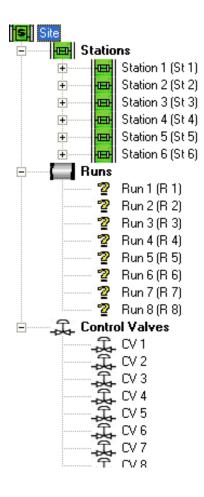
ControlWave® Station Manager Configuration Manual

(For Station Manager Version 4.2.5)





Application Safety Considerations

Protecting Operating Processes

A failure of this application – for whatever reason -- may leave an operating process without appropriate protection and could result in possible damage to property or injury to persons. To protect against this, you should review the need for additional backup equipment or provide alternate means of protection (such as alarm devices, output limiting, fail-safe valves, relief valves, emergency shutoffs, emergency switches, etc.).

System Training

A well-trained workforce is critical to the success of your operation. Knowing how to correctly install, configure, program, calibrate, and trouble-shoot your Emerson equipment provides your engineers and technicians with the skills and confidence to optimize your investment. Energy and Transportation Solutions offers a variety of ways for your personnel to acquire essential system expertise. Our full-time professional instructors can conduct classroom training at several of our corporate offices, at your site, or even at your regional Emerson office. You can also receive the same quality training via our live, interactive Emerson Virtual Classroom and save on travel costs. For our complete schedule and further information, contact the Energy and Transportation Solutions Training Department at 800-338-8158 or email us at education@emerson.com.

ii

Contents

Chapter	1 – Getting Started	1-1
1.1	What is the Station Manager?	1-1
1.2	Before You Begin	1-2
1.3	Installing Station Manager Software	1-3
1.4	Starting Station Manager Software	1-7
	1.4.1 Station Manager IP Startup	1-7
	1.4.2 Station Manager Serial Startup	1-8
	1.4.3 Logging Onto the ControlWave Micro	1-8
1.5	Accessing Pages of the Station Manager Application	1-9
1.6	Entering Data in Fields of the Station Manager Application	1-9
1.7	Setting the Archive Mode	1-10
	1.7.1 Clearing Old Archive Files and Setting Other Archive Parameters Before the Archive Mode	
	1.7.2 Setting the Archive Mode	1-13
1.8	Checking Status Information on the Page	1-15
Chapter	2 – Configuring Inputs and Outputs (I/O Tab)	2-1
2.1	I/O Tab	2-1
2.2	I/O Usage	2-2
	2.2.1 Discrete Inputs (DI)	2-5
	2.2.2 Discrete Outputs (DO)	2-6
	2.2.3 Analog Inputs (AI)	2-6
	2.2.4 Analog Outputs (AO)	2-7
	2.2.5 High Speed Counters (HSC)	2-8
	2.2.6 Multi-variable Transmitters (Transducers)	2-8
	2.2.7 HART Transmitters (6-Run Version ONLY)	2-10
	2.2.8 WirelessHART Transmitters (6-Run Version ONLY)	2-13
2.3	Local DLM	2-16
2.4	Customer Modbus Slave	2-17
	2.4.1 Signal List Grid	2-22
	2.4.2 Floating Point Format	2-23

Contents

ControlWave Station Manager Configuration Manual

D301684X012 February 2023

2	2.5	Ultrasonic Data2-24
		Adding Pens to the Graph for Specific Path Parameters2-33
2	2.6	Load/Save Configuration2-38
		2.6.1 Save Configuration (From RTU)2-45
		2.6.2 Load Configuration (To RTU)2-47
2	2.7	Generic Modbus Master2-49
-	2.8	Time Set/Daylight Saving Time2-54
2	2.9	Virtual Ports2-56
-	2.10	User Defined Screen2-58
2	2.11	Coriolis Modbus Interface (6-Run Version ONLY)2-65
Chapt	er 3	- Configuring Stations, Runs, and Valves (Measurement
		Tab)3-1
3	3.1	Measurement Tab
3	3.2	Status/Configuration3-3
		Calling Up Menus
		Showing / Hiding Sections of the Page
		3.2.1 RTU Configuration Tab (Site Configuration)3-7
		3.2.2 MVT Common Settings Tab (Site Configuration)
		3.2.3 Station Summaries Tab (Site Configuration)
		3.2.4 Historical Configuration Tab (Site Configuration)
		3.2.5 Comm Configuration Tab (Site Configuration)
		3.2.6 Station Configuration Tab (Station Configuration)3-23
		3.2.7 Station Data Tab (Station Configuration)3-30
		3.2.8 Bi-Directional Control Tab (Station Configuration)3-32
		Examples for Configuring Bi-Directional Control
		Example 1 – Bi-Directional Control with One Orifice Measurement Run, Flow Reverses Direction, Non-Isolated Transmitters
		Example 2 – Bi-Directional Control for One Measurement Run, Flow in One Direction, Isolated Transmitters
		Example 3 – Bi-Directional Control For One Measurement Run, Flow Reverses Direction, Isolated Transmitters
		Example 4– Bi-Directional Control for One Measurement Run, Flow Reverses Direction, Isolated SP and Temp Transmitters, Non-Isolated DP Transmitter3-66
		Example 5 – Bi-Directional Control for One Measurement Run, Flow Reverses Direction, Multi-Variable Transmitters (MVTs) Used

iv Contents

3.2.9 General tab	3-77
3.2.10 Alarm Config Tab (Run Configuration)	3-86
3.2.11Linearization Config Tab (Run Configuration)	3-88
3.2.12PV/GQ Averages Tab (Run Configuration)	3-89
3.2.13Orifice Tab (Run Configuration)	3-90
3.2.14Turbine Tab (Run Configuration)	3-95
3.2.15Auto-Adjust Tab (Run Configuration)	3-98
3.2.16Ultrasonic Tab (Run Configuration)	3-101
3.2.17PD Tab (Run Configuration)	3-104
3.2.18 Coriolis Tab (Run Configuration)	3-106
3.2.19Annubar Tab (Run Configuration)	3-109
3.2.20Venturi (Run Configuration)	3-113
3.2.21V-Cone tab (Run Configuration)	3-117
3.2.22Control Valve Config	3-121
3.2.23 Process Values	3-124
3.2.24Al Calibration	3-125
3.2.25Al Maintenance	3-131
3.2.26Site Maintenance	3-133
3.2.27 Station Maintenance	3-135
3.2.28Run Maintenance	3-137
Gas Chromatograph Configuration	3-140
3.3.1 General	3-140
3.3.2 Current Tab (Gas Chromatograph Configuration)	3-146
3.3.3 Component Tab (Gas Chromatograph Configuration)	3-148
3.3.4 Delta Limit Tab (Gas Chromatograph Configuration)	3-150
3.3.5 Normalization Tab (Gas Chromatograph Configuration)	3-151
3.3.6 Custom Tab (Gas Chromatograph Configuration)	3-152
Gas Chromatograph RF Configuration	3-154
Summary Pages	3-157
3.5.1 Measurement Tab	3-157
3.5.2 Measurement Detail Tab	3-157
3.5.3 PID Control Tab	3-159
3.5.4 Meter Run Staging Tab	3-160
3.5.5 Alarm Tab	3-161
Water Vanor Content	3-162

Contents v

3.3

3.43.5

3.6

ControlWave Station Manager Configuration Manual

D301684X012 February 2023

	3.7	List 29	3-164
	3.8	Al Maintenance	3-171
		3.8.1 Al Configuration	3-176
Chap	oter 4	4 – Viewing Historical Data (Historical Tab)	4-1
	4.1	Historical Tab	4-1
	4.2	View Local Archives	4-2
		4.2.1 4.2.1 Selecting Logs to View	4-2
	4.3	View Audit Log	4-3
		4.3.1 Data Storage Parameters dialog box	4-4
		4.3.2 Search Data Collection Criteria dialog box	4-5
	4.4	Local History Analog Log	4-6
	4.5	List 29	4-8
	4.6	Collect Local Logs	4-8
		4.6.1 Selecting Archives or Audit for Collection	4-8
		4.6.2 Collecting a Single Archive or Audit	4-9
		4.6.3 Collecting Multiple Archives	4-11
		4.6.4 Log Collection Parameters	4-11
	4.7	User Configurable Archive	4-14
	4.8	Local History Digital Log	4-15
	4.9	Archive Units Settings	4-17
Char	ator ^l	5 – Configuring Station Control, Meter Run/Valve	Stadina
Cria		d PID Control (Control Tab)	
		·	
	5.1	Control Tab	
	5.2	Local / Remote Settings	
	5.3 5.4	Remote Control Valves Station n	
	5.4	5.4.1 Station <i>n</i> - Overview tab	
		5.4.2 Station <i>n</i> - Configuration tab	
		5.4.3 Station <i>n</i> - Meter Protection Config tab	
		5.4.4 Station <i>n</i> – Local Settings tab	
		5.4.5 Station <i>n</i> – Control Valves tab	
		5.4.6 Enabling Station Control	
		5.4.7 Overriding Remote Setpoint Execution	
	55	Meter Run Stading	5-21

vi Contents

	5.5.1 Clearing and Resetting Meter Staging Errors	5-28
5.6	Process Monitor Control	5-29
	5.6.1 Process Monitor Control Configuration	5-31
5.7	Process Value Monitor	5-35
	5.7.1 Process Value Monitor	5-37
5.8	GP PIDs	5-41
5.9	PID Tuning	5-43
Chapter 6	5 – Math Functions, Sampler (Utilities Tab)6	5-1
6.1	Utilities Tab	.6-1
6.2	Math Function	.6-2
6.3	Sampler	.6-4
6.4	List 29	.6-8
6.5	Standard Recipe Control	.6-8
	6.5.1 Changing the Floating Point Format in the Recipe	5-10
	6.5.2 Saving the Recipe6	5-10
	6.5.3 Recalling a Saved Recipe, and Sending Its Values to the Controller	5-11
6.6	User Defined Screen (legacy)6	5-11
Appendix	C - Measurement Canada Inspection	2-1
Appendix	E - Troubleshooting	E-1
Appendix	M – Modbus Register MapsN	1-1
Appendix	X – Using the External Measurement (XT) Version >	(-1
Index	IND)-1

Contents

ControlWave Station Manager Configuration Manual

D301684X012

February 2023

viii Contents

Chapter 1 - Getting Started

This chapter discusses how to install the Station Manager application and provides some general information about how to use it.

In This Chapter

1.1	What is the Station Manager?	1-1
1.2	Before You Begin	1-2
1.3	Installing Station Manager Software	
1.4	Starting Station Manager Software	1-7
	1.4.1 Station Manager IP Startup	
	1.4.2 Station Manager Serial Startup	1-8
	1.4.3 Logging Onto the ControlWave Micro	1-8
1.5	Accessing Pages of the Station Manager Application	1-9
1.6	Entering Data in Fields of the Station Manager Application	1-9
1.7	Setting the Archive Mode	1-10
	1.7.1 Clearing Old Archive Files and Setting Other Archive F	
	Before You Set the Archive Mode	1-11
	1.7.2 Setting the Archive Mode	1-13
1.8	Checking Status Information on the Page	1-15

1.1 What is the Station Manager?

Station Manager is an application that allows the ControlWave Micro controller to manage up to six (6) natural gas measurement stations that include, among all the stations, up to:

- Maximum of six (6) or eight (8) meter runs, depending on the software version.
- Eighteen (18) control valves.
- Eight (8) PID loops per station for control. You can configure each station for tube switching, and Station Manager supports indication of bi-directional measurement for up to three (3) pairs of stations.
- Three general purpose proportional integral derivative (PID) loops.

The Station Manager application consists of:

- A ControlWave project file (*.PRO) pre-programmed for mult-run multi-station natural gas measurement.
- A customized flash configuration profile (*.FCP) file that configures the ports, audit, and archive parameters of the ControlWave Micro for the Station Manager.
- A TechView session. This includes the TechView session file (*.TVS), associated *.INI files, and a set of HTM menus customized for the Station Manager application. You use these menus to configure the application.

Note: Two versions of Station Manager are available for purchase:

- Station Manager 6-Run supports up to six meter runs and also supports communication to HART® devices, and a Coriolis Modbus interface. Station Manager 6-Run has Measurement Canada approvals; see *Appendix C* for details.
- Station Manager 8-Run supports up to eight meter runs, **without** HART® support, and without the Coriolis Modbus interface.
- The maximum number of meter runs also affects the number of certain components you can define, for example the number of ultrasonic flow meters (UFMs) or gas chromatographs (GC).

1.2 Before You Begin

- You must install the ControlWave Micro controller on site and connect field devices to its I/O modules. For information on ControlWave Micro hardware, see document CI-ControlWave Micro.
- For this version of Station Manager, your ControlWave Micro must have 64MB of SDRAM and 5.60 firmware (or newer).
- For full functionality, your ControlWave Micro should not use the System Controller Module (SCM) used with the ControlWave EFM; you should use a power supply sequence module (PSSM).
- You must install OpenBSI software (5.9 or newer) including TechView on your PC workstation. See the *OpenBSI Utilities Manual (D5081)*, the *BSI_Config User's Manual (D5128)*, and the *TechView User Manual (D5131)* for details on installation requirements.
- For optimum results, you should set the screen resolution on your PC to 1280 x 1024, your screen refresh rate to 60 Hz, and DPI to 96 (normal size).
- You must connect the PC workstation to the ControlWave Micro controller. You can communicate using a serial cable or an Ethernet cable. Cable diagrams are included in *CI-ControlWave Micro*.
- The ControlWave Micro must be running a flash configuration profile file (*.FCP) compatible with Station Manager software. For information on updating FCP files, see *Chapter 5* of the *OpenBSI Utilities Manual* (D5081).
- The ControlWave Micro must be running the ControlWave project (*.PRO) file configured for the Station Manager. See *Chapter 7* of the *OpenBSI Utilities Manual* (D5081) for information on downloading a ControlWave project (*.PRO) file.
- Your Station Manager application must be properly licensed; if you purchased a license dongle, you must run the Application Licensing tool and install the dongle in your USB port. You must then reset

1-2 Getting Started Issued: February 2023

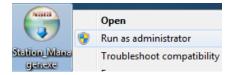
the ControlWave and perform a cold start. See the *ControlWave Designer Programmer's Handbook* (D5125) for more information.

Note: If you ordered your ControlWave Micro with Station Manager software pre-installed, the FCP and PRO files are already loaded when the unit ships from the factory.

1.3 Installing Station Manager Software

Notes:

- Station Manager runs on the following Windows operating systems:
 Windows XP and Windows 7
- All Station Manager users must have modify privileges to the \ProgramData\Bristol\StationManager\ folder.
- 1. Right-click on the Station Manager application's icon and choose **Run as Administrator.**



2. The Station Manager Installer Setup screen opens; allow it to run on its own.

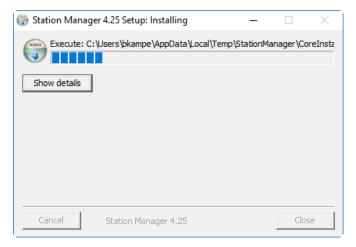


Figure 1-1. Station Manager Installer Setup Screen.

3. Click **Next** on the welcome screen of the installer.



Figure 1-2. Station Manager Installer – Welcome Screen

4. You can look at the Read Me file to view information about this release. Use the scroll bar to view portions not currently on screen. Click **Next** to proceed.

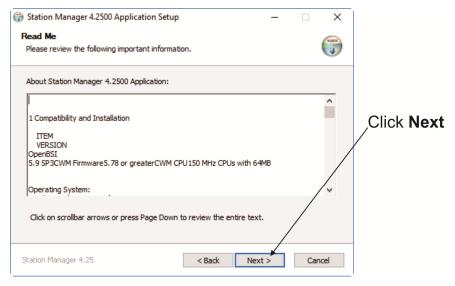


Figure 1-3. Station Manager Installer – Read Me

5. Review the license agreement and click the **I Agree** button to proceed with the installation or **Cancel** to abort the installation process

1-4 Getting Started Issued: February 2023

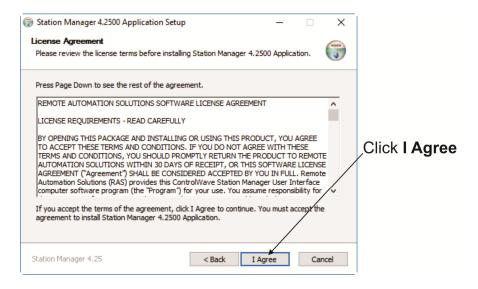


Figure 1-4. License Agreement page

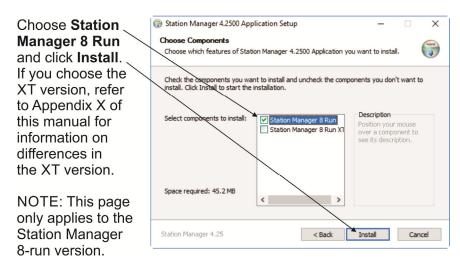


Figure 1-5. Selecting Application (8-Run Version ONLY)

The installation begins.

6. At the completion of the installation, click **Next**.

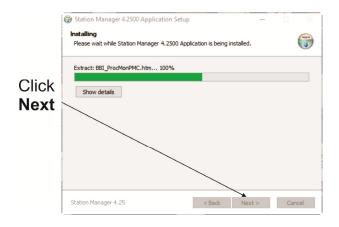


Figure 1-6. Installation Completion

7. Now click **Finish** to exit the installer.



Figure 1-7. Exit the Installer

1-6 Getting Started Issued: February 2023

1.4 Starting Station Manager Software

You start the Station Manager software by invoking the proper TechView file. There are two ways to do this:

Starting Station Manager from the Start Programs Menu

For an IP connection, click: Start > Programs > StationManager > SM 4 25 IP tvs

For a serial connection, click: Start > Programs > StationManager > SM_4_25_Serial_tvs

Starting Station Manager from an icon

From a desktop icon, similar to those below, or from the \Station_Manager\ SM_4_0\SUPPORT folder, double-click the IP or serial TVS file, depending upon your type of connection.





Figure 1-8. Station Manager TVS file icons

For IP communication, see Section 1.4.1 Station Manager IP Startup.

For serial communication see *Section 1.4.2 Station Manager Serial Startup*.

1.4.1 Station Manager IP Startup

Once you start the TVS file for IP operation, TechView opens the Runtime Configuration Parameters dialog box:

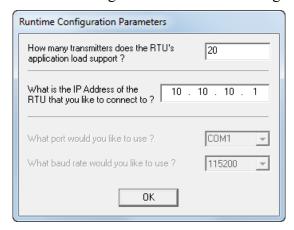


Figure 1-9. IP Runtime Parameters

- 1. Leave the number of transmitters at the default value.
- **2.** Enter the IP address of the ControlWave Micro IP port to which you are connected.
- 3. Click OK.
- **4.** Log onto the ControlWave Micro as described in *Section 1.4.3*.

1.4.2 Station Manager Serial Startup

Once you start the TVS file for serial operation, TechView opens the Runtime Configuration Parameters dialog box:

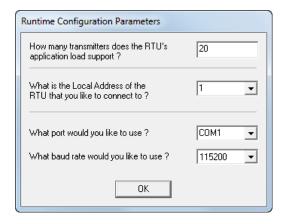


Figure 1-10. Serial Runtime Parameters

- 1. Leave the number of transmitters at the default of 12.
- **2.** Enter the BSAP local address of the ControlWave Micro to which you are connected.
- 3. Select the serial communication port on the PC which you are using to communicate with the ControlWave Micro.
- **4.** Select the baud rate on the serial communication line.
- 5. Click **OK**.
- **6.** Log onto the ControlWave Micro as described in *Section 1.4.3*.

1.4.3 Logging Onto the ControlWave Micro

In the SignOn to RTU dialog box, enter a **Username / Password** combination that allows full access to the ControlWave Micro, then click the **SignOn** button.



Figure 1-11. Logging onto the ControlWave Micro

1-8 Getting Started Issued: February 2023

1.5 Accessing Pages of the Station Manager Application

To access various pages of the Station Manager application, click on the tab for the function you want to configure, then click on the buttons which appear on that tab. By default, the I/O tab appears first.

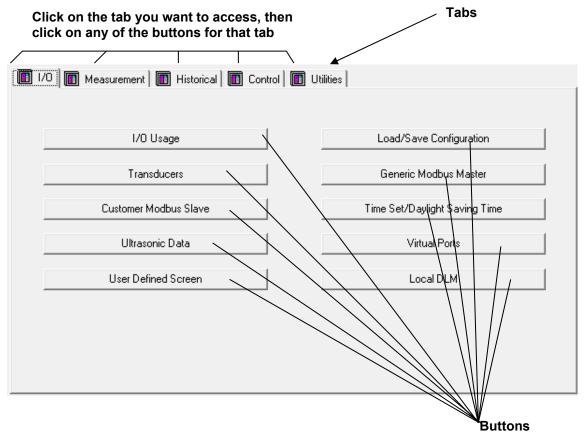


Figure 1-12. Tabs and Buttons in Station Manager

The next several chapters describe the functions available on each tab of the application.

You need not configure all the features of the application; only those that you need for your particular purpose and measurement needs.

1.6 Entering Data in Fields of the Station Manager Application

Whenever you select a field and enter data, or select from a drop-down menu, you must press the **[Enter]** key to confirm and save your choice.

To exit a field without entering data, press the [Esc] key.

1.7 Setting the Archive Mode

When you first start Station Manager, you may see a warning indicating that the archive mode is not set (see *Figure 1-13*).



Figure 1-13. Archive Mode Not Set Warning

This warning tells you that until archiving is configured, Station Manager cannot log data into archives.



You cannot mix older archive files with new archive files or change archive file parameters after archive collection begins:

- If you've never configured archives, and you plan to use the default archive mode (Push Down) and no archives exist on this PC workstation or in the ControlWave Micro, you can proceed to set the archive mode as described in Section 1.7.2 Setting the Archive Mode.
- If old archives already exist, and/or you plan to use Wrap Around mode, or you want to change archiving parameters, you must first follow the instructions in Section 1.7.1 Clearing Old Archive Files and Setting Other Archive Parameters Before You Set the Archive Mode.

You have three choices when you see this warning. Field Description Click to Hide During initial configuration, the warning doesn't really matter, so you can click here to hide the warning. The warning will not be present until you open another TechView screen or restart TechView. Check this box to disable the warning for one hour, or Disable warning for one hour until TechView is restarted, after which the warning returns. Click to Set Archives Click this button to set the archive mode. See Section 1.7.2, below.

1-10 Getting Started Issued: February 2023

1.7.1 Clearing Old Archive Files and Setting Other Archive Parameters Before You Set the Archive Mode

If you plan to use the default archive mode (Push Down) with default archive parameters, and no older archive files exist on your PC workstation or in the ControlWave Micro, you can skip this section and proceed to *Section 1.7.2*.



The instructions in this section delete archive data files from your ControlWave Micro and your OpenBSI workstation. Be sure you follow the steps carefully, and in the order shown, so you can save those archives, if you need to preserve them.

You cannot mix older archive files with different storage methods or archive parameters with new archive files. Therefore, if older archive files exist on your PC workstation, or you plan to use Wrap Around mode for your archives or you want to change archive parameters, you must follow these steps in the order shown, first:

Clearing Old 1.
Archive Files
from Station
Manager AND
the ControlWave
Micro

1. If the ControlWave Micro holds existing archive files you have not yet collected, follow the instructions in *Chapter 4* of this manual, to collect those archives.

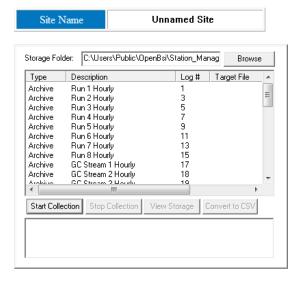


Figure 1- 14 Collect Local Archives

- 2. To preserve the archive files you just collected,(and any other archives files collected by Station Manager) go to Station Manager's Log area, and copy those files to a different location. By default, the log area is located in the path \OpenBSI\Station Manager\Logs.
- **3.** Now that you have a safe copy of the log files elsewhere (Step 2), delete all files in the \Station Manager\Logs area.
- 4. Cold start the ControlWave Micro. To do this, click Start > Programs > OpenBSI Tools > Debugging Tools > Reset ControlWave then log into the unit, and click the Cold Start button. When the status message shows "Restart Complete," click Close.

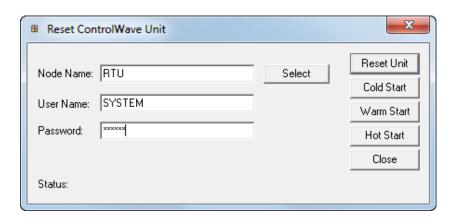


Figure 1-15. Reset ControlWave Unit

5. In TechView, clear all archives from the ControlWave Micro. To do this, click Operations > Clear History. Then select Clear All Archive Files and click Start. Answer the prompts to perform the deletion, and when the status message says "Task Complete," click Exit to close the Clear RTU History utility.

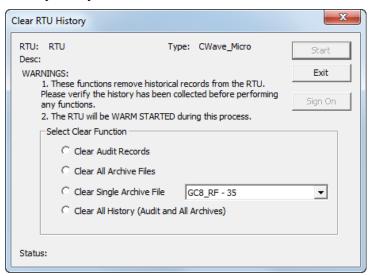


Figure 1-16. Clear RTU History

Changing Archive Parameters

Now that you've deleted all existing archive files you can optionally change archive parameters for Enron Modbus collections. These are set in List 20 in the ControlWave Station Manager application. You can call List 20 up using DataView; right click on the RTU icon in TechView, choose **DataView** from the pop-up menu. Once DataView opens, click the Remote List icon and enter 20 in the Remote List Properties dialog box and click **OK**; this opens list 20. You can then click on a value to change it.

1-12 Getting Started Issued: February 2023

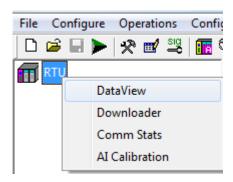


Figure 1-17. – Calling Up DataView

You can change archive parameters through this list. For example, you can change date formats (Parameter 6) for archive entries here through the MB.ENRON_DTFORMAT variable. For details on these different parameters, see the ACCOL3 function block online help in ControlWave Designer for the CUSTOM function block and look up Enron Modbus.

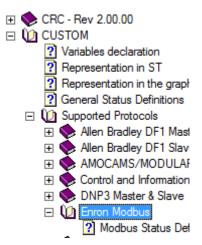


Figure 1-18. Enron Modbus Icon in ACCOL3 Function Block Help

You can now select the archive mode as described in *Section 1.7.2 Setting the Archive Mode* and begin to collect new archives.

1.7.2 Setting the Archive Mode

You may select one of two modes for the way archived data is stored for retrieval via Enron Modbus.

Push Down – This is the default mode. In this mode a request for archive record 1 returns the record with the oldest local sequence number and the oldest timestamp. A request for the highest archive record number (840 for the hourly archives, 62 for the daily archives) returns the record with the newest local sequence number and the most recent timestamp.

Wrap Around – In this mode, a request for archive record 1 returns the record in the archive with the newest data. A request for the highest record number returns the record in the archive with the oldest data.

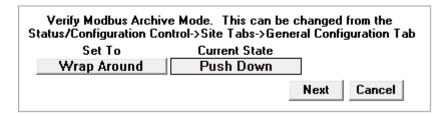


Figure 1-19. Verify Modbus Archive Mode selection

The Current State shows the currently active archive mode. To toggle that to the other mode, click the desired Set To mode button. After you have selected the Enron Modbus archive retrieval mode, click Next. You must now select the archive storage mode. The selections are Push Down and Wrap Around, as defined above.

If the archive mode is left as **Not Set**, no archive records will be generated. From this selection screen, once you select a mode, the change will take effect immediately and cannot be changed until the ControlWave Micro performs a cold start.

After selecting the archive mode, click **Done** to close this window.

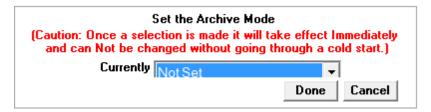


Figure 1-20. Setting the Archive Storage Mode selection

1-14 Getting Started Issued: February 2023

1.8 Checking Status Information on the Page

On the top of most pages in the Station Manager application is the title block. This provides certain status information about Station Manager operation.

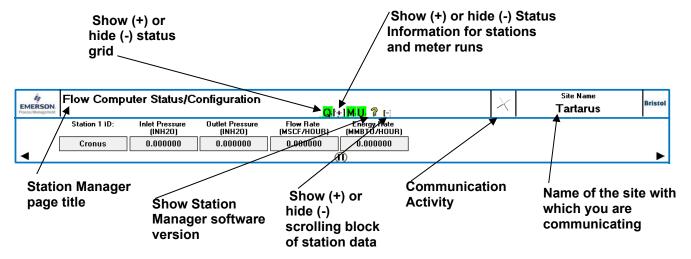


Figure 1-21. Title Block at Top of Screens

The title block shows the following:

- The title of the current Station Manager page
- The Station Manager software version (you can show/hide this by clicking the question mark ② icon.
- The name of the site to which you are communicating.
- A communication activity "X" which rotates if communications are good. If communication is lost it shows a red frowning face.

In addition, if you click the "+" between the "Q" and "M" you can view status information on all stations and meter runs.

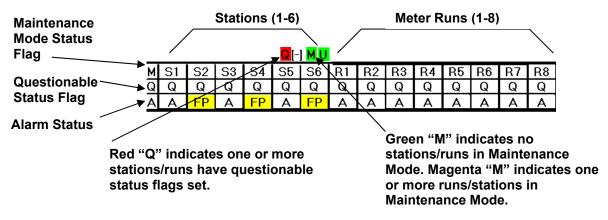


Figure 1-22. Status Grid

The Q and M icons just above the grid summarize the system status:

- A red "Q" indicates one or more runs/stations have a questionable status.
- A green "M" indicates no stations or runs are in Maintenance Mode.
- A magenta "M" indicates at least one run/station is in Maintenance Mode.

The U icons just above the grid shows the status of communication with ultrasonic flow meters (UFMs).

- A green "U" indicates communications with UFMs are good.
- A red "U" indicates communications with at least one UFM have failed.

This icon only shown in Station Manager 8-Run.

Table 1-1 shows the meaning of the different items in the status grid.

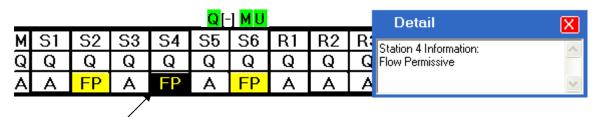
Table 1-1 Status Grid Icons

Line	Stations (S1 to S6)	Meter Runs (R1 to R8)
M (Maintenance)	Sn = Station not in Maintenance Mode (White background)	Rn = Run not in Maintenance Mode(White background)
	Sn = Station in Maintenance Mode (Magenta background)	Rn = Run in Maintenance Mode (Magenta background)
Q (Questionable)	Q = Not questionable -OK (White background)	Q = Not questionable -OK (White background)
	Unspecified questionable (Q) data issue for this station.(Red background)	Unspecified questionable (Q) data issue for this run. (Red background)
	DP = Differential pressure (DP) data is questionable for this station. (Red background)	DP = Differential pressure (DP) data is questionable for this run. (Red background)
	SP = Static pressure (SP) data is questionable for this station. (Red background)	SP = Static pressure (SP) data is questionable for this run. (Red background)
	FT = Flowing temperature (FT) data is questionable for this station. (Red background)	FT = Flowing temperature (FT) data is questionable for this run. (Red background)
	= Multiple (**) questionable data issues for this station. (Red background)	= Multiple (**) questionable data issues for this run. (Red background)
A (Alarm)	OK. No alarm reported. (White background)	A = OK. No alarm reported. (White background)
	FP = Flow Permissive (FP) Mode active for this station.(Yellow background	` '
	DCP = Direction Change Permissive (DCP)	DCP = Direction Change Permissive

1-16 Getting Started Issued: February 2023

Line	Stations (S1 to S6)	Meter Runs (R1 to R8)
	Mode active for this station. (Yellow background)	(DCP) Mode active for this run. (Yellow background)

If an item in the status grid has a non-white background color, you can move your mouse over that location to view an explanatory Detail message box.



Mouse cursor here

Figure 1-23. Viewing the Detail Message

Note: If you make changes to entries on a Station Manager screen, the Detail pane must be visible for screen updates to occur.

Chapter 2 – Configuring Inputs and Outputs (I/O Tab)

This chapter discusses configuring the Station Manager application to accept field inputs and outputs (I/O). This is accomplished from the Station Manager's I/O tab.

In This Chapter

2.1	I/O Tab	2-1
2.2	I/O Usage	
	2.2.1 Discrete Inputs (DI)	
	2.2.2 Discrete Outputs (DO)	
	2.2.3 Analog Inputs (AI)	
	2.2.4 Analog Outputs (AO)	2-7
	2.2.5 High Speed Counters (HSC)	2-8
	2.2.6 Multi-variable Transmitters (Transducers)	
	2.2.7 HART Transmitters (6-Run Version ONLY)	2-10
	2.2.8 WirelessHART Transmitters (6-Run Version ONLY)	2-13
2.3	Local DLM	
2.4	Customer Modbus Slave	2-17
	2.4.1 Signal List Grid	2-22
	2.4.2 Floating Point Format	
2.5	Ultrasonic Data	
	Adding Pens to the Graph for Specific Path Parameters	2-33
2.6	Load/Save Configuration	
	2.6.1 Save Configuration (From RTU)	
	2.6.2 Load Configuration (To RTU)	
2.7	Generic Modbus Master	2-49
2.8	Time Set/Daylight Saving Time	2-54
2.9	Virtual Ports	
2.10	User Defined Screen	
2.11	Coriolis Modbus Interface (6-Run Version ONLY)	2-65

2.1 I/O Tab

Click the I/O tab to display the various I/O options you can configure. We'll discuss each of these in the sections that follow.

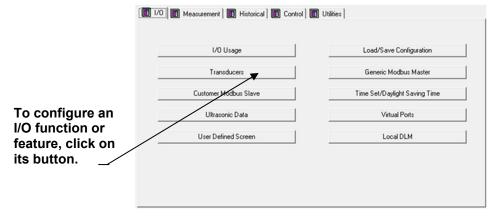


Figure 2-1. I/O Tab in Station Manager

2.2 I/O Usage

When you click the WOUsage button on the I/O tab, the I/O Usage page displays a graphical representation of the ControlWave Micro, showing each of the I/O modules detected by the Station Manager. If Station Manager cannot detect a particular module or an I/O slot is empty, its graphic shows "Not Present."

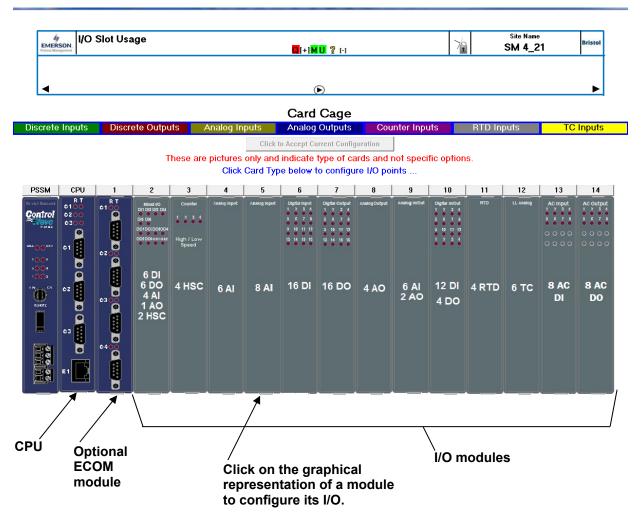


Figure 2-2. I/O Usage Screen Showing I/O Modules Detected

When you move the cursor over the CPU module, an Expansion Communication (ECOM) module, or any I/O module, you'll see a yellow box on the screen. To configure I/O, follow these steps:

- 1. From the I/O tab, click the I/O Usage button.
- 2. Position the cursor over the I/O module you want to configure; a yellow box indicates the cursor position on any configurable module.

3. Click on the module you want to configure. This opens a screen showing the possible choices for I/O. The Mixed I/O Module shows multiple types of I/O (see *Figure 2-3*).

Go Back to IO Page

Live is actual value and input, while PV is value in use.

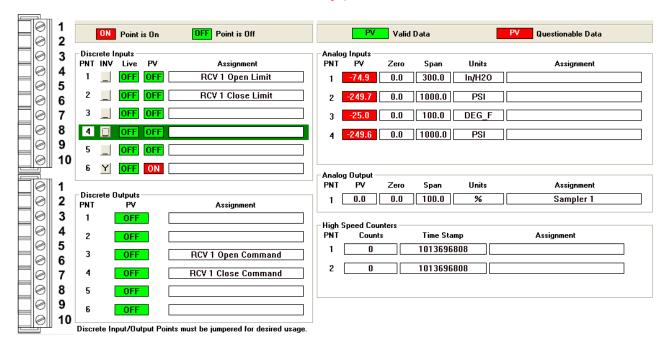


Figure 2-3. Mixed I/O Module

4. Click in the **Assignment** field, and use the drop-down menu to select the function in the Station Manager that you want to connect to a particular I/O point. For example, if remote control valve 1's open limit switch field input is connected to discrete input 1, select **RCV 1 Open Limit** for the **Assignment**. (See *Figure 2-5*.) Press the [Enter] key to confirm and save your choice.

Note: You may have noticed that when the cursor is left hovered over an IO point, the graphics to the left display the applicable connection points for direct and remote IO (see *Figure 2-4*).

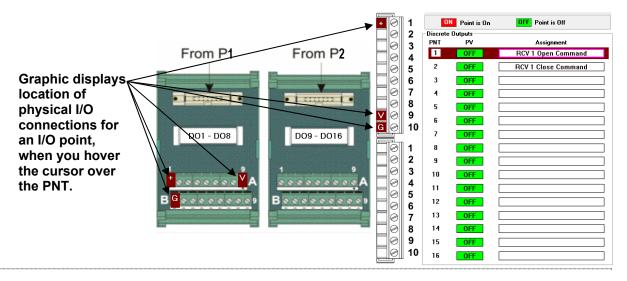


Figure 2-4. Connection Points for Physical I/O

5. Continue assigning Station Manager functions to their applicable field I/O points. See the sub-sections below for information on the different I/O module types.

Notes:

- Only assign a given function to one input I/O point. If you subsequently assign the same function to a different input point,
 Station Manager re-assigns it to your newer choice and disconnects it from the earlier choice.
- Depending upon your particular configuration, you might not use all the inputs or outputs in a particular meter run or station.
- If you have I/O that comes from an ultrasonic flow meter or a multivariable transmitter that communicates with the Station Manager through a communication port, instead of an I/O module, you configure it from the UFM or Transducer pages, discussed later in this chapter.
- To return to the I/O Usage page from any page underneath it, click the Go Back to IO Page button.

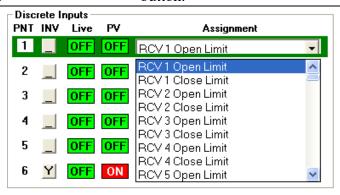


Figure 2-5. Assigning Discrete Input 1

Viewing Communication Port Configuration

To view the current port configuration, position the cursor over the CPU or ECOM module (see *Figure 2-2*) and click; this displays the current configuration of ports on the CPU or ECOM module. To alter the configuration, you need to edit the flash configuration profile for the ControlWave Micro. **Note:** Changes made to the flash configuration profile are not reflected within Station Manager screens until you restart the ControlWave Micro.

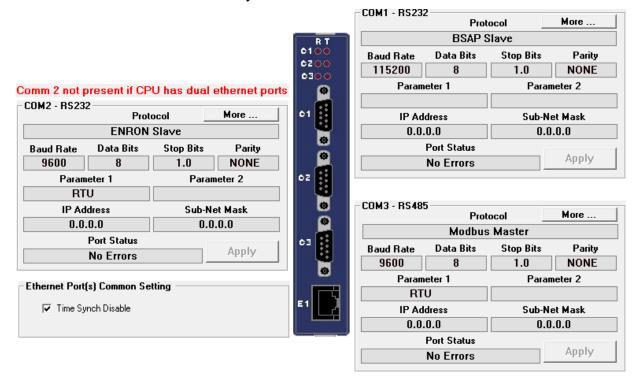


Figure 2-6. Viewing Configuration of Ports

2.2.1 Discrete Inputs (DI)

Issued: February 2023

Discrete inputs (DIs) include the following fields:

Field	Description
PNT	This read-only field displays the I/O point number. The number varies depending upon the type of I/O module.
INV	If you check this box for a given I/O point, Station Manager inverts the real-live field value and uses the inverted value as the process value. For example, if the Live value of discrete I/O point 5 is OFF , and INV is checked for that point, PV is set ON and that's what Station Manager uses for control and processing.
Live	This read-only field shows the actual ON/OFF status of this discrete input point.
	Points that are ON show in red.
	Points that are OFF show in green. OFF

PV This read-only field shows the value of the production variable (PV) used in Station Manager. This may the Live value unless you invert the input using		
	Points that are ON show in red.	
	Points that are OFF show in green.	
Assignment	Use the drop-down menu to select the function within	
	Station Manager that corresponds to this discrete input.	
	Press [Enter] to save your selection.	

2.2.2 Discrete Outputs (DO)

Discrete outputs (DOs) include the following fields:

Field	Description
PNT	This read-only field displays the I/O point number. The number varies depending upon the type of I/O module.
PV	This read-only field shows the value of the process variable (PV) Station Manager will output to the field device.
Assignment	Use the drop-down menu to select the function within Station Manager that corresponds to this discrete output. Press [Enter] to save your selection.

2.2.3 Analog Inputs (AI)

Analog inputs (AIs) include the following fields:

Field	Description
PNT	This read-only field displays the I/O point number. The number varies depending upon the type of I/O module.
PV	This read-only field shows the calculated value of the analog input process variable (PV) based on the configured Zero and Span .
	If the value shows in red, the value is questionable
	-25.0 This could indicate no connection, a communication problem with the field device, data timeout or some other problem that could cause the value to be invalid.
Zero	Enter the value that the process variable should read when the Al field input is 4mA. Press [Enter] to save your selection.
Span	Enter the value that, when added to the Zero value, represents what the process variable should display when the Al field input is 20mA. Press [Enter] to save your selection.

Issued: February 2023

	For example, if Zero is 5 and Span is 20, then:), then:
	If the AI field input is: 4mA 20mA 12mA	PV will 5 25 15	l be:
Units	The engineering units for this process variable. Click in the field and select the proper units from the drop-down menu. Press [Enter] to save your selection. Units		
Assignment	Use the drop-down menu to set Station Manager that correspor Press [Enter] to save the select	nds to this	

2.2.4 Analog Outputs (AO)

Analog outputs (AOs) include the following fields:

Field	Description	
PNT	This read-only field displays the I/O point number. The number varies depending upon the type of I/O module.	
PV	This read-only field shows the calculated value of the analog output process variable (PV) based on the configured Zero and Span . This value will be sent to the field device.	
Zero	Enter the value that the process variable should read when the AO field output is 4mA. Press [Enter] to save your selection.	
Span	Enter the value that, when added to the Zero value, represents what the process variable should display when the AO field output is 20mA. Press [Enter] to save your selection. For example, if Zero is 5 and Spar is 20, then:	
	If PV is: The AO field output is: 4mA	
	25 20mA 10 8mA	
Units	The engineering units for this process variable. Click in the field and select the proper units from the drop-down menu. Press [Enter] to save your selection.	
Assignment	Use the drop-down menu to select the function within Station Manager that corresponds to this analog output. Press [Enter] to save the selection.	

2.2.5 High Speed Counters (HSC)

High speed counters (HSC) include the following fields:

Field	Description
PNT	This read-only field displays the I/O point number. The number varies depending upon the type of I/O module.
Counts	This read-only field displays the number of counts since the last power cycle.
Time Stamp	This read-only field displays the timestamp of the last sample from the HSC module. The timestamp is the number of milliseconds since boot.
Assignment	Use the drop-down menu to select the function within Station Manager that corresponds to this high speed counter input. Press [Enter] to save the selection.

2.2.6 Multi-variable Transmitters (Transducers)

If you have one or more multi-variable transmitters, click the Transducers button on the top of the I/O tab to call up the Transducers page.

The following MVTs have been tested with Station Manager:

- Rosemount 3095
- Rosemount 4088A
- Rosemount 4088B
- Bristol 3808

The Transducers page shows the first three multi-variable transmitters (MVTs) for the station; if you want to view a different group of three MVTs, click the tab corresponding to the range of MVTs you want to see.

Issued: February 2023

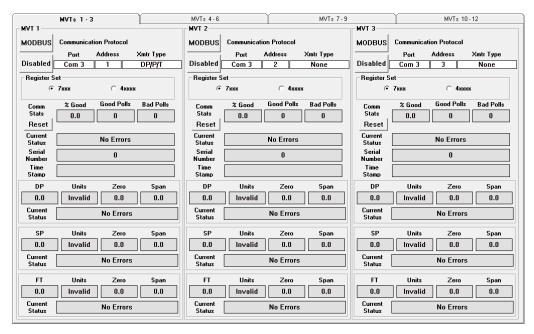


Figure 2-7. Transducers Page (Multi-Variable Transmitters)

Each MVT includes the following fields:

Field	Description
Enabled/Disabled	Click this button to enable communication from this MVT to the Station Manager.
Communication Protocol (BSAP/MODBUS)	Click the BSAP/MODBUS button to toggle the method used to communicate with this MVT between BSAP protocol and MODBUS protocol.
Port	Use the dropdown menu to specify the ControlWave Micro serial communication port which connects to this MVT. Press [Enter] to save the selection.
Address	Enter the address of the MVT here. Press [Enter] to save the selection.
Xmtr Type	Use the drop-down menu to select the type of data coming from this MVT. Choose either:
	Type: Data from this type: GP/T gage pressure and temperature DP/P/T differential pressure, static pressure, and temperature T temperature Press [Enter] to save your selection.
Register Set	This field applies only to MODBUS communication. Click either 7xxx or 4xxxx to select the MODBUS register set used by this MVT.
Comm Stats	
% Good	This read-only field shows the percentage of successful communication transactions with this MVT.

This read-only field shows the number of good poll messages in communications with this MVT.	
This read-only field shows the number of bad poll messages in communications with this MVT.	
This button resets the communication statistics in the %Good , Good Polls , and Bad Polls fields.	
These read-only fields display the most recent status messages from this MVT.	
This read-only field shows the tag name from this MVT. (BSAP only)	
This read-only field shows the serial number from this MVT. (MODBUS only)	
This read-only field shows the time stamp of the most recent value received from this MVT.	
This read-only field shows the most recent differential pressure reading from this MVT.	
This read-only field shows the most recent static pressure reading from this MVT.	
This read-only field shows the most recent temperature reading from this MVT.	
This read-only field shows the engineering units for this variable.	
This read-only field shows the value for this variable when the MVT receives a 4mA field input.	
This read-only field shows the value that, when added to the Zero value, represents what the process variable should display when the field input to the MVT is 20mA.	

2.2.7 HART Transmitters (6-Run Version ONLY)

To configure wired HART transmitters, click on the graphical representation of the HART/BTI module in the I/O Usage screen. This calls up the HART Configuration page.

Issued: February 2023

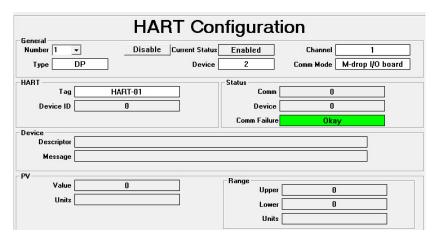


Figure 2-8. HART Configuration

Field	Description		
General			
Number	Select the HART transmitter number (from 1 to 18).		
Enable/Disable	Click Enable to activate communications with the transmitter or click Disable to turn off communications with the transmitter. When the communication state changes, the Current Status field updates to show the change, and the label on the button toggles to the opposite title. After disabling the transmitter, a cold/warm start of the CPU is necessary to stop the continuous polling of the transmitter.		
Туре	Shows the transmitter type: DP = Differential Pressure SP = Static Pressure FT = Flowing Temperature MVT = Multi-Variable Transducer		
Device	If HART communications is through the HART/BTI module, specify the I/O slot in the ControlWave Micro that holds the HART/BTI module. Only slots 1 and 2 are supported. If HART communication is through a communication port, specify the ControlWave Micro COM port number used for HART.		
Channel	Specify the channel number on the HART/BTI module associated with the transmitter.		
Comm Mode	Select whether HART transmitter data comes from the HART/BTI module or from a COM port.		
HART	·		
Tag	Shows the tag name read from the HART transmitter.		
Device ID	Shows the Device ID read from the HART transmitter.		
Status			
Comm	Shows the HART communication status code. Valid codes are shown in <i>Table 2-1</i> .		

Table 2-1. HART Communication Status Codes

Binary	Dec	Hex	Description
10000000	28	0x80	When this bit is clear the remaining bits represent the command status response from the device. When this bit is set it indicates there is a communications error defined by the remaining bits.
01000000	64	0x40	The parity of one or more of the bytes received by the device was not odd.
00100000	32	0x20	At least one byte of received data was not processed fast enough and was overwritten before it could be read.
00010000	16	0x10	An expected stop bit for one or more bytes received was not detected.
00001000	8	0x08	The longitudinal parity calculated by the device did not match the check byte at the end of the message.
00000100	4	0x04	Reserved – set to 0.
0000010	2	0x02	The message was too long for the receive buffer of the device.
0000001	1	0x01	Reserved – set to 0.

Device	Shows the status code for the HART transmitter.
	Valid codes are in <i>Table 2-2</i> .

Table 2-2. HART Device Status Codes

Binary	Dec	Hex	Description
10000000	128	0x80	The device detected a serious error or failure that compromises device operation.
01000000	64	0x40	An operation was performed that changed the device's configuration.
00100000	32	0x20	A power failure or device reset has occurred.
00010000	16	0x10	More status information is available; use command48 to read the additional status information.
00001000	8	0x08	The loop current is being held at a fixed value and is not responding to process variations.
00000100	4	0x04	The loop current has reached its upper (or lower) endpoint limit and cannot increase (or decrease) any further.
0000010	2	0x02	A device variable not mapped to the PV is beyond its operating limits.
0000001	1	0x01	The primary variable is beyond its operating limit.

Comm Failure	Shows "Okay" in green when communications
	are working or "FAIL" in red when there is a
	communication failure with the HART

	transmitter.
<u>Device</u>	
Descriptor	The descriptive text for this HART transmitter.
Message	The message text read from the HART transmitter.
PV	
Value	Shows the process value read from the HART transmitter.
Units	Shows the engineering units read from the HART transmitter for the given process value.
Range	
Upper	Shows the upper range for the process variable read from the HART transmitter.
Lower	Shows the lower range for the process variable read from the HART transmitter.
Units	Shows the engineering units for the process variable read from the HART transmitter.

2.2.8 WirelessHART Transmitters (6-Run Version ONLY)

To configure wireless *Wireless*HART transmitters, click on the graphical representation of the IEC62591 module in the I/O Usage screen. This calls up the Wireless HART Configuration page.

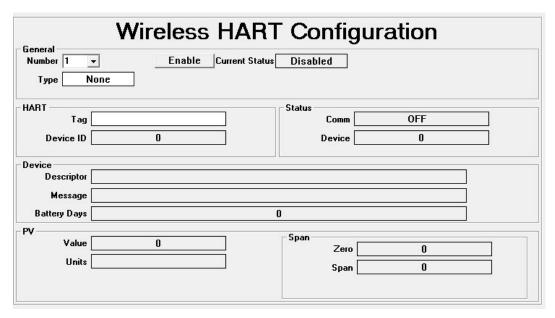


Figure 2-9. Wireless HART Configuration

Field	Description
<u>General</u>	

Number	Select the <i>Wireless</i> HART transmitter number (fro to 18).	
Enable/Disable	Click Enable to activate communications with the transmitter or click Disable to turn off communications with the transmitter. When the communication state changes, the Current Status field updates to show the change, and the label on the button toggles to the opposite title.	
Туре	Shows the transmitter type: DP = Differential Pressure SP = Static Pressure FT = Flowing Temperature MVT = Multi-Variable Transducer	
<u>HART</u>		
Tag	Shows the tag name read from the <i>Wireless</i> HART transmitter.	
Device ID	Shows the Device ID read from the <i>Wireless</i> HART transmitter.	
<u>Status</u>		
Comm	Shows the <i>Wireless</i> HART communication status code. Valid codes are listed in <i>Table 2-1</i> .	
Device	Shows the status code for the <i>Wireless</i> HART transmitter. Valid codes are listed in <i>Table 2-2</i> .	
<u>Device</u>		
Descriptor	The descriptive text for this WirelessHART transmitter.	
Message	The message text read from the <i>Wireless</i> HART transmitter.	
Battery Days	Shows the number of days of battery life remaining.	
PV		
Value	Shows the process value read from the <i>Wireless</i> HART transmitter.	
Units	Shows the engineering units read from the WirelessHART transmitter for the given process value.	
<u>Span</u>		
Zero	Shows the lowest value for the process variable read from the <i>Wireless</i> HART transmitter.	
Span	Shows the value which, when added to the Zero value, represents the full range for the process variable read from the <i>Wireless</i> HART transmitter.	

Notes:

- You must specify the Network ID and Join Key for the wireless network in a text file called whart_key.ini. The first four lines of the file represent the Join Key, the fifth line is the Network ID. Once you download the whart_key.ini file into the ControlWave Micro flash, Station Manager reads the file and then deletes it for added security. You use the Flash File Access utility in OpenBSI to download the whart_key.ini file into the ControlWave Micro flash.
- The information from the ini file is retained internally across cold starts so if you ever need to change these parameters, you must download a new whart key.ini file.

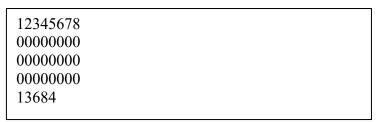


Figure 2-10. Sample WHART KEY.INI file

2.3 Local DLM

Notes:

- The local Data Line Monitor (DLM) provides details about low-level communication messages sent through a selected serial port used by the Station Manager.
- Typically, you would only use the local DLM if you are a very advanced user and need to perform communication troubleshooting for a particular port.
- The local DLM only displays the first 80 characters of a message.
- The local DLM only captures messages approximately every half second, therefore, it can miss some messages.

Click the Local DLM button on the I/O tab to activate the Data Line Monitor function. The DLM includes the following fields:

Field	Description
Monitor Port	Use the dropdown menu to select the ControlWave Micro serial communication port you want the DLM to monitor. Press [Enter] to save the selection. Note: After you collect the data, if you select "None" for the monitor port, you can copy data from the window to the clipboard. You can then paste this data into another file for off-line review.
TX Data	This read-only field shows the most recent message transmitted through this port.
RX Data	This read-only field shows the most recent message received through this port.
window	The window shows successive messages detected by the DLM. Most recent messages appear at the top; you can use the scroll bar to adjust the window to show earlier messages.

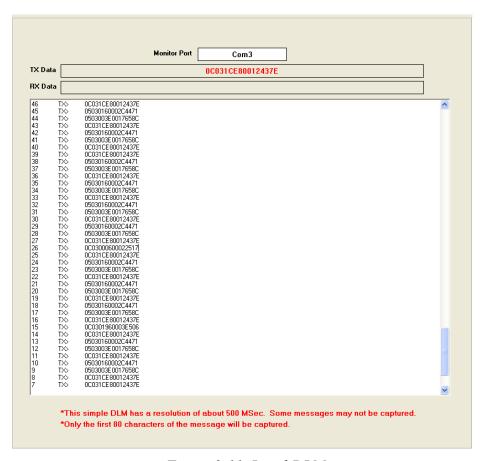


Figure 2-11. Local DLM

2.4 Customer Modbus Slave

Station Manager supports up to five customer Modbus slave sessions you can configure for the controller. The Station Manager controller then serves as a Modbus slave to those devices.

Click the Customer Modbus Slave pages. button on the I/O tab to bring up the Customer Modbus Slave pages.

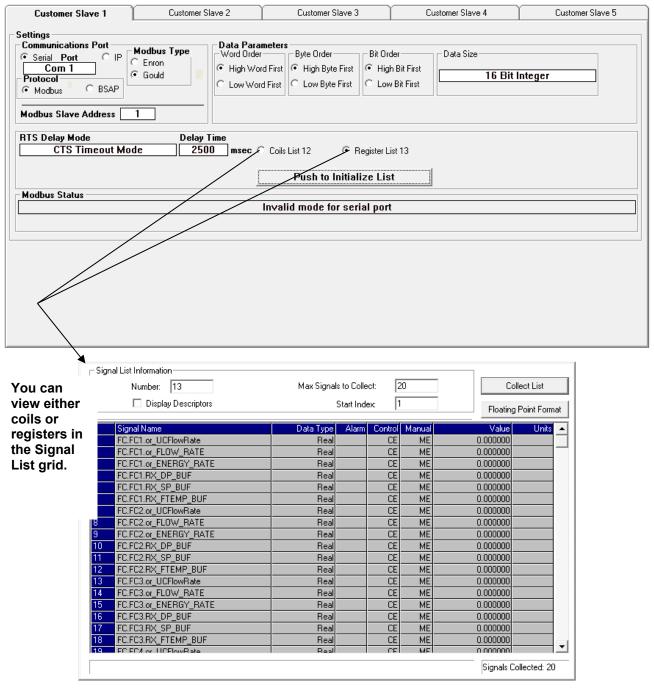


Figure 2-12. Customer Slave Page

These pages include the following fields:

Field	Description
Settings	
Communications Port	Modbus communications can use either serial or IP communications.
Serial	Click the Serial button to use serial Modbus communication, and specify the port you want to use. (See Port).

Field	Description		
Port	Specify the ser	ial communication port on the	
. •	ControlWave N	Alicro you want to use for Modbus slave n. Use the following code:	
	Enter this:	To select this serial CW Micro port:	
	1 2	COM1 COM2	
	3	COM3	
	4	COM4	
	5	COM5	
	6	COM6	
	7	COM7	
	8	COM8	
	9	COM9	
	10	COM10	
	11	COM11	
	Press [Enter] t	to save the selection.	
IP	Click the IP button to use IP Modbus (Open Modbus) communication.		
Protocol			
Modbus	Click this button to configure Modbus communication.		
BSAP	Do NOT choose this when configuring Modbus communication.		
Modbus Slave Address	Enter the Modbus slave address. If the local slave address you enter has already been assigned to either the SCADA Enron Modbus slave interface, or any of the other Customer Modbus Slave sessions, you will see a Loc Addr Conflict message. Modify the Modbus Slave Address as required to resolve the conflict.		
Modbus Type			
Enron	If you want to communicate using Enron Modbus, click this button.		
Gould	If you want to communicate using Gould Modbus, click this button.		
Data Parameters			
Word Order	order used by	ata word order to match the data word the Modbus Master that with this Modbus Slave.	

Field Description			
High Word First	Click this to specify that the high word is first.		
Low Word First	Click this to specify that the low word is first.		
Byte Order Choose the data byte order to match the data byte order used by the Modbus Master that communicates with this Modbus Slave.			
High Byte First	Click this to specify that the high byte is first.		
Low Byte First	Click this to specify that the low byte is first.		
Bit Order	Choose the data bit order to match the data bit order used by the Modbus Master that communicates with this Modbus Slave.		
High Bit First	Click this to specify that the high bit is first.		
Low Bit First	Click this to specify that the low bit is first.		
Data Size	Select the appropriate data format for Modbus Register data from the drop down menu. The available selections are:		
	Single Bit – Each Register will include a single bit		
	Byte Data – Each Register will include a single byte		
	16 Bit Integer – Each Register will include a single 16-bit integer		
	32 Bit Int. , 1 Reg. , Cnt*1 , Adr*1 – Each Register will include a 32-bit double integer.		
	32 Bit Float, 1 Reg., Cnt*1, Adr*1 – Each Register will include a 32-bit floating point number		
	32 Bit Int., 2 Reg., Cnt*2, Adr*2 – Two registers will be used for each 32-bit double integer. The MODBUS Master must poll two registers for each 32 bit integer.		
	32 Bit Float, 2 Reg., Cnt*2, Adr*2 – Two registers will be used for each 32-bit floating point number. The MODBUS Master must poll two registers for each 32 bit number.		
	32 Bit Int., 2 Reg., Cnt*2, Adr*1 - Two registers will be used for each 32-bit double integer. The MODBUS Master must poll a single register for each 32 bit integer.		

Field	Description
	32 Bit Float, 2 Reg., Cnt*2, Adr*1 - Two registers will be used for each 32-bit floating point number. The MODBUS Master must poll a single register for each 32 bit number.
	Press [Enter] to save the selection. If you don't make a selection, the field shows Not Set .
RTS Delay Mode	Select from one of two modes for the Ready-to-Send (RTS) delay mode.
	Message Delay Mode - After the Modbus Slave port raises RTS, a delay timer starts. The length of the delay is determined by the value in the Delay Time field. No message is sent until after this delay expires. The value of CTS does not affect the operation of this mode.
	CTS Timeout Mode - After the Modbus slave port raises RTS, it uses the Delay Time value as the maximum time to wait for CTS to be received from the master. If the Modbus slave port receives CTS at any time before this time expires, the port starts to transmit the message. If the Modbus slave port does not receive a CTS from the master prior to the expiration of the Delay Time, it does not respond to the master and instead reports an error.
	Press [Enter] to save the selection.
Delay Time msec	Specify the Delay Time (in milliseconds) used by the RTS Delay Mode and CTS Timeout Mode .
Coils List 12	Each Modbus slave session has two dedicated lists, one for Modbus Registers and the other for Modbus Coils. To display coils in the signal list grid, click this button. See Section 2.4.1 for instructions on using the signal list grid.
Register List 13	Each Modbus slave session has two dedicated lists, one for Modbus Registers and the other for Modbus Coils. To display registers in the signal list grid, click this button. See <i>Section 2.4.1</i> for instructions on using the signal list grid.
Push to Initialize List / Initializing	Click Push to Initialize List to set all coils in list 12 to FALSE or all registers in list 13 to 0.0, depending upon which list you are viewing in the grid The button shows "Initializing" while this is in progress.
Modbus Status	This read-only field displays a status code indicating the health of the Modbus slave communications.
	If you see any code other than 0 here or see an error message above the code, see <i>Appendix E – Errors</i> and <i>Troubleshooting</i> for more information.

Field	Description
	The fields below are only visible when using BSAP protocol, which makes the ControlWave Micro running Station Manager into a BSAP slave.
BSAP Slave Address Modbus Status	The ControlWave Micro's BSAP slave address.
BSAP Server ID	Specify the ID for the server function block in your ControlWave Micro Station Manager application.
BSAP Send List 12	Click this to display the send list in the signal list grid. This list holds outgoing data sent to the BSAP master.
BSAP Receive List 13	Click this to display the receive list in the signal list grid. This list holds incoming data received from the BSAP master.
BSAP Status	Shows BSAP communication status messages.

2.4.1 Signal List Grid

The Signal List grid displays lists of variables included in the Station Manager application.

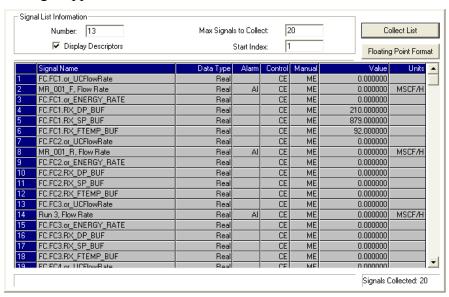


Figure 2-13. Signal List Grid Control

Field	Description
Signal List Information	The list window shows the contents of lists within the application.
Number	Specifies the number of the list. In some cases, pushing a button elsewhere on the page fills in this number; in other cases, you must enter a list number directly.
Max Signals to Collect	Specifies the number of list items to retrieve into the grid control. Depending upon how many list items are collected, you may need to use a scroll bar to view them.

Field	Description
Display Descriptors	If the application programmer configured descriptors for this list, check this box to view them instead of variable names in the Signal Name field.
Start Index	Normally, the signal list grid displays variables beginning with the first variable in the list. If you want to skip further into the list, enter the number of the first list item you want to see in this field, and the grid starts displaying from that item forward.
Collect List	Click this button to force the Signal List grid to collect the specified list now.
Floating Point Format	Click this to specify the Floating Point Format dialog box. See <i>Figure 2-14</i>
Signal Name	Shows the variable name for this list item, or its descriptor.
Data Type	Shows the variable type, such as Real or Boolean.
Alarm	If this variable is an alarm, and this shows "AI" it indicates the variable is alarm inhibited. If this shows "AE" it indicates that the variable is alarm enabled.
Control	If this shows "CI" it indicates the variable is control inhibited. If this shows "CE" it indicates that the variable is control enabled.
Manual	If this shows "MI" it indicates the variable is manual inhibited. If this shows "ME" it indicates that the variable is manual enabled.
Value	Shows the current value of the variable.
Units	Shows the engineering units (if specified) for this variable.
Signals Collected	Displays a count of the number of variables collected into the signal list grid.

2.4.2 Floating Point Format

The floating point format is the way floating point (real) numbers display within a screen in the Station Manager application.

To change this format, you click the page, to call up the Float Format dialog box.

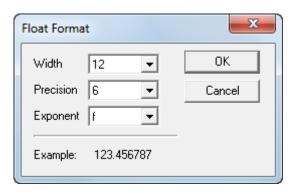


Figure 2-14. Floating Point Format dialog box

Field	Description	
Width	Choose the total number of characters in the field (including the decimal point) used to display a floating point number.	
Precision	Choose the number of places to the right of the decimal point which the floating point number should show.	
Exponent	Select one of these formats: e show number in exponential notation f show number in floating point notation g allow application to choose the "best fit" format for this number.	
OK	Click this to save your entries and exit the dialog box.	
Cancel	Click this to discard your entries and exit the dialog box.	

2.5 Ultrasonic Data

To access this page, click the Ultrasonic Data button on the I/O tab.

The data displayed for the ultrasonic tests is not the raw Modbus data from the ultrasonic flow meter (UFM). The data is run through a filtering process before being displayed. The displayed data is the rolling output from the filtering process. The filtering process eliminates false alarms caused by variability in the process.

Customers have used the following UFMs with Station Manager:

- Daniel MARK III
- Instromet Q.Sonic 3/4/5/6 Path, CheckSonic 1/2 Path, CheckSonicVx 3/6 Path Series VI and S.Sonic Series III
- Sick Maihak FLOWSIC600

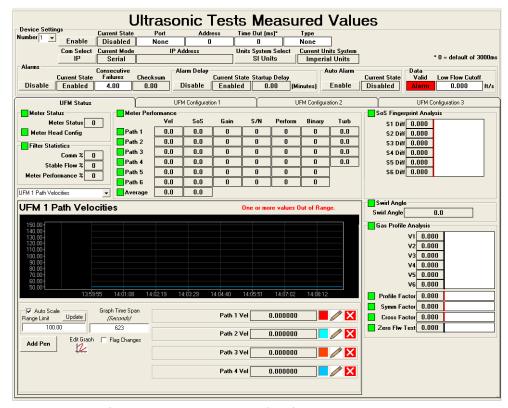


Figure 2-15. Ultrasonic Tests Measured Values page

Field	Description	
Device Settings	If you are running the 6-run version of Station Manager, you will only have 6 items to choose from for many of these fields.	
Number	Select the ultrasonic meter number for which you want to view status data.	
Enable/Disable	Click Enable to enable communications from Station Manager to the specified UFM. Click Disable to disable communications to the specified UFM. Note: Whenever you change any communication settings, you must first disable communications; then when you've completed all communication setting changes, re-enable communications.	
Current State	Shows the current enable/disable state of communications to the UFM.	

Port	Use the dropdown menu to specify the ControlWave Micro serial communication port which connects to this UFM.
Address	Specify the address of the UFM.
Time Out	Specify the maximum length of time (in milliseconds) for a UFM to respond to the ControlWave Micro before a communication failure is declared. If you leave this value at 0, Station Manager uses a default timeout of 3000 ms (3 seconds).
Туре	Use the drop-down menu to select the type of UFM.
Com Select IP/Serial	Choose the method of communication to the UFM. Click IP to select IP communication or Serial to select serial communication.
Current Mode	Shows the current method of communication with the UFM, either Serial or IP.
IP Address	When communicating to the UFM via IP, enter its IP address here.
Generic Modbus (base 0) / Sick Modbus (base 1)	Click here to identify for Station Manager the Modbus base offset it should use when collecting data from a Sick UFM. The button label indicates what offset you will use and the Current State updates to reflect your choice. (Sick UFM only.)
Current State	Shows the current Modbus base offset Station Manager uses when collecting data from a Sick UFM. (Sick UFM only.)
Alarms	Alarms may be generated from the UFM.
Enable/Disable	Click Enable to turn on alarming for this UFM. Click Disable to turn off alarming for this UFM.
Current State	Shows whether alarming is currently enabled or disabled.
Consecutive Failures	Shows the number of consecutive failures required to trigger an alarm from the UFM.
Checksum	If checksum changes, some configuration change occurred.
<u>Delay</u>	You can optionally set up a delay period at the start of polling during which the system ignores alarms from the UFM.
Enable/Disable	Click Enable to apply a delay during which alarms are ignored at the start of polling.

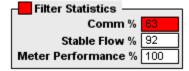
	Click Disable to turn off the delay.		
Current State	Shows whether the delay is enabled or disabled.		
Startup Delay	Specifies the delay in minutes during which alarms from this UFM are ignored at the start of polling.		
Auto Alarm	Based on velocity min and max values, the auto alarm chooses which ranges to use.		
Enable/Disable	Click Enable to turn on the auto-alarm function.		
	Click Disable to turn off the auto-alarm function.		
Current State	Shows whether the auto-alarm function is currently enabled or disabled.		
<u>Data</u>			
Valid	Shows the data valid alarm status from the UFM.		
Low Flow Cutoff	Specifies a flow limit below which the data valid alarm is disabled.		
UFM Status/Meter Status	alam is disabled.		
Meter Status	The results of the analysis are displayed as a binary number in the bottom left corner. The binary status is calculated as follows:		
	Alarm		
	Meter performance orange alarm (at least one path orange)		
	2 SoS fingerprint alarm		
	4 SoS comparisons alarm		
	8 Gas profile analysis alarm		
	16 Zero flow alarm		
	32 Meter performance red alarm (at least		
	one path red) 64 ACF comparisons alarm		
	128 Checksum alarm		
	256 Modbus Comm % alarm		
Meter Head Config	The ControlWave polls the meter for the configuration		
U	checksums and compares the checksum to values		
	stored in the ControlWave. If the values do not match		
	the appropriate checksum the light is set to red and the Meter Head Configuration Box light is set to red		
Filter Statistics	The filter statistics section displays the results from		
	the last output of the rolling data filter. The size of the filter is configurable and set on the UFM		
	Configuration 1 tab. The filter should default to 20		

which means that the displayed data is the results of the last 20 communications to the meter.

Comm %

The **Comm** % illustrates the percent of successful Modbus communications to the meter during the last set of data. Stable flow yields good USM data analysis results.

If the Comm % for any set of rolling filter data is less than the limit then the Comm % box is set to red and the Filter Statics Box light is set to red as shown below:



Stable Flow %

The **Stable Flow** % illustrates the percent of the last set of data on which analysis was performed (see the SoS Fingerpirnt Analysis and Gas Profile Analysis boxes). Flow is considered stable when the average velocity from one poll to the next changes by less than 1 ft/s) and all the paths are OK, and the corrected gas velocity and SoS are OK.

Meter Performance %

The **Meter Performance** % illustrates the percent of the last set of data where all the path performances were good (Since Stable Flow % depends on Meter Performance %, Stable Flow must be less than or equal to Meter Performance %).

Meter Performance

The Meter Performance Box analyzes the meter's online diagnostics to determine the health of the meter (not the meter system.)

For each data set that makes up a rolling filter, the path diagnostics are examined. If the path velocity or SoS is outside the limits or the path binary status indicates a failed path then that set of path data is discarded from the rolling filter results. After examining all the data sets the percentage of successful data is calculated and the successful path data processed.

Colors are used to indicate the success/failure of individual path parameters and the health of the meter.

Green

Indicates path data passed all tests.

Orange

Indicates a minor failure.

Red

Indicates a major failure. If the Meter Performance Box is red then the SoS Fingerprint Analysis, the

	SoS Comparisons, and the Velocity Profile Analysis box lights are turned to grey and the interior values set to gray to indicate that the test is not being performed due to the failed meter performance.	
Path n	If this path's data passes all the tests then the status light is set to green. If the path data fails a test then the status light turns orange and the offending parameter's box turns orange.	
Vel	Shows the average velocity for this path. If this is outside the configured limits, data for this path is discarded from the rolling filter results.	
SoS	Shows the average speed of sound for this path. If this is outside the configured limits, data for this path is discarded from the rolling filter results.	
Gain	Shows the average gain for this path.	
S/N	Shows the average signal to noise ratio for this path.	
Perform	Shows the average performance for this path.	
Binary	 0= Path is OK 1 = Path Gain above limit 2 = Path S/N below limit 4 = Path Turbulence above limit 8 = Path performance below performance limit The path binary status is set to a 16 if all the binary status in the rolling average indicated that the path is failed or all the velocities or SoS are outside the limits. 	
Turb	Shows the average turbulence for this path.	
SoS Fingerprint Analysis	The SoS Fingerprint Analysis box displays the maximum difference between each path and all the other paths. For example, if there are four paths (S1 through S4) S1 Diff is the maximum of s1-s2, s1-s3, s1-s4, where the sign is kept. For example if s1-s2 = 0.23 and s1-s3 = -0.41 and s1-s4 = 0.11 the S1 Diff should be displayed as -0.41	
Sn Diff	If the diff is positive the bar should be dark blue. It the difference is negative it should be light blue. If any of the differences are greater than the limit (the red line) then the SoS Fingerprint Analysis light is turned to red.	
Swirl Angle		
Swirl Angle	This is gas profile data read from the UFM.	
Gas Profile Analysis	The Gas Profile Analysis Box displays the path velocity ratios. The path ratios are calculated by dividing each path velocity by the average velocity calculated as follows:	

- Daniel SS= (v1+v4)*0.1382 + (v2+v3)*0.3618
- Daniel X = (v1+v2+v3+v4)/4
- Sick = (v1+v4)*0.1382 + (v2+v3)*0.3618
- Q5 = 0.85/3*(v1+v3+v5)+0.15/2*(v2+v4)
- Q3 = 0.15*v2+0.85/2*(v1+v3)

These equations are used to make the ratios independent of the flow calibration. For a Daniel SeniorSonic the Profile ratio, Symmetry ratio, and Cross flow are also displayed and tested. If a ratio fails the test then the ratio box light is turned to red and the Gas Profile Analysis Box light is also turned to red.

If any of the path velocities average less than 0.05 ft/s then the other velocities are tested to make sure they are also close to zero (check for zero bias). When this condition is true V1, V2, V3, V4 show the actual velocities (not the ratios described above) with positive velocities in dark blue and negative velocities in light blue. The velocities are then tested as follows:

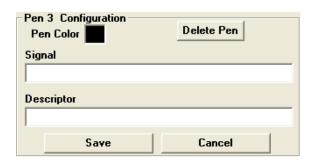
- Daniel or Sick: if any velocity is less than 0.05 ft/s then the average of all four must be less than 0.1 ft/s
- Instromet: if any velocity is less than 0.05 ft/s then all the other velocities must be less than 0.1 ft/s

The average velocity in the Sick or Daniel Test or the maximum velocity calculated in the Instromet test is displayed in the box next to the Zero Flow Test and the value is graphically displayed with the limit.

heading (as you would when adding a pen) then select **Add**

Vn	This represents the ratio of the path velocity to the average velocity, or the actual path velocity if they all average less than 0.05 ft/sec.	
Profile Factor	Shows the profile fac	ctor of this UFM.
Symm Factor	Shows the symmetry	r factor of this UFM.
Cross Factor	Shows the cross factor of this UFM.	
Zero Flw Test	Shows the zero flow test value for this UFM.	
<u>Graph</u>		
None Path Velocities Add Graph Make Default Graph	The list box above operations:	the graph lets you perform various
Remove Graph	None	Do not show any graph.
NOTE: This list box applies to Station Manager 8-Run only.	Path Velocities	(Default) – Select this to show the path velocities.
	Add Graph	Choose a path and column

		Graph to add a graph.
	Make a Default Graph	To assign the current graph as the default when you open the page, select Make a Default Graph .
	Remove Graph	To delete the current graph select Remove Graph .
		ger stores graph information in a text vritten each time you make a new
Low Limit	Specify the minimur the graph.	n value the system should display on
High Limit	Specify the maximul the graph.	m value the system should display on
Graph Time Span	Allows you to spec displayed in the gra	cify the number of seconds of data oh window.
Add Pen	Click this button to a the Pen Configuration	add an additional pen to the graph in on dialog box:



Pen Color Click here to bring up the color palette to

select a color for the pen.

Signal Specify the name of the ControlWave

variable which drives this pen; the variable must have been marked PDD.

Descriptor Optionally specify a name to appear

next to this pen's controls underneath

the graph.

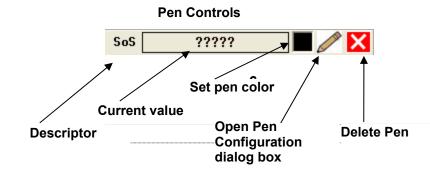
Delete Pen Click here to delete this pen.

Save Click here to save the pen configuration

entries.

Cancel Click here to exit the dialog box without

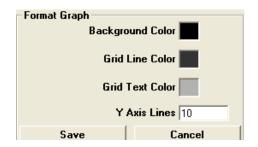
saving changes.



For information on adding pens for specific path parameters, see *Adding Pens for Specific Path Parameters*.

Edit Graph

Click here to open the Format Graph dialog box.



Background Color

Click here to bring up the color palette to select a color for the background.

Grid Line Color Click here to bring up the color palette to

select a color for the grid lines.

Grid Text Color Click here to bring up the color palette to

select a color for the grid text.

Y-Axis Lines Specify the number of grid line markers

to appear along the Y-axis.

Save Click here to save the graph

configuration entries.

Cancel Click here to exit the dialog box without

saving changes.

Flag Changes

If you check this, the graph will show a red vertical dashed line at the time position on the graph where a setting for the graph changed.

Auto Scale If you check this, Station Manager tries to do a "best fit"

graph within the range specified.

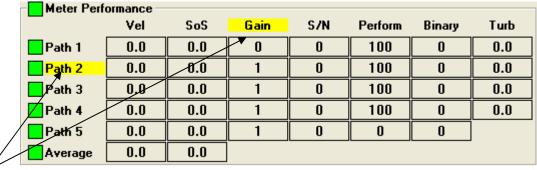
Range Limit

Specifies the maximum range of values to show on the graph. For example, if the **Range Limit** is 100, Station Manager averages the values and displays a range 50 above and below the average value.

Update	If you change the Range Limit, click the Update button
	to activate the new upper and lower limits. Station
	Manager only changes the limits on an update to prevent
	continually changing the upper and lower limits.

Adding Pens to the Graph for Specific Path Parameters

If there is a specific path parameter that you want to include on the graph, click the path name on the left of the Meter Performance area so it is highlighted, then click the desired parameter, so it is highlighted. This adds a pen to the graph for that variable.



Click the path name, then click the parameter name to add a pen for that parameter to the graph.

Figure 2-16. Adding Pens

UFM Configuration 1

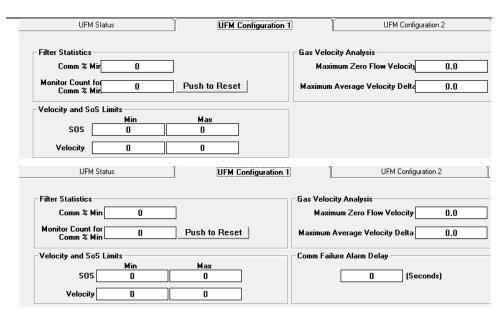


Figure 2-17. UFM Configuration 1 page

Enter the minimum communication percentage setting for UFM statistics.
Specify the number of communication attempts used to calculate the communication percentage.
Click here to reset the communication attempt counter to 0.
Enter the maximum zero flow velocity.
This is the alarm setting for the maximum difference (delta) of the average gas velocity between different paths.
These limits are used to check velocity and speed of sound.
Specify the minimum speed of sound alarm limit.
Specify the maximum speed of sound alarm limit.
Specify the minimum velocity alarm limit.
Specify the maximum velocity alarm limit.
If communication with this UFM fails, this field specifies the number of seconds the Station Manager application waits before generating a communication failure alarm.

UFM Configuration 2

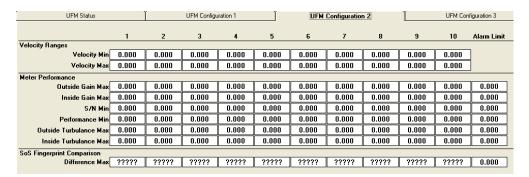


Figure 2-18. UFM Configuration 2 page

Velocity Ranges	
Velocity Min	The columns represent velocity ranges and allow the user to tune the parameter limits to the velocity range. Velocity Min defines the lower end of the velocity range. The 10 ranges allow the user to select 5 ranges in both the positive and negative direction or 10 ranges in a single direction. If a parameter is left empty on the screens then the test should not be performed for that velocity range.
Velocity Max	The columns represent velocity ranges and allow the user to tune the parameter limits to the velocity range. Velocity Max defines the upper end of the velocity range. The 10 ranges allow the user to select 5 ranges in both the positive and negative direction or 10 ranges in a single direction. If a parameter is left empty on the screens then the test should not be performed for that velocity range.
Meter Performance	
Outside Gain Max	Define the maximum outside gain allowed for this UFM.
Inside Gain Max	Define the maximum inside gain allowed for this UFM.
S/N Min	Define the minimum signal to noise ratio for this UFM.
Performance Min	Define the minimum performance value for this UFM.
Outside Turbulence Max	Define the maximum outside turbulence for this UFM.

Inside Turbulence Max	Define the maximum inside turbulence for this UFM.
Alarm Limit	The current alarm limit in use for auto-alarm. If you disable auto-alarm, you enter your own alarm limit here.
SoS Fingerprint Comparison	
Difference Max	The maximum allowable difference in the speed of sound fingerprint calculation.

UFM Configuration 3

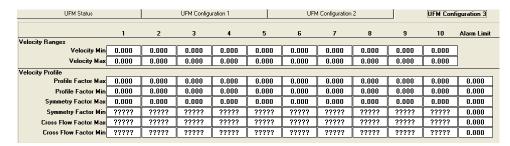


Figure 2-19. UFM Configuration 1 page

Velocity Ranges	
Velocity Min	The columns represent velocity ranges and allow the user to tune the parameter limits to the velocity range. Velocity Min defines the lower end of the velocity range. The 10 ranges allow the user to select 5 ranges in both the positive and negative direction or 10 ranges in a single direction. If a parameter is left empty on the screens then the test should not be performed for that velocity range.
Velocity Max	The columns represent velocity ranges and allow the user to tune the parameter limits to the velocity range. Velocity Max defines the upper end of the velocity range. The 10 ranges allow the user to select 5 ranges in both the positive and negative direction or 10 ranges in a single direction. If a parameter is left empty on the screens then the test should not be performed for that velocity range.
Velocity Profile	
Profile Factor Max	Specify the maximum profile factor for this UFM.
Profile Factor Min	Specify the minimum profile factor for this UFM.
Symmetry Factor Max	Specify the maximum symmetry factor for this UFM.
Symmetry Factor Min	Specify the minimum symmetry factor for this UFM.
Cross Flow Factor Max	Specify the maximum cross flow factor for this UFM.
Cross Flow Factor Min	Specify the minimum cross flow factor for this UFM.

2.6 Load/Save Configuration

The Load/Save Configuration function provides a way to save and restore Station Manager configuration files. It uses the ControlWave ScriptTool utility to launch various utilities to accomplish the read/write operations.



Do not manually rename the files you save with the Load/Save function. Doing so may prevent the Load/Save function from recognizing the proper file type and could result in an invalid restore.

Notes:

- If you plan to restore arrays related to a UFM or GC RF you should restore the associated recipes for those arrays first before you attempt to restore the arrays. This ensures the control knows which arrays are available. If you restore arrays and recipes together in the same Load operation, the software restores them in the proper order for you.
- If you plan to restore batch edits you should restore the associated recipes for the application first, before you attempt to restore the batch edits. If you restore batch edits and recipes together in the same Load operation, the software restores them in the proper order for you.
- Depending on the version of Station Manager you are using, the number of items may vary (six for six runs, or eight for eight runs).
- While a load/save operation is in progress, TechView is locked until the ScriptTool operation finishes or is stopped.

Click the Load/Save Configuration button on the I/O tab to activate the Load/Save Configuration page.

To prevent confusion, the page is divided into two tabs, one for saving configuration files from the RTU, the other for loading configuration files into the RTU. Both tabs share most of the same fields.

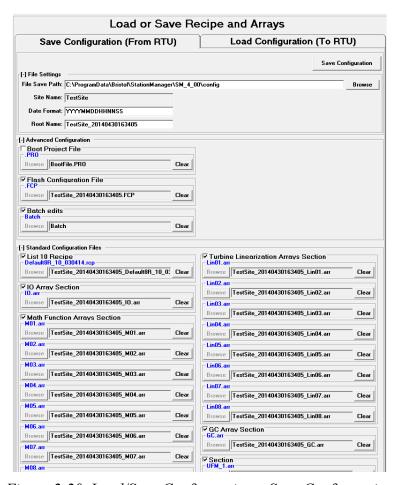


Figure 2-20. Load/Save Configuration – Save Configuration tab

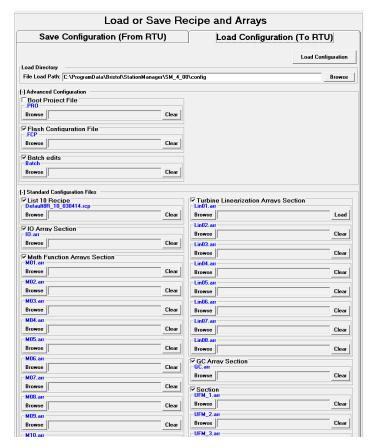


Figure 2-21. Load/Save Configuration – Load Configuration tab

File Settings	The File Settings section applies only to the Save tab.
File Save Path	Specify the folder on your PC where you want to save the files retrieved from the RTU.
Site Name	Shows the site name as configured in the Status/Configuration pages of the measurement tab. The Site name and year format are used to create the default root filename.
Year Format	Specify the date format you want to use. The field turns red if you make an invalid entry. This format and the site name are used to create the default root filename. If you don't want to include a date in the root filename, you can blank out this field.
Root Name	Use the default root filename (made up of the site name and date format) or specify a different root filename here.
Load Directory	The Load Directory section applies only to the Load tab.
File Load Path	Specify the folder on your PC which contains the files you want to load into the RTU.
Advanced Configuration	
Boot Project File	The boot project (BootFile.pro) is the ControlWave project boot file.

Note: By default, the boot project file is not checked to prevent you from accidentally overwriting an existing boot file on your RTU or on the PC. You must specifically check the box if you want to save or load it.

On the Save Configuration tab: This field shows the name of the boot project residing in the RTU.

- Check the box [▽] if you want to save the boot project when you save the configuration.
- If you don't want to save the bootproject when you save the configuration, either uncheck the section, or click Clear to erase the name.
 If you want to restore the name you cleared, click Load

On the Load Configuration tab: This field shows the path and name of the boot project residing on your PC that you want to load into the RTU. You can use the Browse button to locate and specify the file.

- Check the box [☑] if you want to load the boot project when you load the configuration.

Flash Configuration File

The flash configuration profile (*.FCP) file holds various configuration parameters for the ControlWave.

On the Save Configuration tab: This field shows the name of the FCP file residing in the RTU.

- Check the box if you want to save the FCP file when you save the configuration.

On the Load Configuration tab: This field shows the path and name of the FCP file residing on your PC that you want to load into the RTU. You can use the Browse button to locate and specify the file.

- Check the box if you want to load the FCP file when you load the configuration.
- If you don't want to load the FCP file when you load the configuration, either uncheck the box, or click Clear to erase the name. If you want to restore the name you cleared, click Load

Batch edits

Batch edits refers to a file of changes which occur together. If you are restoring individual sections, always restore recipe files before you restore batch edits.

On the Save Configuration tab: This field shows the name of the batch edits file residing in the RTU.

- Check the box ☐ if you want to save the batch edits file when you save the configuration.
- If you don't want to save the batch edits file when you save the configuration, either uncheck the box, or click clear to erase the name. If you want to restore the name you cleared, click close.

On the Load Configuration tab: This field shows the path and name of the batch edits file residing on your PC that you want to load into the RTU. You can use the Browse button to locate and specify the file.

- Check the box if you want to load the batch edits file when you load the configuration.
- If you don't want to load the batch edits file when you load the configuration, either uncheck the box, or click Clear to erase the name. If you want to restore the name you cleared. click Load.

Standard Configuration Files

List 10 Recipe

The List 10 recipe specifies several important Station Manager parameters. If you are restoring individual sections separately, you need to restore this recipe before you restore UFM arrays, GC RF arrays, or batch edits.

On the Save Configuration tab: This field shows the name of the List 10 recipe file residing in the RTU.

- Check the box if you want to save the List 10 recipe file when you save the configuration.
- If you don't want to save the List 10 recipe file when you save the configuration, either uncheck the box, or click Clear to erase the name. If you want to restore the name you cleared, click Coad.

On the Load Configuration tab: This field shows the path and name of the List 10 recipe file residing on your PC that you want to load into the RTU. You can use the Browse button to locate and specify the file.

- Check the box if you want to load the List 10 recipe file when you load the configuration.
- If you don't want to load the List 10 recipe file when you load the configuration, either uncheck the box, or click Clear to erase the name. If you want to restore the name you cleared click Load

IO Array Section

On the Save Configuration tab: this field shows the name of the IO array file residing in the RTU.

- Check the box if you want to save the IO array file when you save the configuration.
- If you don't want to save the IO array file when

you save the configuration, either uncheck the box, or click Clear to erase the name. If you want to restore the name you cleared, click Load.

the Load Configuration tab: This field shows the path and name of the IO array file residing on your PC that you want to load into the RTU. You can use the Browse button to locate and specify the file.

- Check the box

 if you want to load the IO array file when you load the configuration.
- If you don't want to load the IO array file when you load the configuration, either uncheck the box, or click to erase the name. If you want to restore the name you cleared, click Load

Math Function Arrays Section

<u>On the Save Configuration tab</u>: These fields show the names of the math function array files residing in the RTU.

- Check the box if you want to save all (or some) of the math function array files when you save the configuration.
- If there are one or more math function array files you don't want to save, but you are saving at least one, click clear to erase the name of any math function array file you don't want to save. If you want to restore the name you cleared, click Load.

On the Load Configuration tab: These fields show the paths and names of the math function array files residing on your PC that you want to load into the RTU. You can use the Browse buttons to locate and specify each file.

- Check the box if you want to load one or more of the math function array files when you load the configuration.
- If you don't want to load one or more of the math function array files when you load the configuration, click Clear to erase its name. If you want to restore the name you cleared, click Load.

Turbine Linearization ArraysThe linearization configuration arrays are used with **Section** turbine meters.

<u>On the Save Configuration tab</u>: These fields show the names of the turbine linearization array files residing in the RTU.

- Check the box if you want to save all (or some) of the turbine linearization array files when you save the configuration.
- If there are one or more turbine linearization array files you don't want to save, but you are saving at least one, click Clear to erase the name of any turbine linearization array file

you don't want to save. If you want to restore the name you cleared, click Load.

On the Load Configuration tab: These fields show the paths and names of the turbine linearization array files residing on your PC that you want to load into the RTU. You can use the Browse buttons to locate and specify each file.

- Check the box ✓ if you want to load one or more of the turbine linearization array files when you load the configuration.
- If you don't want to load one or more of the turbine linearization array files when you load the configuration, click Clear to erase its name. If you want to restore the name you cleared, click Load.

GC Array Section

On the Save Configuration tab: This field shows the name of the gas chromatograph (GC) array file residing in the RTU.

- Check the box

 if you want to save the GC array file when you save the configuration.
- If you don't want to save the GC array file when you save the configuration, either uncheck the box, or click Clear to erase the name. If you want to restore the name you cleared click Load.

On the Load Configuration tab: This field shows the path and name of the GC array file residing on your PC that you want to load into the RTU. You can use the Browse button to locate and specify the file.

- Check the box ✓ if you want to load the GC array file when you load the configuration.
- If you don't want to load the GC array file when you load the configuration, either uncheck the box, or click Clear to erase the name. If you want to restore the name you cleared, click Coad.

UFM Arrays Section

The UFM arrays are used with ultrasonic flow meters. If you are restoring individual sections, always restore recipe files before you restore UFM arrays.

On the Save Configuration tab: These fields show the names of the UFM array files residing in the RTU.

- Check the box
 if you want to save all (or some) of the UFM array files when you save the configuration.
- one, click Clear to erase the name of any UFM array file you don't want to save, but you are saving at least one, click to erase the name of any UFM array file you don't want to save. If you want to restore the name you cleared, click Load.

On the Load Configuration tab: These fields show

the paths and names of the UFM array files residing on your PC that you want to load into the RTU. You can use the Browse buttons to locate and specify each file

- Check the box
 if you want to load one or more of the UFM array files when you load the configuration.
- If you don't want to load one or more of the UFM array files when you load the configuration, click Clear to erase its name. If you want to restore the name you cleared, click Load.

GC RF Arrays Section

The GC RF arrays are used with gas chromatographs. If you are restoring individual sections, always restore recipe files before you restore GC RF arrays.

On the Save Configuration tab: These fields show the names of the GC RF array files residing in the RTU.

- Check the box
 if you want to save all (or some) of the GC RF array files when you save the configuration.

On the Load Configuration tab: These fields show the paths and names of the GC RF array files residing on your PC that you want to load into the RTU. You can use the Browse buttons to locate and specify each file.

- Check the box if you want to load one or more of the GC RF array files when you load the configuration.
- If you don't want to load one or more of the GC RF array files when you load the configuration, click Clear to erase its name. If you want to restore the name you cleared, click Load.

Save Configuration	Click this button to save the specified files on your PC. See Section 2.6.1 for more information.
Load Configuration	Click this button to load the specified files into the RTU.

2.6.1 Save Configuration (From RTU)

The Save Configuration (From RTU) tab lets you save the ControlWave boot project, flash configuration profile (FCP) file, as well as various array files and recipe files used by the Station Manager application.

- **1.** Go to the Save Configuration (From RTU) tab.
- 2. To view the items to be saved in a section, click "+" to expand that section.
- 3. Use the **Browse** button in the **File Save Path** field to specify the path on your PC where you want to save the configuration files.
- 4. Optionally use the **Year Format** field to specify the date format used in the root filenames which you will save.
- **5.** Optionally edit the **Root Name** to specify the base filename used for the configuration files which you will save.
- **6.** If you want to save the boot project, FCP, and batch edit files, go to the **Advanced Configuration** box, and check those files.
- 7. In the **Standard Configuration Files** section check the box for any groups of files you want to save.
- 8. If there are certain files in a group that you do **not** want to save, and they don't have their own check box for you to un-check, click the **Clear** button for each of the files you don't want to save; this erases their name so they won't be saved at the PC. If you accidentally clear the wrong one, click **Load** to restore its name.
- 9. Click the **Save Configuration** button. This activates the ControlWave ScriptTool which in turn sequentially retrieves all of the specified files from your RTU, and saves them on your PC.

Note: Depending upon which files you choose to save, this process could take several minutes. Allow the ScriptTool to run by itself until the script finishes.



Once you've saved the files, do not manually rename them (for example, in Windows Explorer). Doing so may prevent the Load/Save function from recognizing the proper file type and could result in an invalid restore.

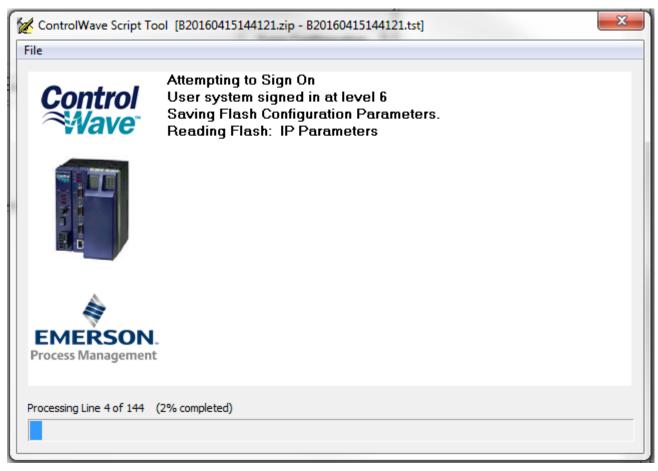


Figure 2-22. ControlWave ScriptTool Performs File Save Operations

2.6.2 Load Configuration (To RTU)

The Load Configuration (To RTU) tab lets you load the ControlWave boot project, flash configuration profile (FCP) file, as well as various array files and recipe files used by the Station Manager application into the ControlWave Micro controller. This is useful if, for example, you took the controller out of service to replace a component and now you want to restore its configuration.

Note: If you restore multiple files, the software restores them in the proper order for you. If you choose to restore individual files separately, be sure you always restore recipes prior to restoring batch edits, GC RF arrays, or UFM arrays.

1. In the **Load Directory** field, use the **Browse** button to specify the folder on your PC which contains the files you want to load into the RTU. Alternatively, you can choose an existing ZIP file containing configuration files. In either case, the utility automatically populates fields based on the contents of the folder or ZIP file. If a section is unchecked, it won't be populated. If filenames don't match the expected name pattern, they are highlighted in red; this could indicate a potential mismatch in file types.

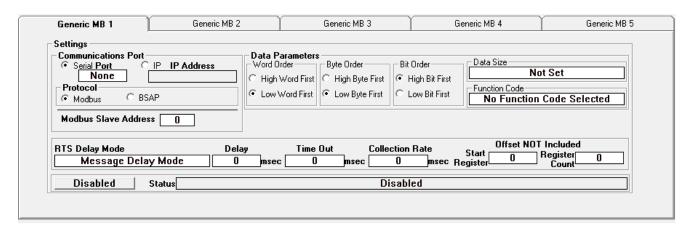
- 2. Click "+" to expand any sections into which you want to load individual files. You must expand a section to load all files in a section. If a section is unchecked, no files will be loaded from that section.
- 3. If you want to load the boot project (*.PRO), flash configuration profile files (*.FCP), and batch edit files, go to the **Advanced**Configuration box and check those files.
- 4. In the **Standard Configuration Files** section check the box for any group of files you want to load.
- 5. If there are certain files in a group that you do **not** want to load, and they don't have their own check box for you to un-check, click the **Clear** button for each of the files you don't want to load; this erases their name so they won't be saved at the PC. If you accidentally clear the wrong one, click **Load** to restore its name.
- 6. Click the **Load Configuration** button. This activates the ControlWave ScriptTool which in turn sequentially retrieves all of the specified files from the **Load Directory** on your PC (or from the zip file) and loads them into the RTU. If you are restoring advanced files, you will be required to provide a valid user/password combination.

Notes:

- Depending upon which files you choose to save, this process could take several minutes. Allow the ScriptTool to run by itself until the script finishes. The screen updates to show the progress of the script.
- ScriptTool always loads the recipe files first. When loading individual sections separately, you must load recipes before loading GC RF arrays, UFM arrays, or batch edits.

2.7 Generic Modbus Master

Click the Generic Modbus Master button on the I/O tab to activate the Generic Modbus page. There are multiple pages for Modbus Master 1 (MB1) to Modbus Master 5 (MB5). You click on a tab to call up the appropriate Modbus Master.



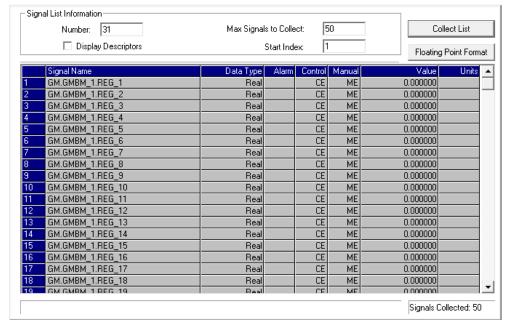


Figure 2-23. Generic Modbus Master

This page includes the following fields:

Field Settings	Description
Communications Port	Modbus communications can use either serial or IP communications.
Serial	Click the Serial button to use serial Modbus communication, and specify the port you want to use. (See Port).

Field	Description	
Port	ControlWave	erial communication port on the Micro you want to use for Modbus nunication. Use the following code:
	Enter this:	To select this serial CW Micro port:
	1	COM1
	2	COM2
	3	COM3
	4	COM4
	5	COM5
	6	COM6
	7	COM7
	8	COM8
	9	COM9
	10	COM10
	11	COM11
	Press [Enter	to save the selection.
ĪP	Click the IP to communicati	outton to use IP Modbus (Open Modbus) on.
IP Address		o use IP Modbus (Open Modbus), enter ss of the port used by this master.
Protocol		
Modbus	Click this but communicati	ton to configure Modbus on.
BSAP	Do NOT cho communicati	ose this when configuring Modbus on.
Data Parameters		
Word Order		data word order to match the data word y the Modbus Slave that communicates Ibus Master.
High Word First	Click this to s	specify that the high word is first.
Low Word First	Click this to s	specify that the low word is first.
Byte Order	Choose the data byte order to match the data byte order used by the Modbus Slave that communicates with this Modbus Master.	
High Byte First	Click this to s	specify that the high byte is first.

Field	Description
Low Byte First	Click this to specify that the low byte is first.
Bit Order	Choose the data bit order to match the data bit order used by the Modbus Slave that communicates with this Modbus Master.
High Bit First	Click this to specify that the high bit is first in a byte of data
Low Bit First	Click this to specify that the low bit is first in a byte of data.
Data Size	Select the appropriate data format for Modbus Register data from the drop down menu. The available selections are:
	Single Bit – Each Register will include a single bit
	Byte Data – Each Register will include a single byte
	16 Bit Integer – Each Register will include a single 16-bit integer
	32 Bit Int., 1 Reg., Cnt*1, Adr*1 – Each Register will include a 32-bit double integer.
	32 Bit Float, 1 Reg., Cnt*1, Adr*1 – Each Register will include a 32-bit floating point number
	32 Bit Int., 2 Reg., Cnt*2, Adr*2 – Two registers will be used for each 32-bit double integer. The MODBUS Master must poll two registers for each 32 bit integer.
	32 Bit Float, 2 Reg., Cnt*2, Adr*2 – Two registers will be used for each 32-bit floating point number. The MODBUS Master must poll two registers for each 32 bit number.
	32 Bit Int., 2 Reg., Cnt*2, Adr*1 - Two registers will be used for each 32-bit double integer. The MODBUS Master must poll a single register for each 32 bit integer.
	32 Bit Float, 2 Reg., Cnt*2, Adr*1 - Two registers will be used for each 32-bit floating point number. The MODBUS Master must poll a single register for each 32 bit number.
	Press [Enter] to save the selection. If you don't make a selection, the field shows Not Set .
Function Code	Select the Modbus function from the drop-down menu.

Field Description Function Code Read Coil Status Read Coil Status Read Input Status Read Holding Registers Read Input Registers Force Single Coil Preset Single Register Read Exception Status Force Multiple Coils Preset Multiple Registers Press [Enter] to save the selection. Enter the Modbus slave address. If the local slave **Modbus Slave Address** address you enter has already been assigned to either the SCADA Enron Modbus slave interface, or any of the other Customer Modbus Slave sessions, you will see a Loc Addr Conflict message. Modify the Modbus Slave Address as required to resolve the conflict. **RTS Delay Mode** Select from one of two modes for the Ready-to-Send (RTS) delay mode. Message Delay Mode - After the Modbus Master port raises RTS, a delay timer starts. The length of the delay is determined by the value in the **Delay** field. No message is sent until after this delay expires. The value of CTS does not affect the operation of this mode. **CTS Timeout Mode** - After the Modbus Master port raises RTS, it uses the **Delay** value as the maximum time to wait for CTS to be received from the slave. If the Modbus Master port receives CTS at any time before this time expires, the port starts to transmit the message. If the Modbus master port does not receive a CTS from the slave prior to the expiration of the **Delay** it does not respond to the slave and instead reports an error. Press [Enter] to save the selection. Delay msec Specify the **Delay** (in milliseconds) used by the **RTS Delay Mode and CTS Timeout Mode.** Press [Enter] to save the selection. Time Out msec Specify the time (in milliseconds) that the Modbus master must wait for a response from the Modbus slave before the master declares that the slave timed out. Press [Enter] to save the selection. Specify the interval (in milliseconds) between poll Collection Rate msec attempts by the Modbus master. Press [Enter] to save the selection.

Field	Description
Start Register	Specify the starting address for coil or register operations. The address transmitted to the Slave is one less than the value specified here. For example, the address 7031 is sent as 7030 for Function code 3. Press [Enter] to save the selection.
Register Count	Specify the number of coils or registers the Master should read. The value can range from 1 to 2000 for coils or 1 to 125 for 16-bit registers, or 1 to 62 for 32-bit registers. Press [Enter] to save the selection.
Disabled/Enabled	If this shows Disabled , click on it to enable the Modbus Master.
Status	This read-only field displays a message regarding the health of the Modbus master communications.
BSAP Parameters	The fields below are only visible when using BSAP protocol, which makes the ControlWave Micro running Station Manager into a BSAP master.
BSAP Server ID Status	Specify the number of the Server function block in the BSAP slave.
Mode	Choose Read Only if you only want to receive data from the slave; choose Write Only if you only want to send data to the slave; choose Read/Write if you want to read and write.
Time Out	Specify how long (in tenths of seconds) to wait for a response from the Server function block in the BSAP slave.
Send List	Specify the number of the send list here.
BSAP Server List #	Shows the number of the list in the BSAP slave from which data is sent/received.
Item Count	Not applicable in BSAP mode
BSAP Slave Address	The BSAP slave address of the slave device.
BSAP Receive List	Click this to display the receive list in the signal list grid. This list holds incoming data received from the BSAP slave.
BSAP Send List	Click this to display the send list in the signal list grid. This list holds outgoing data sent to the BSAP slave.

2.8 Time Set/Daylight Saving Time

Click the ______ button on the I/O tab to open the Time Set/Daylight Saving Time page.

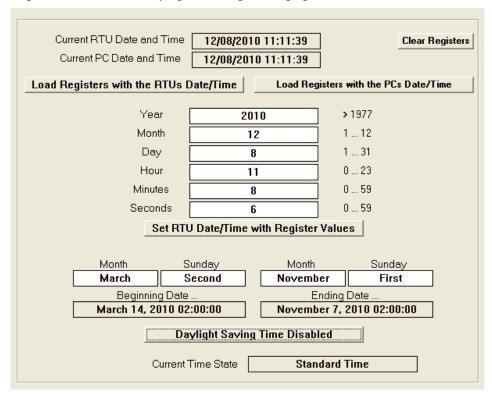


Figure 2-24. Time Set/Daylight Saving Time page

Field	Description
Current RTU Date and Time	This read-only field shows the current date and time setting at the controller.
Current PC Date and Time	This read-only field shows the current date and time at the PC workstation.
Clear Registers	Click this button to set all six time registers (Year, Month, Day, Hour, Minutes and Seconds) to zero.
Load Registers with the RTUs Date/Time	Click this button to store the controller time in the six time registers.
Load Registers with the PCs Date/Time	Click this button to store the PC workstation time in the six time registers.
Year	This time register holds a year value. You can set it by typing in a value, or you can load it by one of the buttons.
Month	This time register holds a month value. You can set it by typing in a value, or you can load it by one of the buttons.

Field	Description
Day	This time register holds a day value. You can set it by typing in a value, or you can load it by one of the buttons.
Hours	This time register holds an hour value. You can set it by typing in a value, or you can load it by one of the buttons.
Minutes	This time register holds a minute value. You can set it by typing in a value, or you can load it by one of the buttons.
Seconds	This time register holds a seconds value. You can set it by typing in a value, or you can load it by one of the buttons.
Set RTU Date/Time with Register Values	Click this button to update the controller's date and time with the values currently in the time registers.
Daylight Saving Time	
Beginning Date	Shows the calculated beginning date for daylight saving time, based on the Month and Sunday rules defined above it.
Month	Select the month in which Daylight Saving Time starts here. Press [Enter] to save your selection.
Sunday	Select the Sunday of the month at which Daylight Saving Time starts here. Press [Enter] to save your selection.
Ending Date	Shows the calculated ending date for daylight saving time, based on the Month and Sunday rules defined above it.
Month	Select the month in which Daylight Saving Time ends here. Press [Enter] to save your selection.
Sunday	Select the Sunday of the month at which Daylight Saving Time ends here. Press [Enter] to save your selection.
Daylight Saving Time Enabled/Disabled	Click this button to toggle between Daylight Saving Time and Standard Time.
Current Time State	This read-only field displays the time state setting to show whether you are in Daylight Saving Time or Standard Time based on the other entries on the page.

2.9 Virtual Ports

UFMs can optionally communicate using virtual ports. A virtual port is a software construct that re-directs messages out an IP port. This allows you to use a terminal server for a communication port. This can be useful when you're working with UFMs, chromatographs, or other third-party devices.

To access the Virtual Ports page, click the button on the I/O tab.

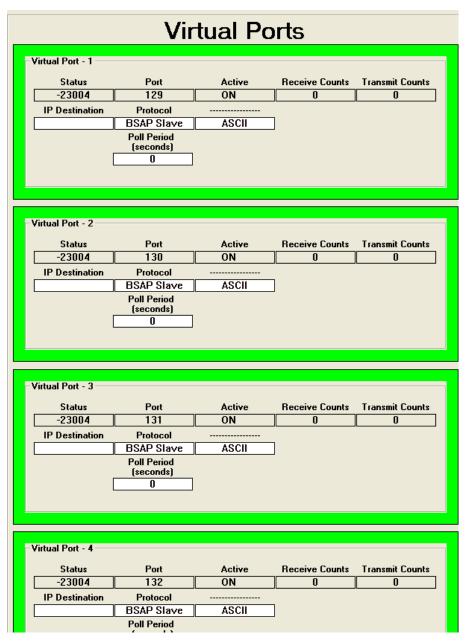


Figure 2-25. Virtual Ports page

Field	Description
Virtual Port n	
Status	Shows the virtual port status code. See the ControlWave Designer online help for VIRT_PORT function block to see what these codes mean.
Port	Shows the virtual port number.
Active	Shows whether the virtual port is currently active.
Receive Counts	Shows a count of messages received on the virtual port.
Transmit Counts	Shows a count of messages transmitted on the virtual port.
IP Destination	Shows the IP address of the remote destination.
Protocol	Shows the communication protocol in use on the virtual port.
Poll Period (Seconds)	Shows the polling period in seconds for the virtual port.

2.10 User Defined Screen

This section discusses the mechanics of developing custom TechView screens. You can add or view screens that display signal data to the TechView Session. You can make custom screens with any PDD signal from the Station Manager Application Load.

To create your own customized Station Manager screens, you need the following tools:

<u>Web page editor (HTML)</u> – You can use any standard HTML development environment (Dreamweaver, Microsoft Visual Web Developer 20xx Express Edition, etc.) to develop TechView Web pages.

<u>JavaScript</u> – You can use any standard JavaScript development environment (Dreamweaver, Microsoft Visual Web Developer 20xx Express Edition, etc.) to develop the JavaScript used in the TechView Web pages.

<u>WebBSI SignalView Grids</u> – Use **SigGen_*.js** (an Emerson-provided helper tool) to configure tables of WebBSI SignalView grids. This configures the tables and creates the SignalView ActiveX controls using a comma separated variable (CSV) file as the source for defining the contents of each cell within a table.

Using this tool provides a level of consistency between developers in the way tables are laid out, the appearance of the tables, and defaults for the WebBSI SignalView controls.

Note: You can locate the *.js, *.htm, and *.css files referenced in this appendix in your Station Manager folder.

To access the User Defined Screens page, click the

User Defined Screen button on the Measurement tab.

Note: See *Chapter 6* for information on using the legacy User Defined Screen feature.

Web Page Development Tutorial

This section is a tutorial to introduce the techniques used to build the TechView Web pages.

For this tutorial, we are going to build a simple display with a table of data that will look this when we are done:

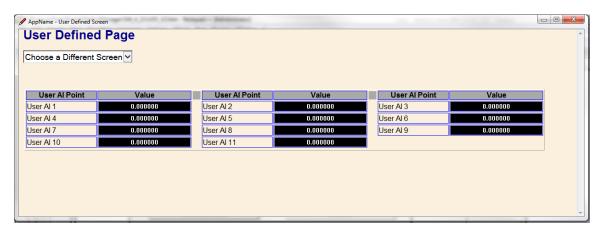


Figure 2-26. User Defined Page

HTML

For developing most web pages, the HTML consists mostly of calling JavaScript functions, which create the HTML tables and populates the tables with text and/or WebBSI ActiveX controls.

Review the UDS_V2.htm file.

Observe the first two lines of the file:

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0
Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-
transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" >
```

These two lines should be left as is. There is no reason to edit them.

Observe that the HTML Head section has been declared as follows:

```
<head>
<title>User Defined Screen</title>
link href= "Stylesheets/WebBSI.css" rel="stylesheet"
type="text/css">
</head>
```

The only thing that should be modified in the Head section is the text between the html tags <title></title>. This should be modified to be an appropriate title for the html page. The other line is where the **WebBSI.css** (cascading style sheet) is referenced, and should not be modified, unless a new style sheet file is required.

The next two lines reference external JavaScript files that contain functions common to all web pages.

```
<script language="javascript"
src="scripts/Initialize.js"></script>
<script language="javaScript"
src="Scripts/SignalGen.js"></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script
```

The next section, between the <script> and </script> html tags, is JavaScript:

```
<script language="JavaScript">
/**********************

* This section of the JavaScript...

/* End New Instance section

*************************

* */
</script>
```

Review this section and read the comments to understand what each section of the JavaScript is doing.

The body section, between the <body> and </body> html tags, is where the web page layout is defined. The opening body tag (<body>) is shown here:

```
<body onload="PageInit(); " class="main">
```

On every web page, there will be a need to call an initialization script. It is recommended that this initialization script be named PageInit, and called with an 'onLoad' function, within the <body> tag,

In addition, we want to apply the same styles to the body of every web page. This is done by referencing the class "main" in the <body> tag. The class "main" is defined in the **WebBSI.css** cascading style sheet.

After the opening <body> tag, we have the next two lines:

```
User Defined Page
User AI Points
```

The formats "title" and "tablehead" are defined in the **WebBSI.css** cascading style sheet. When creating a page, it is recommended you use the "title" for the page title, and the "tablehead" if you want to add a label above a table.

These two lines will look like this on a web page:



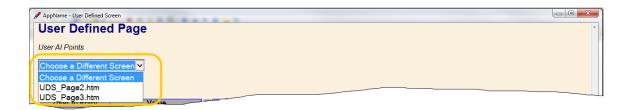
Next, we have a division (<div>) tag:

```
<div align="left" id="DivSelect">
```

We are aligning everything in this division to the left, we also assigned an id, "DivSelect", to it so that it can be referenced elsewhere if desired.

Then, we have the following lines:

This is a standard selection box. In this example, we are choosing to pass a parameter with a value of 0 to n, where n is any number of pages added by the user. The figure shows 0 to 2 pages to select. This will look like this on the page:



Next, we have the following lines:

```
<script type="text/javascript">
  var AliasArray = new Array(0);
  var SymbolArray = new Array(0);
```

This is the absolute minimum amount of JavaScript code required to create an HTML Table with static text and live values from the RTU.

We do have to declare an AliasArray and a SymbolArray, to be passed into the WriteTableWithObjs function.

The key line of code on this web page is this one:

```
WriteTableWithObjs("UDS_V2.csv", 0, 0,
AliasArray, SymbolArray);
```

The WriteTableWithObjs function is a function that will read a comma separated variable file, and return a fully formatted HTML table, including static text and live values from the ControlWave Micro.

The CSV file is created using the following rules:

A new table is indicated by starting a line with an asterisk (*). A new cell is created after each comma. If column labels are required, they may be entered in this line. The cell width will be defined in this line. If you want to include both a column label and a width, separate the two with a semicolon.

Example:

```
*User AI Point; width=150, Value; width=200,; width=15, User AI Point; width=150, Value; width=200,; width=15, User AI Point; width=150, Value; width=200
```

The above CSV data will create an eight column table. The first row of this table will look like this:

User Al Point Value User Al Point Value User Al Point Value

When adding additional lines to the table, the following rules apply:

- No other line in the table can start with an asterisk (*), because that indicates a new table.
- If a cell contains just a label, add the text as you wish it to appear.
- If you want to include a SignalView ActiveX control in a cell, the cell must start with the dollar sign (\$) followed immediately by the ControlWave signal name.
- If you want to change the default SignalView ActiveX control properties, the properties must be separated by a semi-colon. Any of

the SignalView ActiveX control properties may be set in the CSV file.

Example:

```
User AI 1
,$IO_1.HWAIs_1.HWAI_86;rights=8;BackColor=000000;ForeColor
=16777215;Format=0;BackColor=000000;ForeColor=16777215,,
User AI 2
,$IO_1.HWAIs_1.HWAI_87;rights=8;BackColor=000000;ForeColor
=16777215;Format=0;BackColor=000000;ForeColor=16777215,,
User AI 3
,$IO_1.HWAIs_1.HWAI_88;rights=8;BackColor=000000;ForeColor
=16777215;Format=0;BackColor=000000;ForeColor=16777215
```

Note: At this time, the WriteTableWithObjs function does not support breaking a line in the CSV file. The above line is wrapped in this document. However, in the original CSV file, this is a single line.

The above CSV (in conjunction with the Table header line) looks like this:



After the end division tag (</div>) we have the remaining code:

This generates the link at the bottom of the page.

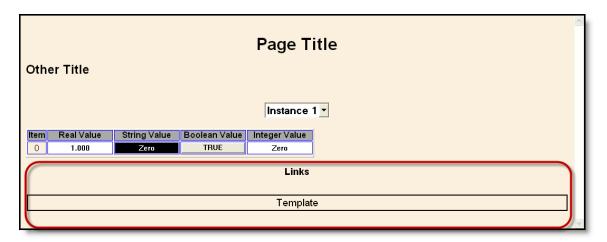


Figure 2-27. Example – Links added to page

In our example, it just reopens the UDS V2.htm page.

As the comment states, the CreateFooterLinks is a JavaScript function in the **SignalGen.js** file. This function has the following parameters - obj, LinksArray)

obj is the document object id, (i our example it is the division tag id - <div id="Footer"> or Footer). This is where the Html is returned.

LinksArray is an array of fully-formed Html Links – in our example:

```
Instance=0;
LinksArray[0]="<a href=\"UDS_V2.htm?Instance="" + Instance
+ "\"> Template</a>";
```

We pass links into the LinksArray, so that we can have a variable number of Links at the bottom of the page. Although we can pass any number of Links into the LinksArray object, the maximum practical number of links is 10, based on web page sizing and table sizing.

The </body> and </html> tags are the end tags required to close the body of the page and the html section of the page.

2.11 Coriolis Modbus Interface (6-Run Version ONLY)

Click the Coriolis button to open this page.

Customers have used the following Coriolis meters with Station Manager:

- Micro Motion Series 1000 Transmitters
- Micro Motion Series 2000 Transmitters

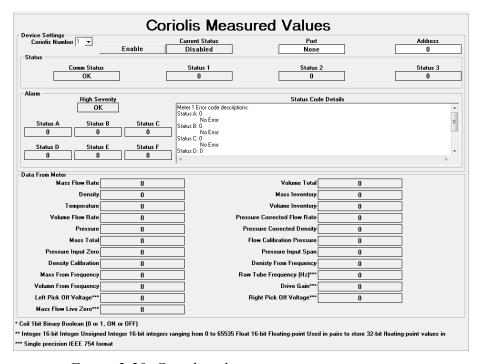


Figure 2-28. Coriolis tab

Field

Field Device Settings	Description
Coriolis Number	Select the Coriolis meter number for which you want to view Modbus data.
Enable/Disable	Click Enable to enable communications with the coriolis meter. Click Disable to disable communications with the coriolis meter.
Current State	Shows the whether communications with the coriolis meter are enabled or disabled.
Port	Shows the port used by the coriolis meter.
Address	Shows the address for this coriolis meter.
Status	

Comm Status	Shows the co	mmunication status of the specified coriolis meter.
Status 1	Status of Modbus communications for data block 1.	
Status 2	Status of Moo	Ibus communications for data block 2.
Status 3	Status of Modbus communications for data block 3.	
<u>Alarm</u>		
High Severity	High severity alarm status from Modbus coil address 0069.	
Status A	Shows the sta	atus code from Modbus register address 0419.
	Bit Number	Description
	Bit #0	(E)EPROM checksum error, core processor
	Bit #1	RAM test error, core processor
	Bit #2	Not used
	Bit #3	Sensor not vibrating
	Bit #4	Temperature sensor out of range
	Bit #5	Calibration failure
	Bit #6	Other failure occurred
	Bit #7	Transmitter initializing/warming up
	Bit #8	Primary variable out of limits
	Bit #9	Non-primary variable out of limits
	Bit #10	Not used
	Bit #11	Not used
	Bit #12	Watchdog error
	Bit #13	Cold start occurred
	Bit #14	Transmitter configuration changed (HART bit)
	Bit #15	High-severity alarm(s) active
Status B		atus code from Modbus register address 0420.
Otatas B	oter 3 – Bit	ter 4 – Description
	Number	Description
		Drimary mA output acturated
	Bit #0 Bit #1	Primary mA output saturated Secondary mA output saturated
	Bit #2	Primary mA output fixed
	Bit #3	Secondary mA output fixed
	Bit #4	Density overrange
	Bit #5	Drive overrange
	Bit #6	Not used
	Bit #7	External input failure
	Bit #8	(E)EPROM checksum failure, core processor
	Bit #9	RAM diagnostic failure, core processor
	Bit #10	Sensor not responding (no tube interrupt)
	Bit #11	Temperature sensor out of range
	Bit #12	Input overrange
	Bit #13	Frequency/pulse output saturated
	Bit #14	Transmitter not characterized (flow calibration factor or sensor
		type)
	Bit #15	Not used
Status C	Shows the sta	atus code from Modbus register address 0421.
	Bit Number	Description
	Bit #0	Burst mode enable
	Bit #1	Power reset occurred

	Bit #2	Transmitter initializing/warming up
	Bit #3	Sensor/transmitter communication failure (A28)
	Bit #4	Paper out
	Bit #5	Event 2 ON
	Bit #6	Event 1 ON
	Bit #7	Sensor/transmitter communication failure (A26)
	Bit #8	Calibration failure
	Bit #9	Zero value too low
	Bit #10	Zero value too high
	Bit #11	Zero too noisy
	Bit #12	Transmitter electronics failure
	Bit #13	Data loss possible
	Bit #14	Calibration in progress
	Bit #15	Slug flow
Status D	Shows the sta	atus code from Modbus register address 0422.
otatas B	Bit Number	Description
		API: Temperature outside standard range
	Bit #0	AFI. Temperature outside standard range
	Bit #1	API: Density outside standard range
	Bit #2	"Line RTD" temperature out of range
	Bit #3	"Meter RTD" temperature out of range
	Bit #4	Flow direction (0=Forward or Zero flow, 1=Reverse)
	Bit #5	Not used
	Bit #6	Enhanced density: Unable to fit curve data
	Bit #7	Last measured value override active
	Bit #8	
	Bit #9	Enhanced density extrapolation alarm Transmitter not configured (flow calibration factor)
	Bit #10	(E)EPROM checksum error
	Bit #10	RAM test error in transmitter
	Bit #12	Invalid/unrecognized sensor type (K1 value)
	Bit #13	(E)EPROM database corrupt in core processor (E)EPROM power down totals corrupt in core processor
	Bit #14	
	Bit #15	(E)EPROM program corrupt in core processor
Status E		atus code from Modbus register address 0423.
	Bit Number	<u>Description</u>
	Bit #0	Core processor boot sector fault
	Bit #1	Transmitter software upgrade recommended
	Bit #2	Frequency output fixed
	Bit #3	Not used
	Bit #4	DO1 status (0=OFF, 1=ON)
	Bit #5	DO2 status (0=OFF, 1=ON)
	Bit #6	T-Series D3 calibration in progress
	Bit #7	T-Series D4 calibration in progress
	Bit #8	DO3 status (0=OFF, 1=ON)
	Bit #9	Not used
	Bit #10	Temperature slope calibration in progress
	Bit #11	Temperature offset calibration in progress
	Bit #12	Flowing density calibration in progress
	Bit #13	High-density calibration in progress
	Bit #14	Low-density calibration in progress
	Bit #15	Flowmeter zeroing in progress
Status F		atus code from Modbus register address 0420.
	Bit Number	Description
	Bit #0	Discrete input 1 status (0=OFF, 1=ON)
	Bit #1	Discrete input 1 status (0-OFF, 1-ON) Discrete input 2 status (0-OFF, 1-ON)
	Bit #2	Discrete output 1 fixed
	Bit #3	Discrete output 2 fixed
	Bit #4	Discrete output 3 fixed
	Bit #5	Not used
	Bit #6	Security breach
	B. 115	L
	Bit #7 Bit #8	Frequency input saturated Batch/fill timeout

	Bit #9	Batch/fill in progress	
	Bit #10	Batch end warning	
	Bit #11	Batch overrun	
	Bit #12	Batch pump	
	Bit #13	Batch/fill primary valve	
	Bit #14	Batch/fill secondary valve	
	Bit #15	Not used	
Status Code Details	Shows additional information based on the error codes.		
Data From Meter			
Mass Flow Rate	The mass flow rate from Modbus register pair 0247/0248.		
Density	The density from Modbus register pair 0249/0250.		
Temperature	The temperature from Modbus register pair 0251/0252.		
Volume Flow Rate	The volume flow rate from Modbus register pair 0253/0254.		
Pressure	The internally derived pressure from Modbus register pair 0257/0258.		
Mass Total	The mass t	otal from Modbus register pair 0259/0260.	
Pressure Input Zero	The pressure input at 4 mA from Modbus register pair 0273/0274.		
Density Calibration	The density for flowing density calibration from Modbus register pair 0277/0278.		
Mass From Frequency	The mass flow rate meter factor from Modbus register pair 0279/0280.		
Volume From Frequency	The volume flow rate meter factor from Modbus register pair 0281/0282.		
Left Pick Off Voltage	The left pickoff voltage (in millivolts) from Modbus register pair 0287/0288.		
Mass Flow Live Zero	The mass flow live zero flow from Modbus register pair 0293/0294.		
Volume Total	The volume total from Modbus register pair 0261/0262.		
Volume Total			

Volume Inventory	The volume inventory from Modbus register pair 0265/0266.
Pressure Corrected Flow Rate	The pressure correction factor for flow from Modbus register pair 0267/0268.
Pressure Corrected Density	The pressure correction factor for density from Modbus register pair 0269/0270.
Flow Calibration Pressure	The flow calibration pressure from Modbus register pair 0271/0272.
Pressure Input Span	The pressure input at 20 mA from Modbus register pair 0275/0276.
Density From Frequency	The density meter factor from Modbus register pair 0283/0284.
Raw Tube Frequency (Hz)	The raw tube frequency (in Hz) from Modbus register pair 0285/0286.
Drive Gain	The drive gain (in %) from Modbus register pair 0291/0292.
Right Pick Off Voltage	The right pickoff voltage (in millivolts) from Modbus register pair 0289/0290.

Chapter 3 – Configuring Stations, Runs, and Valves (Measurement Tab)

This chapter discusses configuring the stations and meter runs for the Station Manager application as well as all the measurement functions for the various meter runs. This is accomplished from the Station Manager's Measurement tab.

In This Chapter

3.1		nent Tab	
3.2		nfiguration	
		Up Menus	
		g / Hiding Sections of the Page	3-6
	3.2.1	RTU Configuration Tab (Site Configuration)	
	3.2.2	MVT Common Settings Tab (Site Configuration)	
	3.2.3	Station Summaries Tab (Site Configuration)	
	3.2.4	Historical Configuration Tab (Site Configuration)	
	3.2.5	Comm Configuration Tab (Site Configuration)	
	3.2.6	Station Configuration Tab (Station Configuration)	
	3.2.7	Station Data Tab (Station Configuration)	
	3.2.8	Bi-Directional Control Tab (Station Configuration)	
		es for Configuring Bi-Directional Control	3-48
	Example	e 1– Bi-Directional Control with One Orifice Measurement Run, Flow	0.46
		Reverses Direction, Non-Isolated Transmitters	
	Example	e 2– Bi-Directional Control for One Measurement Run, Flow in One Dire	
		Isolated Transmitters	3-54
	Example	e 3– Bi-Directional Control For One Measurement Run, Flow Reverses	0.00
		Direction, Isolated Transmitters	3-60
	Example	e 4– Bi-Directional Control for One Measurement Run, Flow Reverses	D D
		Direction, Isolated SP and Temp Transmitters, Non-Isolated	
	-	Transmitter	3-66
	Example	e 5– Bi-Directional Control for One Measurement Run, Flow Reverses	0.70
	2.2.0	Direction, Multi-Variable Transmitters (MVTs) Used	
	3.2.9	General tab	
	3.2.10	Alarm Config Tab (Run Configuration)	
	3.2.11	Linearization Config Tab (Run Configuration)	
	3.2.12	PV/GQ Averages Tab (Run Configuration)	
	3.2.13	Orifice Tab (Run Configuration)	
	3.2.14	Turbine Tab (Run Configuration)	
	3.2.15	Auto-Adjust Tab (Run Configuration)	
	3.2.16	Ultrasonic Tab (Run Configuration)	
	3.2.17	PD Tab (Run Configuration)	
	3.2.18	Coriolis Tab (Run Configuration)	
	3.2.19	Annubar Tab (Run Configuration)	
	3.2.20	Venturi (Run Configuration)	
	3.2.21	V-Cone tab (Run Configuration)	
	3.2.22	Control Valve Config	
	3.2.23	Process Values	
	3.2.24	Al Maintain and a second secon	
	3.2.25	Al Maintenance	
	3.2.26	Site Maintenance	
	3.2.27	Station Maintenance	
2.0	3.2.28	Run Maintenance	
3.3		matograph Configuration	
	3.3.1	General	J-140

	3.3.2	Current Tab (Gas Chromatograph Configuration)	3-146
	3.3.3	Component Tab (Gas Chromatograph Configuration)	3-148
	3.3.4	Delta Limit Tab (Gas Chromatograph Configuration)	3-150
	3.3.5	Normalization Tab (Gas Chromatograph Configuration)	3-151
	3.3.6	Custom Tab (Gas Chromatograph Configuration)	3-152
3.4	Gas Chrom	atograph RF Configuration	3-154
3.5	Summary P	Pages	3-157
	3.5.1	Measurement Tab	3-157
	3.5.2	Measurement Detail Tab	3-157
	3.5.3	PID Control Tab	3-159
	3.5.4	Meter Run Staging Tab	3-160
	3.5.5	Alarm Tab	3-161
3.6	Water Vapo	or Content	3-162
3.7	List 29		3-164
3.8	Al Maintena	ance	3-171
	3.8.1	Al Configuration	3-176

3.1 Measurement Tab

Click the Measurement tab to display the measurement options you can configure. We'll discuss each of these in the sections that follow.

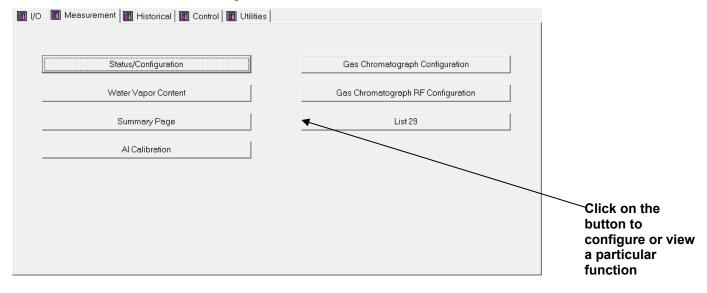


Figure 3-1. Measurement Tab

3.2 Status/Configuration

When you click the Status/Configuration button on the Measurement tab, Station Manager opens up a tree structure with icons showing the site along with the various station, meter run, and control valves you can potentially configure in the Station Manager.

Which ones you configure vary depending upon your site requirements, the type and number of meter runs, and other local characteristics of your system.

Note: The Status/Configuration button allows you to fully configure a station, meter run, or control valve. The screens it opens are slightly modified versions of those available in previous releases of Station Manager. Modifications were made to reduce screen clutter and improve the ease of configuration in Windows 7. If you have Windows XP, you can also use these screens, or you can continue to use the older Status/Configuration screens accessible through the Legacy Controls tab. The older Status/Configuration screens on the Legacy Controls tab do not support use under Windows 7.

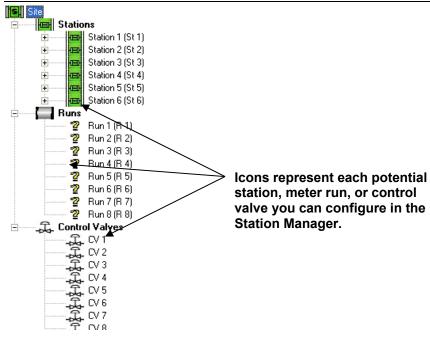


Figure 3-2. Configuration Tree Structure

The tree structure includes several different icons, and icons can change based on your configuration choices. *Table 3-1* shows the icons you may encounter.

Table 3-1. Icons Used in the Configuration Tree

lcon	Represents	Usage	
	Site	The site icon is for the geographic or organizational site associated with this copy of the Station Manager. The "S" in the icon distinguishes it from the station icon.	
l <mark>es</mark>	Station	Each station controls one or more meter runs, and typically, one or more control valves. Station Manager supports up to six different stations at a site.	
	Runs section of the tree	The different meter runs you can define appear underneath this branch of the tree.	
2	Run with undefined measurement type	Until you specify a meter type, the run icon is a question mark.	
	Orifice meter run	If you configure the meter type as Orifice you'll see this icon.	
- (v	Linear meter run	If you configure any of these meter types, you'll see this icon. Turbine (turbine meter) Auto-adjust (auto-adjust turbine meter) Ultrasonic (ultra-sonic meter) PD (positive displacement meter)	
茎	Coriolis meter run	If you configure the meter type as Coriolis you'll see this icon.	
•	Annubar	If you configure the meter type as Annubar you'll see this icon.	
	Venturi meter run	If you configure the meter type as Venturi you'll see this icon.	
+	Plus Sign	Click on to expand the tree item to show more branches of information for an item.	
Ξ	Minus Sign	Click on to hide tree branches to show less information.	

Valves to a Station using Drag and Drop

Assigning Runs or Meter runs and control valves cannot exist independently within the Station Manager; you must assign them to a particular station. There are different ways to assign meter runs or control valves to a particular station. One way to do that is to drag and drop the icon for the run or valve onto the station name to which you want to assign it. When you

drag, you'll see a valve or run icon, and you drag it right onto the station name.

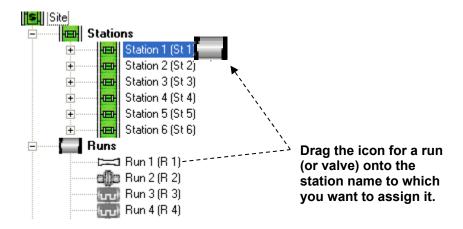
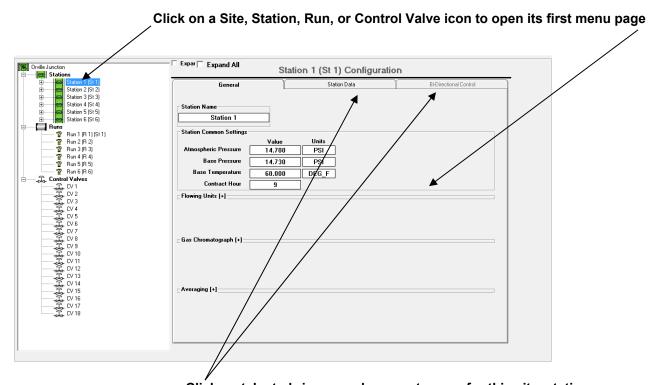


Figure 3-3. Assigning a Run or Valve to a Station Using Drag and Drop

Calling Up Menus

There are different ways you can access pages.

To call up the first page for a particular site, station, run, or control valve, you can just click on its icon, and the first menu opens. Then you can click on page tabs to bring up other configuration pages associated with that site, station, run, or control valve.



Click on tabs to bring up subsequent pages for this site, station, run, or valve

Figure 3-4. Opening Menus by Clicking on a Station

You can also call up the same pages if you *right*-click on the icon for a site, station, run, or control valve, and select an option from the pop-up menus.

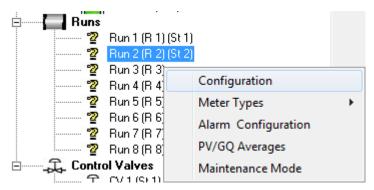


Figure 3-5. Selecting Pages From Pop-up Menus

Showing / Hiding Sections of the Page

Some pages include sections that are initially hidden to reduce screen clutter and allow you to focus on the most important items for the current task at hand.

For example, on the Station Configuration page, the Flowing Units, Gas Chromatograph, and Averaging sections are hidden when you first open the page.

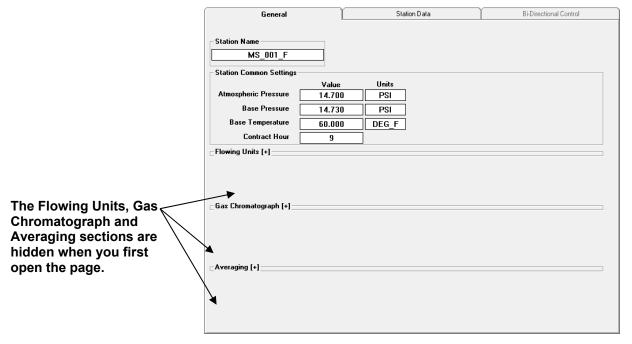


Figure 3-6. Hidden Sections on the Page

To view any of the hidden sections, select the **Expand All** check box in the upper left corner of the page. The **Expand All** setting applies until you uncheck it.

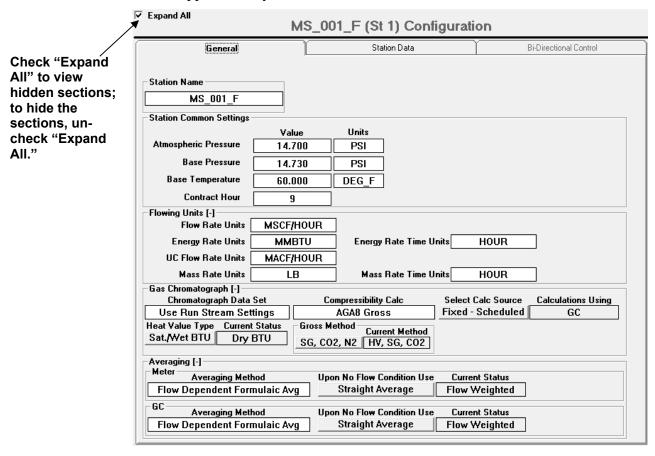
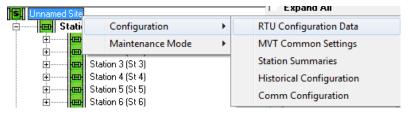


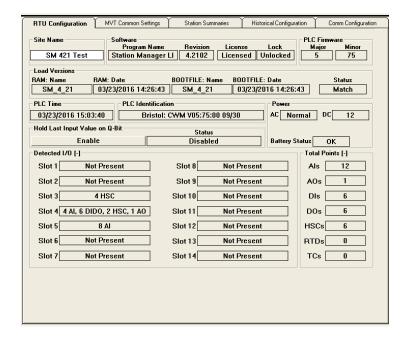
Figure 3-7. Viewing All Fields in a Section

3.2.1 RTU Configuration Tab (Site Configuration)

The RTU Configuration tab shows basic information about the site. You can call it up by clicking on the icon for the site, or right-click on the icon for the site and select **Configuration > RTU Configuration Data** from the pop-up menus.



Note: For information about using Maintenance Mode for the site, see *Section 3.2.26*.



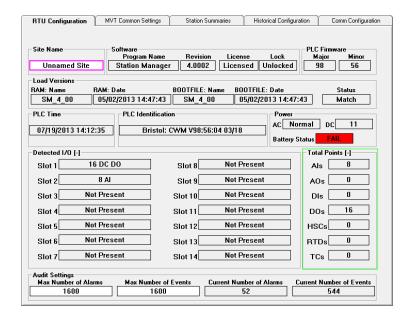


Figure 3-8. RTU Configuration tab (8-Run Top, 6-Run Bottom)

Field Description Site Name The site refe

The **site** refers to the geographical location or an organizational name associated with this Station Manager controller. You might name the site after the RTU node name or a place. Enter a name and press the **[Enter]** key to save your entry.

Software

Program Name

This read-only field shows the name of the Station Manager software installed on the RTU.

Revision	This read-only field shows the revision of the Station Manager software running on the RTU.	
	The revision is in the format <i>V.v</i> Rnn	
	Where:	
	 V is the major version number v is the minor version number Rnn is the revision build number, if this is a revision release of the software. 	
License	Shows whether your application is licensed.	
Lock	Shows whether your application is locked.	
PLC Firmware	These fields refer to the ControlWave internal system firmware that controls operation of the ControlWave Micro.	
Major	This read-only field shows the major revision number of the system firmware running in the ControlWave Micro.	
Minor	This read-only field shows the minor revision number of the system firmware running in the ControlWave Micro.	
<u>Load Versions</u>	The load version fields let you compare the revisions of the ControlWave project stored in flash (ControlWave bootproject) and the revision of the ControlWave project currently executing in SDRAM.	
RAM: Name	This read-only field shows the name of the ControlWave project executing in the ControlWave Micro's SDRAM.	
RAM: Date	This read-only field shows the date and time stamps of the ControlWave project executing in the ControlWave Micro's SDRAM. Dates use the format <i>mm/dd/yyyy</i> where <i>mm</i> is the two-digit month (01 to 12), <i>dd</i> is the two-digit day (01 to 31), and <i>yyyy</i> is the four-digit year. Timestamps are in the format <i>hh:mm:ss</i> where <i>hh</i> is the 2-digit hour (0 to 23), <i>mm</i> is the 2-digit minute (0 to 59) and <i>ss</i> is the two-digit second (0 to 59).	
BOOTFILE: Name	This read-only field shows the name of the ControlWave bootproject stored in FLASH at the ControlWave Micro.	
BOOTFILE: Date	This read-only field shows the date and time stamps of the ControlWave bootproject stored in FLASH at the ControlWave Micro. Dates use the format <i>mm/dd/yyyy</i> where <i>mm</i> is the two-digit month (01 to 12), <i>dd</i> is the two-digit day (01 to 31), and <i>yyyy</i> is the four-digit year.	

	Timestamps are in the format <i>hh:mm:ss</i> where <i>hh</i> is the 2-digit hour (0 to 23), <i>mm</i> is the 2-digit minute (0 to 59) and ss is the two-digit second (0 to 59).
Status	This read-only field shows Match if the name and date of the ControlWave project executing in SDRAM is identical to that for the bootproject stored in FLASH.
	If this field shows Mismatch this indicates that the ControlWave project executing in SDRAM is not the same as the bootproject.
	This is an error condition because if the unit restarts for any reason, the bootproject overwrites the project executing in SDRAM on restart and you will lose the SDRAM project.
PLC Time	This read-only field shows the current date and time stamps of the ControlWave Micro's real time clock. Dates use the format <i>mm/dd/yyyy</i> where <i>mm</i> is the two-digit month (01 to 12), <i>dd</i> is the two-digit day (01 to 31), and <i>yyyy</i> is the four-digit year. Timestamps are in the format <i>hh:mm:ss</i> where <i>hh</i> is the 2-digit hour (0 to 23), <i>mm</i> is the 2-digit minute (0 to 59) and <i>ss</i> is the two-digit second (0 to 59).
PLC Identification	This read-only field identifies boot PROM firmware installed in the ControlWave Micro. To use the Station Manager application, your boot PROM firmware must have the prefix CWM .
<u>Power</u>	These fields show information about power status at the ControlWave Micro.
AC	This read-only field shows the status of AC power as indicated through a discrete input I/O point.
DC	This read-only field shows the DC voltage level at the ControlWave Micro's power supply sequencer module (PSSM).
Battery Status	This read-only field shows the status of the SRAM backup battery in the ControlWave Micro.
Hold Last Input Value on Q-Bit (8-Run only)	The Hold Last Input Value on Q-Bit setting determines what happens if flow calculation input values become questionable.
Enable/Disable	Click Enable if you want to use the last good input value (non-questionable value) in your flow calculations if the questionable data bit comes on for one of the inputs. The Status field shows Enabled when this option is active. Click Disable if you always want to use the current input value in your flow calculations even if the questionable data bit is on for an input. The Status

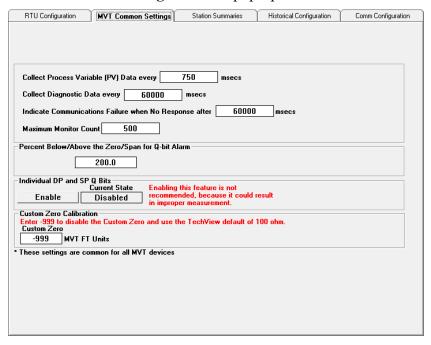
	field shows Disabled when this option is active.
Status	This read-only field shows Disabled if the system always uses the current input values in flow calculations, even if they have questionable data. The field shows Enabled if Station Manager should substitute the last good input value(s) for flow calculation input(s) whenever the questionable data bit is on for those inputs. If the questionable data bit is not on, Station Manager uses the current input values in flow calculations.
Detected I/O	If not shown, click the [+] to display these fields. These fields show the types of I/O modules detected by the Station Manager as being installed in the ControlWave Micro.
Slot n	This read-only field shows details of the installed I/O module that the Station Manager detects in this ControlWave Micro slot. The slot number from 1 to 14 refers to slots in the base and expansion housings.
Total Points	If not shown, click the [+] to display these fields. These fields show the total number of different types of I/O points from all the I/O modules detected by the Station Manager application.
Als	This read-only field shows the total number of analog inputs residing across all I/O modules detected by the Station Manager application.
AOs	This read-only field shows the total number of analog outputs residing across all I/O modules detected by the Station Manager application.
DIs	This read-only field shows the total number of discrete inputs residing across all I/O modules detected by the Station Manager application. Note: This count includes all possible DIs, including a DI/DO point configured as a DO.
DOs	This read-only field shows the total number of discrete outputs residing across all I/O modules detected by the Station Manager application. Note: This count includes all possible DOs, including a DI/DO point configured as a DI.
HSCs	This read-only field shows the total number of high speed counter inputs residing across all I/O modules detected by the Station Manager application.
RTDs	This read-only field shows the total number of resistance temperature device inputs residing across all I/O modules detected by the Station Manager application.

TCs	This read-only field shows the total number of thermocouple inputs residing across all I/O modules detected by the Station Manager application.
Audit Settings (6-Run only)	These settings configure the number of alarms and events that can be stored in the audit log before the application is locked to prevent further configuration changes. This section also shows counts of the current number of alarms and events in the audit log.
Max Number of Alarms	Specify the maximum number of alarms to be kept in the audit log. When the total number of alarms in the log reaches this number, older alarms must be read from the audit log before further configuration changes can be made.
Max Number of Events	Specify the maximum number of events to be kept in the audit log. When the total number of events in the log reaches this number, older events must be read from the audit log before further configuration changes can be made.
Current Number of Alarms	This shows the current number of alarms in the audit log.
Current Number of Events	This shows the current number of events in the audit log.

3.2.2 MVT Common Settings Tab (Site Configuration)

Field

This page configures details for the multivariable transmitter/transducer (MVT). You can call it up by clicking on the MVT Common Settings tab, or right-click on the icon for the site and select Configuration > MVT Common Settings from the pop-up menus.



Description

Figure 3-9. MVT Common Settings tab

Collect Process Variable (PV) Data every msecs	Enter how often (in milliseconds) the ControlWave Micro should collect process variable (PV) data. For natural gas measurement in custody transfer applications, the API requires updates no less frequent than 1.0 second (1,000 milliseconds). The ControlWave Micro can communicate with up to eight (8) MVTs per second using a single RS-485 port at 19,200 baud. Press the [Enter] key to save your entry.
Collect Diagnostic Data every msecs	Enter how often to collect diagnostic data from the MVT (in milliseconds). You should not set the interval of this collection to be very short, because it may interfere with the higher priority PV data collection. Press the [Enter] key to save your entry.
Indicate Communications Failure when No Response after msecs	Enter the period (in milliseconds) that the Station Manager application waits before declaring that a loss in communications to the MVT constitutes a communications timeout.

Maximum Monitor Count	Enter the maximum number of polls that the Station Manager application uses to count good/bad polls and determine the %good.
Percent Below/Above the Zero/Span for Q-bit Alarm	This is the percent of span to use for determining a failed PV.
Individual DP and SP Q Bits Disable/Enable button and Current State field	Disables or enables separate DP and SP PV Q (failure) bits. Not recommended as MVTs use common hardware for the DP & SP sensors. The current setting appears in the Current State field.
Custom Zero Calibration	
MVT FT	You can enter a custom zero calibration value for the flowing temperature variable in the MVT here. If you want to use the default zero calibration value of 100 ohms (±0.01%), enter -999 in this field.

3.2.3 Station Summaries Tab (Site Configuration)

The Station Summaries tab shows flow, energy, and volume readings for each configured station. You can call it up by clicking on the **Station Summaries** tab or right-click on the icon for the site and select **Configuration** > **Station Summaries** from the pop-up menus.

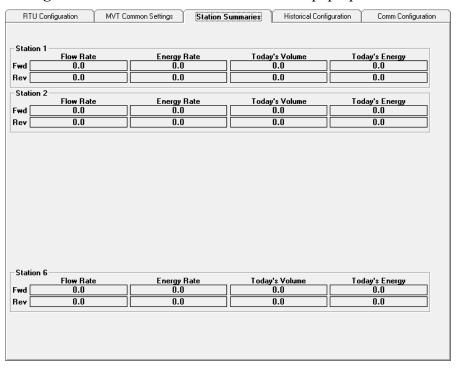


Figure 3-10. Station Summaries tab

Note: Fields appear grayed out if the station is not configured.

Field	Description
Station n	Identifies one of the six stations.
Flow Rate Fwd	This read-only field shows the instantaneous flow rate at this station. If this station supports bidirectional flow, this is the instantaneous forward flow rate when flow is in the forward direction (odd) or is the instantaneous reverse flow rate (even).
Flow Rate Rev	This read-only field shows the instantaneous reverse flow rate from the corresponding bi-directional even numbered station when flow is in the reverse direction. (Odd stations only.)
Energy Rate Fwd	This read-only field shows the instantaneous energy rate at this station. If this station supports bi-directional flow, this is the instantaneous forward energy rate when flow is in the forward direction (odd) or is the instantaneous reverse energy rate (even).
Energy Rate Rev	This read-only field shows the instantaneous reverse

	energy rate from the corresponding bi-directional even numbered station when flow is in the reverse direction. (Odd stations only.)
Today's Volume Fwd	This read-only field shows today's accumulated flow total (volume). If this station supports bi-directional flow, this is the accumulated forward flow total when flow is in the forward direction (odd) or is the accumulated reverse flow total (even).
Today's Volume Rev	This read-only field shows today's accumulated flow total from the corresponding bi-directional even numbered station when flow is in the reverse direction. (Odd stations only.)
Today's Energy Fwd	This read-only field shows today's accumulated energy total. If this station supports bi-directional flow, this is the accumulated forward energy total when flow is in the forward direction (odd) or is the accumulated reverse energy total (even).
Today's Energy Rev	This read-only field shows today's accumulated energy total from the corresponding bi-directional even numbered station when flow is in the reverse direction. (Odd stations only.)

3.2.4 Historical Configuration Tab (Site Configuration)

The Historical Configuration page lets you configure certain settings common to the entire site. You can call it up by clicking on the **Historical Configuration** tab or right-click on the icon for the site and select **Configuration > Historical Configuration** from the pop-up menus.

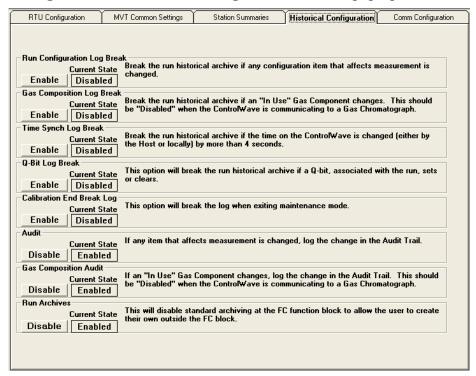


Figure 3-11. Historical Configuration tab

Field	Description
Run Configuration Log Break	If you change a configuration item which affects measurement this would mean that new readings into the historical archive/log would reflect a different configuration; this could cause confusion, therefore you should allow a log break to end the current archive and start a new archive for data reflecting the new configuration.
Enable / Disable	Click Enable to allow a log break, or Disable to prevent a log break.
Current State	This read-only field shows Enabled if a log break is allowed, or Disabled if a log break is not allowed.
Gas Composition Log Break	If an "in use" gas component changes, you should allow a log break. The exception to this is if the ControlWave Micro is communicating with a gas chromatograph; in that case, disable the log break.

Enable / Disable	Click Enable to allow a log break, or Disable to prevent a log break.
Current State	This read-only field shows Enabled if a log break is allowed, or Disabled if a log break is not allowed.
Time Synch Log Break	If the ControlWave Micro's real time clock changes by more than four seconds, either because it receives a time synchronization message from the network, or someone changes the time locally, you can initiate a log break.
Enable / Disable	Click Enable to allow a log break, or Disable to prevent a log break.
Current State	This read-only field shows Enabled if a log break is allowed, or Disabled if a log break is not allowed.
Q-Bit Log Break	If the questionable data flag (Q-bit) status changes to TRUE, indicating incoming data is questionable, you can initiate a log break.
Enable / Disable	Click Enable to allow a log break, or Disable to prevent a log break.
Current State	This read-only field shows Enabled if a log break is allowed, or Disabled if a log break is not allowed.
Calibration End Log Break	If you exit calibration mode, you can initiate a log break.
Enable / Disable	Click Enable to allow a log break, or Disable to prevent a log break.
Current State	This read-only field shows Enabled if a log break is allowed, or Disabled if a log break is not allowed.
Audit	If any change occurs that affects measurement, you can include an audit message about the change in the audit system.
Enable / Disable	Click Enable to allow the system to log an audit entry for changes affecting measurement, or click Disable to prevent this logging.
Current State	This read-only field shows Enabled if audit logging of changes is allowed, or Disabled if audit logging of changes is prevented.
Gas Composition Audit	If any change to an "in use" gas component occurs, you should include an audit message about the change in the audit system. The exception to this is if the ControlWave Micro is communicating with a gas chromatograph; in that case, disable the audit logging

	for this.
Enable / Disable	Click Enable to allow the system to log an audit entry for changes to "in use" gas components, or click Disable to prevent this logging.
Current State	This read-only field shows Enabled if audit logging of "in use" gas component changes is allowed, or Disabled if audit logging of these changes is prevented.
Run Archives	This function lets you optionally turn off the pre- configured FC function block included in the Station Manager application, in order to configure a different ARCHIVE function block according to your own needs.
Enable / Disable	Click Enable to allow the system to perform archiving using the pre-configured FC function block. Click Disable to prevent this archiving, and instead configure a different ARCHIVE function block according to your own needs.
Current State	This read-only field shows Enabled if archiving using the pre-configured FC function block is active or Disabled if you have turned OFF the FC function block operation.

3.2.5 Comm Configuration Tab (Site Configuration)

The Comm Configuration page lets you configure communication settings common to the entire site. You can call it up by clicking on the Comm Configuration tab or right-click on the icon for the site and select Configuration > Comm Configuration from the pop-up menus.

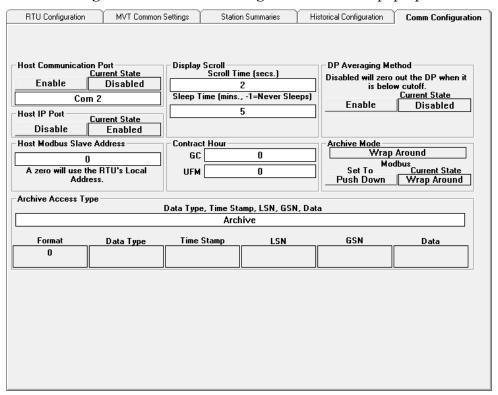


Figure 3-12. Comm Configuration tab

Field	Description
Host Communication Port	
Enable/Disable	Click this button to allow (enable) or prevent (disable) communications to a SCADA host computer.
Current State	This read-only field shows Enabled if communications to a host SCADA computer are allowed, or Disabled if communications to a host SCADA computer are not allowed.
Com n	Use the drop-down menu to select the ControlWave Micro communication port used to communicate with the SCADA host computer and press the [Enter] key to save your selection.
Host IP Port	
Enable / Disable	Click this button to allow (enable) or prevent (disable) IP communications to a SCADA host computer.
Current State	This read-only field shows Enabled if IP communication to a SCADA host computer is allowed,

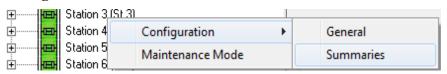
or Disabled if IP communication to a SCADA host computer is not allowed.
Enter a slave address for the Modbus host if you don't want to use the RTU's local address.
Enter the desired time (in seconds) the keypad/display should present a particular screen before scrolling to the next screen here and press the [Enter] key to save the value.
Enter the desired sleep time (in minutes) for the keypad/display. If there is no keypad activity for this length of time, the display shuts off to conserve power. If you set this to "-1" the display does not sleep.
Specify the contract hour to start daily GC archives.
Specify the contract hour to start daily UFM archives.
always flow-dependent time-weighted linear averaging. If the flow falls below a pre-determined cutoff point, you may want to set the collected DP value to zero, rather than attempting to include what may be inaccurate low DP values; to do this, click this button so that Enabled shows as the current state. Otherwise, leave it at Disabled .
This read-only field shows Enabled if the low flow cutoff DP averaging method is allowed, or Disabled if it is not allowed.
til you configure the archive mode, the Station nager application cannot store any data.
This read-only field shows whether the data is archived in push down mode or wrap around mode In Push Down Mode each new record of data pushes the previous records further down into the data structure, and the last record is deleted. In Wrap Around Mode each new incoming record of data overwrites the oldest record.
Use the button to toggle the archive mode to the one shown on the label of the button:

Click Wrap Around to set it to Wrap Around; the Current State now shows "Wrap Around" and the label on the button changes to "Push Down."
Click Push Down to set it to Push Down; the Current State now shows "Push Down" and the label on the button changes to "Wrap Around."

Archive Access Type	
Data Type selection box	Choose the type of archive data in the archive you want to view, so Station Manager can display it properly.
Format	Shows the archive mode. For a description of the different modes, see the online help in ControlWave Designer for the ARCHIVE function block.
Data Type	Shows the type of data.
Time Stamp	Shows the time stamp of the archive record.
LSN	Optionally shows the local sequence number of the archive record.
GSN	Optionally shows the global sequence number of the archive record.
Data	Shows the data for the archive record.

3.2.6 Station Configuration Tab (Station Configuration)

Station Manager supports up to six individual stations. Each station supports one or more meter runs. Either left click on a station icon, or right-click on the icon and choose from the pop-up menu to open menus for that station. To access the Station Configuration tab, choose **Configuration > General**.



Note: For information on Maintenance Mode for the station, see *Section* 3.2.27

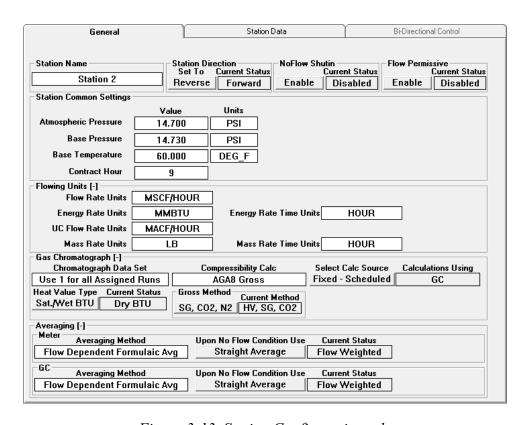


Figure 3-13. Station Configuration tab

Field	Description
Station Name	The station refers to the natural gas measurement station. Each station has one or more meter runs assigned to it. Enter a name and press the [Enter] key to save your entry.
Station Direction	The Station Direction fields only appear for even numbered (2, 4, or 6) stations; odd numbered stations are always "Forward" direction.

Set To Reverse / Forward	The current direction for the station is reflected in the Current Status field. Click this button to toggle the direction to that shown on the button.
	It this station is to be an independent station, not part of a bi-directional pair of stations, then select "Forward."
	If this station is going to be part of a bi-directional pair of stations, select "Reverse." See <i>Section 3.2.8</i> for information on bi-directional control.
Current Status Reverse / Forward	Shows the current direction configured for this station.
Noflow Shutin	When NoFlow Shutin is enabled, if no station flow is detected, Station Manager will shut in the station bidirectional block valves.
Enable/Disable	The current status for NoFlow Shutin is reflected in the Current Status field. Click this button to toggle the state to that shown on the button.
Current Status Enabled / Disabled	Shows the current status of NoFlow Shutin for this station.
Flow Permissive	When Flow Permissive is enabled, Station Manager checks for valid flow conditions before changing the direction or enabling PID control.
Enable/Disable	The current status for Flow Permissive is reflected in the Current Status field. Click this button to toggle the state to that shown on the button.
Current Status Enabled / Disabled	Shows the current status of Flow Permissive for this station.
Station Common Setting	<u>s</u>
Atmospheric Pressure Value, Units	Enter the standard atmospheric (barometric) pressure for the station in the Value field and press [Enter] to save your entry. Then select the desired Units of measure from the drop-down menu and press [Enter] to save your selection. The default is 14.7 PSI. Note: Units are absolute pressure units.
Base Pressure Value, Units	Enter the base pressure that the Station Manager application should use when it performs AGA calculations in the Value field and press [Enter] to save your entry. Then select the desired Units of measure from the drop-down menu and press [Enter] to save your selection. The default is 14.73 PSI (absolute).

Base Temperature Value, Units	application shou calculations in th save your entry. measure from th	emperature that the Station Manager Id use when it performs AGA in Value field and press [Enter] to Then select the desired Units of the drop-down menu and press [Enter] ection. The default is 60 Deg F.
Contract Hour	This is when the rolled over to the The contract hou is 13, 2 PM is 14	ar determines the start of the gas day. current day totals and averages get be previous day totals and averages. Use is based on a 24 hour clock; 1 PM and so on. Midnight is 00. Enter the hour and press [Enter] to save your lt is 9 (9AM).
Flowing Units	can select units to (UC) Flow, and E	ck the [+] to display these fields. You for corrected flow (Flow), Uncorrected Energy rates for the combined station rates independently of the meter run
Flow Rate Units	Select the desired units of measure for the corrected flow rate from the drop-down menu and press [Ente to save your selection.	
	Flow rate units in	clude:
	MSCF/YEAR	Thousands of Standard Cubic Feet per Year
	MSCF/DAY	Thousands of Standard Cubic Feet per Day
	MSCF/HOUR	Thousands of Standard Cubic Feet per Hour
	MSCF/MIN	Thousands of Standard Cubic Feet per Minute
	MSCF/SEC	Thousands of Standard Cubic Feet per Second
	E3M3/YEAR	Thousands of Standard Cubic Meters per Year
	E3M3/DAY	Thousands of Standard Cubic Meters per Day
	E3M3/HOUR	Thousands of Standard Cubic Meters per Hour
	E3M3/MIN	Thousands of Standard Cubic Meters per Minute
	E3M3/SEC	Thousands of Standard Cubic Meters per Second
	MMSCF/YEAR	Millions of Standard Cubic Feet per Year
	MMSCF/DAY	Millions of Standard Cubic Feet per Day
	MMSCF/HOUR	Millions of Standard Cubic Feet per Hour
	MMSCF/MIN	Millions of Standard Cubic Feet per Minute
	MMSCF/SEC	Millions of Standard Cubic Feet per Second

E6M3/YEAR	Millions of Cubic Meters per Year
E6M3/DAY	Millions of Cubic Meters per Day
E6M3/HOUR	Millions of Cubic Meters per Hour
E6M3/MIN	Millions of Cubic Meters per Minute
E6M3/SEC	Millions of Cubic Meters per Second
CCF/YEAR	Hundreds of Cubic Feet per Year
CCF/DAY	Hundreds of Cubic Feet per Day
CCF/HOUR	Hundreds of Cubic Feet per Hour
CCF/MIN	Hundreds of Cubic Feet per Minute
CCF/SEC	Hundreds of Cubic Feet per Second

Energy Rate Units

Select the desired units of measure for the energy rate from the drop-down menu and press **[Enter]** to save your selection.

Energy rate units include:

MMBTU	Millions of British Thermal Units
MJ	Megajoules
KJ	Kilojoules
J	Joules
ERG	Ergs
KCAL	Kilocalories
CAL	Calories
CHU	Centigrade Heat Unit
KWH	Kilowatt Hour
QUAD	short scale quadrillion British Thermal Units
THERM	Therms
TONTNT	Tons of TNT
TONCOAL	Tons of coal
MMMBTU	Billions of British Thermal Units
GJ	Gigajoules
BTU	British Thermal Units
MMBTU605	Millions of British Thermal Units at 60.5 degrees F.
MMMBTU605	Billions of British Thermal Units at 60.5 degrees F.
BTU605	British Thermal Units at 60.5 degrees F.

Energy Rate Time Units

Select the desired units of time to associate with the energy rate units from the drop-down menu and press **[Enter]** to save your selection.



UC Flow Rate Units

Select the desired units of measure for the uncorrected flow rate from the drop-down menu and press **[Enter]** to save your selection.

Uncorrected flow rate units include:

MACF/YEAR	Thousands of Actual Cubic Feet per Year
MACF/DAY	Thousands of Actual Cubic Feet per Day
MACF/HOUR	Thousands of Actual Cubic Feet per Hour
MACF/MIN	Thousands of Actual Cubic Feet per Minute
MACF/SEC	Thousands of Actual Cubic Feet per Second
E3M3/YEAR	Thousands of Actual Cubic Meters per Year
E3M3/DAY	Thousands of Actual Cubic Meters per Day
E3M3/HOUR	Thousands of Actual Cubic Meters per Hour
E3M3/MIN	Thousands of Actual Cubic Meters per Minute
E3M3/SEC	Thousands of Actual Cubic Meters pe Second
MMACF/YEAR	Millions of Actual Cubic Feet per Year
MMACF/DAY	Millions of Actual Cubic Feet per Day
MMACF/HOUR	Millions of Actual Cubic Feet per Hour
MMACF/MIN	Millions of Actual Cubic Feet per Minute
MMACF/SEC	Millions of Actual Cubic Feet per Second
E6M3/YEAR	Millions of Cubic Meters per Year
E6M3/DAY	Millions of Cubic Meters per Day
E6M3/HOUR	Millions of Cubic Meters per Hour
E6M3/MIN	Millions of Cubic Meters per Minute
E6M3/SEC	Millions of Cubic Meters per Second
CCF/YEAR	Hundreds of Cubic Feet per Year
CCF/DAY	Hundreds of Cubic Feet per Day
CCF/HOUR	Hundreds of Cubic Feet per Hour

	CCE/MINI	Hundrada of Cubia Fact per Minute
	CCF/MIN CCF/SEC	Hundreds of Cubic Feet per Minute Hundreds of Cubic Feet per Second
	0017020	randicas of Sasion Set per Second
Mass Rate Units	Select the ma	ass rate units. Choices are:
made rate dinte	LB	is pounds
	MG	is milligrams
	KG	is kilograms
	G	is grams
	USTON	is a United States ton
	UKTON	is a United Kingdom ton
	MTON	is a metric ton
	OZ	is an ounce
	TROYOZ	is a troy ounce
	GRAIN	is a grain
	SLUG	is a slug
	CARAT	is a carat
Mass Rate Time Units	Select the ma	ass rate time units. Choices are:
	YEAR	
	DAY	
	HOUR	
	MIN	
	SEC	
Gas Chromatograph	If not shown,	click the [+] to display these fields.
	·	
Heat Value Type Dry BTU / Sat. Wet BTU	BTU button it dry BTU valu the Sat. Wet	oggles the Heat Value type. Click the Dr y f you want Station Manager to use the e from the gas chromatograph, or click BTU button if you want Station Manager turated (wet) BTU value from the gas ph.
Current Status Dry BTU / Sat. Wet BTU	Shows the cu	rrent BTU Type for this station.
	Select the chi	romatograph data set you want to use.
	Chroma	ntograph Data Set
	Use 1 for all	Nata Set I Assigned Runs ▼
	Use 1 for all	I Assigned Runs ▼ ream Settings
	Use 1 for all Use Run Str Use 1 for all	I Assigned Runs ▼ ream Settings Assigned Runs
	Use 1 for all Use Run Str Use 1 for all Use 2 for all	Assigned Runs ▼ I Assigned Runs Team Settings I Assigned Runs Assigned Runs
	Use 1 for all Use Run Str Use 1 for all Use 2 for all Use 3 for all	I Assigned Runs Comparison of the Compariso
	Use 1 for all Use Run Str Use 1 for all Use 2 for all Use 3 for all Use 4 for all	I Assigned Runs ream Settings Assigned Runs
	Use 1 for all Use 1 for all Use 1 for all Use 2 for all Use 3 for all Use 4 for all Use 5 for all	I Assigned Runs ream Settings Assigned Runs
	Use 1 for all Use 1 for all Use 1 for all Use 2 for all Use 3 for all Use 4 for all Use 5 for all Use 6 for all	Assigned Runs Assigned Runs Assigned Runs Assigned Runs Assigned Runs Assigned Runs Assigned Runs Assigned Runs Assigned Runs Assigned Runs Assigned Runs Assigned Runs
Chromatograph Data Set	Use 1 for all Use 1 for all Use 2 for all Use 3 for all Use 4 for all Use 5 for all Use 6 for all Use 7 for all	I Assigned Runs Ream Settings Assigned Runs
	Use 1 for all Use 1 for all Use 2 for all Use 2 for all Use 4 for all Use 5 for all Use 6 for all Use 8 for all	I Assigned Runs Ream Settings Assigned Runs
	Use 1 for all Use 2 for all Use 2 for all Use 3 for all Use 4 for all Use 5 for all Use 6 for all Use 7 for all Use 8 for all	Assigned Runs Assigned Runs Assigned Runs Assigned Runs Assigned Runs Assigned Runs Assigned Runs Assigned Runs Assigned Runs Assigned Runs Assigned Runs Assigned Runs Assigned Runs Use Run Stream Settings," a GC
	Use 1 for all Use 2 for all Use 2 for all Use 3 for all Use 4 for all Use 5 for all Use 6 for all Use 7 for all Use 8 for all	I Assigned Runs Ream Settings Assigned Runs

Compressibility Calc		vn menu to select the calculation you nager to use for compressibility.
	NX-19	go
	AGA8 Detail	
	AGA8 Gross	
Gross Method		6A8 Gross for your compressibility
SG,CO2, N2 / HV, SG, CO2	method shows in	ct the gross method. The current the Current Method field; to toggle I used to the other method, click the
	Method field, and	chosen method shows in the Current d the now unused method appears on
	the label of the b	utton.
	Choices include:	1
	SG, CO2, N2	The Station Manager application performs calculations using inputs of relative density (specific gravity or SG), and the mole fractions of nitrogen (N2) and carbon dioxide (CO2).
	HV, SG, CO2	The Station Manager application performs calculations using inputs of the heating value (HV), the relative density (specific gravity or SG), and the mole fraction of carbon dioxide (CO2).
		anager ignores the method setting for er than AGA8 Gross.
Select Calc Source Fixed-Scheduled / GC	A GC failure cou range problem a	ld include a communication failure, a nd so on.
	a GC failure. Click want Station Marfailure. Click the	les the calculation source used during ck the Fixed - Scheduled button if you nager to use fixed data during a GC GC button if you want Station in-use GC data during a GC failure.
Calculations Using	Shows the currer be used during a	nt choice for the calculation source to GC failure.
Averaging	If not shown, click	k the [+] to display these fields.
Meter Averaging Method	averaging metho	vn menu to select the API 21.1 d you want Station Manager to use.
	Flow Depender Flow Depender Flow Weighted Flow Weighted	it Formulaic Avg Linear Avg

Upon No Flow Condition Use	This button toggles whether the Station Manager application uses a flow weighted average, or a straight average during a no flow condition for meter averaging. Click the Flow Weighted button to use a flow weighted average when there is no flow. Click the Straight Average button to use a straight average when there is no flow.
Current Status	Shows the current choice for what Station Manager uses for averaging for the meter during a no flow condition.
GC Averaging Method	Use the drop-down menu to select the API 21.1 averaging method you want Station Manager to use. Flow Dependent Linear Avg Flow Dependent Formulaic Avg
	Flow Weighted Linear Avg Flow Weighted Formulaic Avg
Upon No Flow Condition Use	This button toggles whether the Station Manager application uses a flow weighted average, or a straight average during a no flow condition for GC averaging. Click the Flow Weighted button to use a flow weighted average when there is no flow. Click the Straight Average button to use a straight average when there is no flow.
Current Status	Shows the current choice for what Station Manager uses for averaging for the GC during a no flow condition.

3.2.7 Station Data Tab (Station Configuration)

The Station Data tab shows the current station flow, energy and mass rates in the units chosen on the General tab. To access the Station Data tab, right click on the station icon and choose **Configuration > Summaries** from the pop-up menus.

Station Accumulations

The current hour, contract day and contract month, and the previous hour, contract day and contract month accumulations are displayed here.

Station Mass Accumulations

The current hour, contract day and contract month, and the previous hour, contract day and contract month mass accumulations are displayed here.

Forward / Reverse

When configuring for bi-directional flow, the stations must be paired (1 and 2; 3 and 4; or 5 and 6).

The odd-numbered stations (1, 3, or 5) are the "forward" flowing stations, and the even-numbered stations (2, 4, or 6) are the "reverse" flowing stations.

When a pair of stations is configured for bi-directional flow, the Station Summary screen for the odd-numbered (forward) stations will indicate flow and energy rates in the "forward" column when flow is in the "forward" direction, and will indicate flow and energy rates in the "reverse" column when flow is in the "reverse" direction.

However, the Station Summary screen for the even-numbered (reverse) stations, will indicate flow and energy rates in the "forward" column when flow for the combined station is in the "reverse" direction, and will always indicate no flow or energy rate in the "reverse" column.

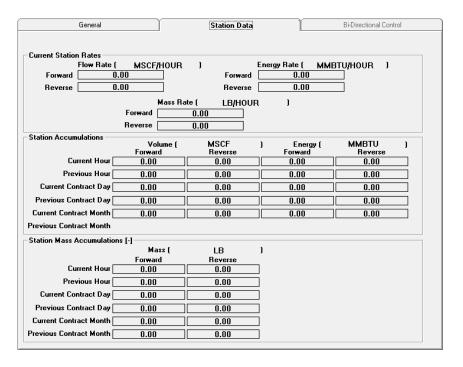


Figure 3-14. Station Data tab

3.2.8 Bi-Directional Control Tab (Station Configuration)

Note: The Bi-directional Control tab is only available on even-numbered (2, 4, or 6) stations, and only when the selected direction is "Reverse." You set a station to the reverse direction using the "Station Direction" button on the Station Configuration tab; see *Section 3.2.6* for details. To access the Bi-Directional Control tab, right-click on the station icon, then choose **Configuration > Bi-Directional** from the pop-up menus.

The Station Manager application provides bi-directional measurement; that is, one physical run may measure flow in both the "forward" and "reverse" directions. For measurement purposes, flow in the "forward" direction is accounted for in one run, and flow in the "reverse" direction is accounted for in a separate run.

In the Station Manager controller, this is handled by assigning oddnumbered runs (Run 1, 3, 5, or 7) to odd-numbered stations (Station 1, 3, or 5), which will be designated as the "forward" station, and the evennumbered runs (Run 2, 4, 6, or 8) to the even-numbered stations (Station 2, 4, or 6), which will be designated as the "reverse" station.

The Station Manager controller can accommodate bi-directional measurement where the gas physically travels through the meter run in both directions, or where the gas always travels through the run in one direction.

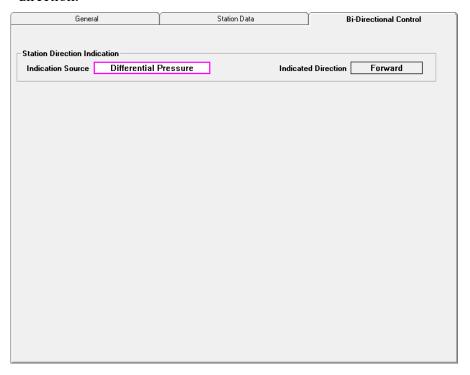


Figure 3-15. Bi-Directional Control tab

Field	Description
Station Direction Indication	
Indication Source	The "Indication Source" selection controls the "Indication Direction." Your choice determines what variable causes a direction change.
	Your choice of "Indication Source" also determines the appearance of the Bi-Directional Control tab.
	See the sub-sections below which describe the tab fields for the possible indication sources.
Indicated Direction	Shows the currently selected direction ("Forward" or "Reverse") as determined by the Indication Source. Note: In earlier versions of Station Manager, this field was called Detected Direction .

Indication Source is "Differential Pressure"

When "Differential Pressure" is chosen as the "Indication Source", the following information is available on the screen: The "Indicated Direction" is determined by the value of the differential pressure.

If the differential pressure is positive (greater than or equal to 0.0) the indicated direction will be "Forward".

If the differential pressure is negative (less than 0.0) the indicated direction will be "Reverse".

If there are multiple runs configured, and there is flow through more than one run, direction is determined by a voting scheme. Whatever the majority of the runs indicates determines the station direction. Tie results in unchanged results from previous state.

Indication Source is "Frequency Input"

When "Frequency Input" is chosen as the "Indication Source", the following information is available on the screen: The "Indicated Direction" is determined by the value of the frequency.

If the frequency on a forward run is above the cutoff, the Indicated Direction is "Forward."

If the frequency on a reverse run is above the cutoff, the Indicated Direction is "Reverse."

If there are multiple runs configured, and there is flow through more than one run, direction is determined by a voting scheme. Whatever the majority of the runs indicates determines the station direction. A tie results in unchanged results from the previous state.

Indication Source is "Single Discrete Input"

When "Single Discrete Input" is chosen as the "Indication Source", the following information is available on the screen: The "Indicated Direction" is determined by the state of the digital input assigned to STx Direction Indicator, (where x = 2, 4, or 6).

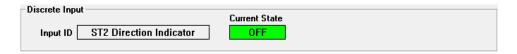


Figure 3-16. Fields on Bi-Directional Control Tab for "Single Discrete Input" Choice

Field	Description
Discrete Input	
Input ID	The input ID will be "ST2 Direction Indicator" for Station 2, "ST4 Direction Indicator" for Station 4 or "ST6 Direction Indicator" for Station 6.
Current State	The "Current State" field shows the state of the digital input.
	If the state of digital input is OFF (FALSE), the indicated direction will be "Forward".
	If the state of digital input is ON (TRUE), the indicated direction will be "Reverse".

Sense"

Indication Source is When "Limit Switch/DI Sense" is chosen as the "Indication Source", "Limit Switch / DI the following information is available on the screen: The "Indicated Direction" is determined by the state of multiple digital inputs.

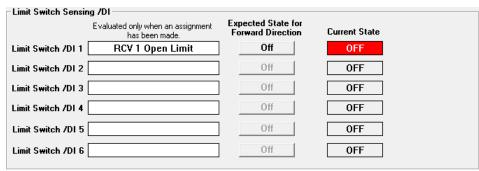


Figure 3-17. Fields on Bi-Directional Control Tab for "Limit Switch / DI Sense" Choice

Field	Description
Limit Switch Sensing / DI	
Limit Switch / DI x	Up to 6 digital inputs may be chosen to be evaluated. These digital inputs may be valve limit switches, or other digital inputs.

Expected State for Forward Direction	In addition to assigning the digital inputs to be evaluated, the state of the digital input (OFF or ON) that indicates "Forward Direction" must be selected.
Current State	The "Current State" field shows the state of each of the digital inputs.

In *Figure 3-18*, there are 6 valve limit switches that determine the direction of flow through the station. When block valves 4, 5, and 6 are open, and the block valves 1, 2, and 3 are closed, there is forward flow through the station.

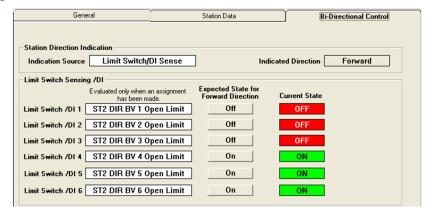


Figure 3-18. Limit Switch / Sensing DI

When block valves 4, 5, and 6 are closed, and the block valves 1, 2, and 3 are open, there is reverse flow through the station.

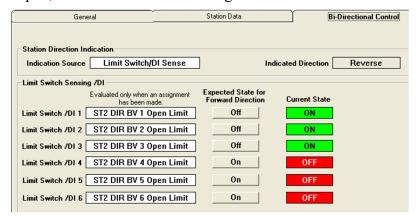


Figure 3-19. Limit Switch Sensing / DI – Reverse Flow

If there is a tie between the various inputs, no change of indicated direction occurs.

Indication Source is "Block Valve Dual LS Sense"

When "Block Valve Dual LS (Limit Switch) Sense" is chosen as the "Indication Source", the following information is available on the screen: The "Indicated Direction" is determined by the state of a pair of limit switches from one or more valves.

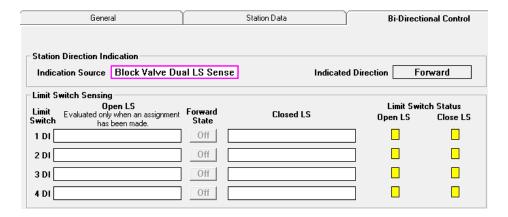
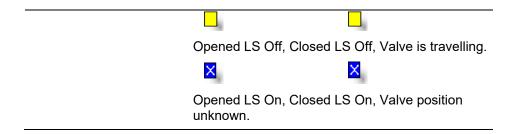


Figure 3-20. Block Valve Dual LS Sense

Field	Description	
Limit Switch Sensing I	Four pairs of limit switce evaluated.	thes may be chosen to be
Limit Switch / DI x	Up to 4 pairs of digital inputs may be chosen to be evaluated. These digital inputs may be valve limit switches, or other digital inputs.	
Open LS	Select the digital input limit switch for this valv	representing the opened re.
Closed LS	Select the digital input limit switch for this valv	representing the closed re.
Forward State	In addition to assigning the limit switches to be evaluated, the state of the digital input (OFF or ON) that indicates "Forward Direction" must be selected for the Open Limit Switch. The opposite state for the Closed Limit Switch is assumed.	
Limit Switch Status	imit Switch Status The "Current State" field shows the of the limit switches.	
	The "Open LS" and "Close LS" fields show the state of each of the limit switches.	
	Open LS	Close LS
	×	
	Opened LS On, Closed	d LS Off, Valve is Opened.
		×
	Opened LS Off, Closed	d LS On, Valve is Closed.



In *Figure 3-21*, there are two valves used to determine the direction of flow through the station. When block valve 1 for Station 2 is open, and block valve 2 for Station 2 is closed, there is forward flow through the station.

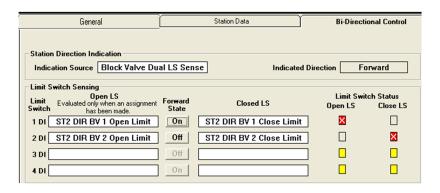


Figure 3-21. Block Valve Dual LS Sense

When the block valve 1 for Station 2 is closed, and block valve 2 for Station 2 is open, there is reverse flow through the station.

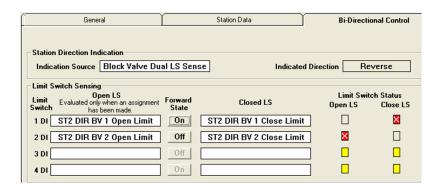


Figure 3-22. Block Valve Dual LS Sense

If there is a tie between the various inputs, then no change of indicated direction occurs.

Indication Source is "Software Switch"

When "Software Switch" is chosen as the "Indication Source", the following information is available on the screen: The "Indicated Direction" is determined by the state of a software switch. This is a variable (BI.STx_DIR, where x = 1 or 5) that may be set through either the local or SCADA interface. This may be changed via the SCADA interface when using either the BSAP protocol or the Enron MODBUS protocol.

If the state of the software switch is "Forward" (OFF), then flow through the station is in the forward direction.

If the state of the software switch is "Reverse" (ON), then flow through the station is in the reverse direction.

Indication Source is "Run Flow Rates"

When "Run Flow Rate" is chosen as the "Indication Source", the following information is available on the screen: The "Indicated Direction" is determined by the value of the run flow rate.

If the run flow rate on a forward run is above the cutoff, the Indicated Direction is "Forward."

If the run flow rate on a reverse run is above the cutoff, the Indicated Direction is "Reverse."

If there are multiple runs configured, and there is flow through more than one run, direction is determined by a voting scheme. Whatever the majority of the runs indicates determines the station direction. A tie results in unchanged results from the previous state.

Indication Source is "Station Flow Rates"

When "Station Flow Rates" is chosen as the "Indication Source" the "Indicated Direction" is determined by the value of the station flow rates.

If the forward station flow rate is greater than the reverse station flow rate, the indicated direction is "forward."

If the reverse station flow rate is greater than the forward station flow rate, the indicated direction is "reverse."

Indication Source is "Programmed Control"

The Station Manager controller can perform the control necessary to reconfigure a station for "forward" or "reverse" flow. This is done by allowing the user to configure the valves to manipulate, and the sequence by which to operate the valves.

To configure the Station Manager controller to perform this control, select "Programmed Control" as the "Indication Source". Once you click the **Click to Expand>>** link, the following will be available from the screen:

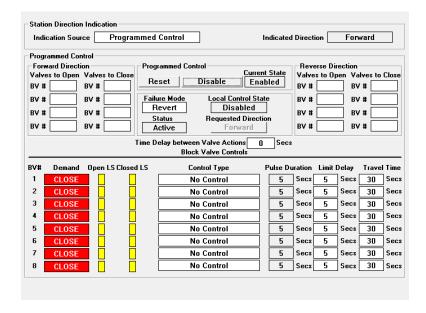


Figure 3-23. Bi-Directional Control Tab – Programmed Control Section

It is possible to select up to 8 valves to be operated, in a user specified sequence, to change the flow direction from Reverse-to-Forward, and select a different sequence to change the flow direction from Forward-to Reverse.

Field	Description
Forward Direction / Reverse Direction I	To configure the sequence of operations from Reverse-to-Forward, select the appropriate valves in the "Forward Direction" table.
	To configure the sequence of operations from Forward-to- Reverse, select the appropriate valves in the "Reverse Direction" table.
	Note : The two sequences can be independent of each other.
Valves to Open / Valves to Close	Up to 4 valves may be selected to open when changing direction. These valves may be chosen from any of the 8 block valves available for the station.
	When changing direction, all valves to close will be closed, and then the valves to open will be opened.
Failure Mode	In the event of a failure, that is, a valve is not indicated in the demanded position within the travel time of the valve, there are three modes of action that can be configured:
	Revert
	The "Revert" failure mode will cause the controller to attempt to return to the previous state in the event of a failure.

When commanding the station from the forward-toreverse direction, if a failure occurs, the valves will be commanded back to the "Forward" positions.

When commanding the station from the reverse-toforward direction, if a failure occurs, the valves will be commanded back to the "Reverse" positions.

ESD

The "ESD" or emergency shutdown failure mode will cause the station to be shut-in in the event of a failure.

Pause

The "Pause" failure mode will cause the sequence to halt, and allow the failed valve indication to be rectified, and will then continue.

Status

The following Status will be indicated:

Active

While a "Requested Direction" change is being processed, either until the direction change is successful or a failure occurs, the "Status" indication will be "Active".

Disabled

When the "Programmed Control" is Disabled, the Status will be "Disabled"

ESD

If a station "ESD" has occurred, the "Status" indication will be ESD.

Failing

If a failure is occuring the "Status" indication will be "Failing"

Fail-ESD

If a failure mode is "ESD" and a failure has occurred, the status indication will be "Fail ESD."

Fail-PSD

If a failure mode is "Pause" and a failure has occurred, the status indication will be "Fail PSD."

Fail-Reverted

If a failure mode is "Revert" and a failure has occurred, and the Station Manager has completed going back to the previous state, the status indication will be "Fail-Reverted."

Idle

When the "Indicated Direction" matches the "Requested Direction" the "Status" indication will be "Idle".

Reverting

	If a failure mode is "Revert" and a failure has occurred, the status will indicate "Reverting" while the Station Manager commands the valves back to the previous position.
Local Control State	The "Local Control State" is controlled by the settings on the "Local/Remote Settings" screen.
	When the "Local Control State" is "Enabled", local control is enabled, and changing the "Requested Direction" will initiate the control action.
	When the "Local Control State" is "Disabled", local control is disabled, changing the "Requested Direction" locally will not initiate the control action. The control action may only be initiated via SCADA, using the BC.STn_RDIR_REQ signal, where n = station number.
Requested Direction Forward / Reverse	When the local control state is enabled, toggling this button between "Forward" and "Reverse" will initiate the control action to change the direction of the station to match the direction indicated on the button.
Reset	If a failure has occurred, no further action will occur until the you click the Reset button. The "Enabled" state will be set back to the "Disabled" state when the reset operation is complete.
Programmed Control Enable / Disable	Enable or disable programmed control by toggling this button. Click Enable to enable programmed control; click Disable to disable programmed control.
Current State	Shows Enabled when programmed control is enabled; shows Disabled when programmed control is disabled.
Time Delay Between Valve Actions	This will be the amount of time, in seconds, between valve actions. When set to 0, the next valve in the sequence will operate immediately after the current valve command is done being issued. If it is necessary to wait until one valve is done operating until operating the next valve, the "Time Delay between Valve Actions" setting should be made greater than the travel time of the valve.
Block Valve Controls	
BV#	Up to 8 block valves can be configured for each station. The BV# in this field corresponds with the BV# configured in the "Programmed Control" configuration section of this screen.
Control Type	Each block valve may be configured for one of three control types. The settings for each block valve may be made independently of the other block valves. The "Control Type" selection may be one of the following:
	Single Maintained Output

	This option should be chosen when a single output is energized to change the position of the valve.	
	Dual Maintained Outputs	
	This option should be chosen when there are two outputs, one to open the valve, and the other to close the valve, and these outputs should be maintained, even after the appropriate limit switch indicates that the valve is in the demanded position.	
	Dual Pulsed Outputs This option should be chosen when there are two outputs, one to open the valve, and the other to close the valve, and these outputs should pulsed until the appropriate limit switch indicates that the valve is in the demanded position. The "Limit Delay" setting can be used to maintain a pulse for some time after the limit switch is made.	
Pulse Duration	The "Pulse Duration" is the amount of time to pulse the output. This setting only applies to the "Control Type" is "Dual Pulsed Outputs", and may only be changed when this control type is selected.	
Limit Delay	The "Limit Delay" is the amount of time, in seconds, that the output pulse will be maintained after an opened or closed limit is indicated. This only applies for the "Control Type" of "Dual Pulsed Outputs".	
Travel Time	The "Travel Time" field is the amount of time, in seconds, it takes the valve to fully travel from the open-to-close or close-to-open position. This entry may be changed from this screen.	
Demand	The "Demand" field displays the demanded position of the Block Valve.	
Open / Close LS	The "Open LS" and "Close LS" fields show the state of each of the limit switches.	
	Open LS Close LS	
	×	
	Opened LS On, Closed LS Off, Valve is Opened.	
	■	
	Opened LS Off, Closed LS On, Valve is Closed.	
	Opened LS Off, Closed LS Off, Valve is travelling.	
	X	
	Opened LS On, Closed LS On, Valve position unknown.	

Station Data **Bi-Directional Control** General Station Direction Indication Indication Source Programmed Control Indicated Direction Forward Failure Mode Local Control State Forward Direction Reverse Direction Enabled Revert Valves to Open Valves to Close Valves to Open Valves to Close Status Requested Direction BV # BV 2 BV # BV 2 BV # BV 1 Disabled Forward BV # BV # Disable Enable BV # BV # BV # Time Delay betwee n Valve Actions BV # 35 **Block Valve Controls** BV# Demand Open LS Closed LS Control Type Pulse Duration Limit Delay Travel Time Open 5 Secs Single Maintained Output 5 Secs 30 Secs 2 Secs Secs Secs Close Single Maintained Output 30 Close No Control 5 Secs 5 Secs 30 Secs Close No Control 5 Secs 5 Secs Secs 5 Close No Control 5 Secs 5 Secs 30 Secs Close No Control Secs Secs 30 Secs 5 5 Close No Control Secs Secs 30 Close No Control 5 5 Secs 30

In *Figure 3-24*, there are two valves to be controlled by the Station Manager controller to change flow direction through the station.

Figure 3-24. Programmed Control – Bi-Directional Control

To direct flow through the station in the "Forward" direction, Block Valve (BV) #1 must be opened, and BV# 2 must be closed.

To change the direction from forward to reverse, the "Programmed Control" must be enabled, and the "Requested Direction" must be set to "Reverse".

The first step is to enable the programmed control:

Immediately upon enabling programmed control, the "Status" indication will go to "Active" for the time delay between valve operations multiplied by the number of valves configured to be operated. In this example, the Status will remain in the "Active" state for 70 seconds.

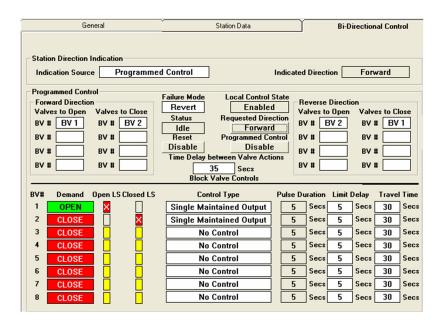


Figure 3-25. Programmed Control – Bi-Directional Control

After this, the "Status" will indicate "Idle".

Change the "Requested Direction" by toggling the button from "Forward" to "Reverse".

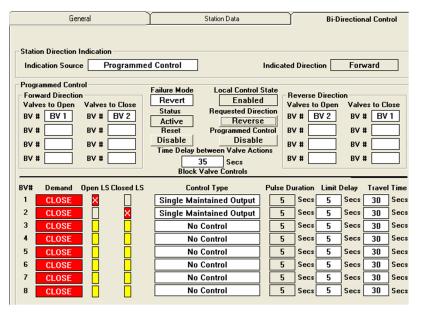


Figure 3-26. Programmed Control – Bi-Directional Control

The "Demand" indication for BV#1 changes to "Close", since the first valve operation to change flow through the station to "Reverse" is to close BV#1. Block Valve # 1 should start closing.

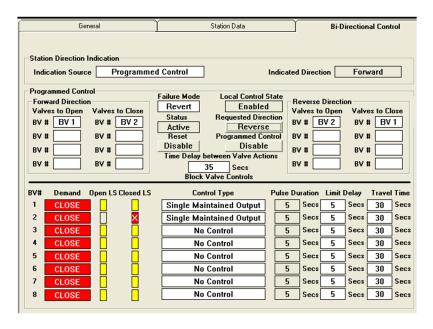


Figure 3-27. Programmed Control – Bi-Directional Control

The indication that the valve is closing should that be both limit switch indicators change to yellow. This indicates both the opened and closed limit switches are Off, and that the valve is traveling.

Block valve 1 should fully close within the travel time entry for the valve,

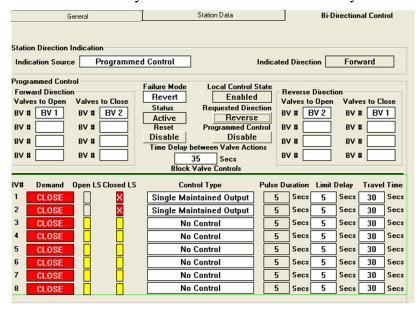


Figure 3-28. Programmed Control – Bi-Directional Control

After BV#1 has fully closed and until the time delay between valve actions has expired, both BV#1 and BV#2 demand should be closed, and the limit switches for both valves should indicate both valves are closed.

After the time delay between valve actions has expired, BV# 2 Demand should change to open.

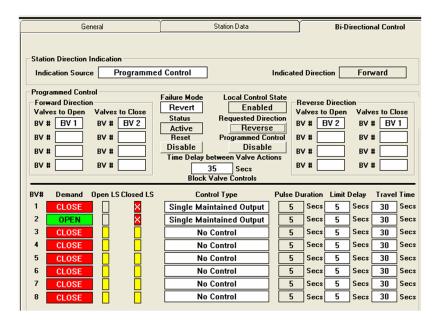


Figure 3-29. Programmed Control – Bi-Directional Control

This is because all of the valves that need to be closed are closed, and BV# 2 is the first valve that is required to be opened.

Block Valve # 2 should start to open.

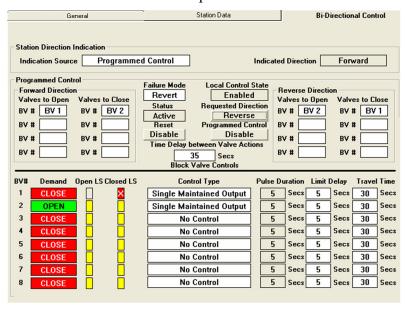


Figure 3-30. Programmed Control – Bi-Directional Control

The indication that the valve is opening should be that both limit switch indicators change to yellow. This indicates both the opened and closed limit switches are Off, and that the valve is traveling.

Block valve 2 should fully open within the travel time entry for the valve.

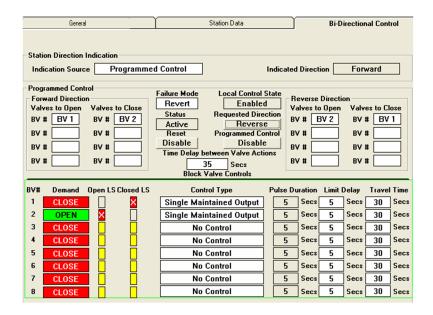


Figure 3-31. Programmed Control – Bi-Directional Control

After BV#2 has fully opened and until the time delay between valve actions has expired, the "Indicated Direction" will indicate "Forward".

After the time delay between valve actions has expired, the "Indicated Direction" should indicate "Reverse" and the "Status" should indicate Idle.

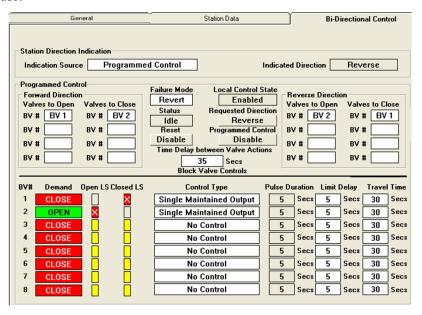


Figure 3-32. Programmed Control – Bi-Directional Control

It is now possible to change the direction from "Reverse" to "Forward". This would be done by toggling the "Requested Direction" button to "Forward", and observing similar action as described above, but for the valve sequence required to direct flow in the forward direction.

In this example, block valve #2 would be demanded to close, then 35 seconds after that, if the valve closes successfully, block valve #1 would be demanded to open. If block valve #1 successfully closes and 35 seconds after block valve #1 is demanded closed, the "Indicated Direction" will indicate "Forward" and the "Status" will indicate "Idle". While the valves were being operated, the "Status" would indicate "Active".

Examples for Configuring Bi-Directional Control

The controller may use separate measurement inputs (differential pressure, frequency, static pressure, and flowing temperature) for each direction (isolated transmitters), or it may use the same measurement inputs for both directions (non-isolated transmitters). It is possible to have a combination of isolated and non-isolated transmitters.

What follows are some examples of how to configure bi-directional measurement for some typical cases:

Example 1– Bi-Directional Control with One Orifice Measurement Run, Flow Reverses Direction, Non-Isolated **Transmitters**

To configure bi-directional measurement for a single physical orifice meter run, where gas flows through the run in both directions, and there are a single set of measurement inputs, follow these steps:

- Run 1 will be configured as an orifice measurement run, assigned to Station 1.
- Run 2 will be configured as an orifice measurement run, assigned to Station 2.
- Station 2 will be configured as a "reverse" measurement station.

the I/O

Configuring Configure the I/O for the odd-numbered ("forward") run only. In this example, the Run 1 differential pressure, static pressure, and flow temperature inputs are assigned to analog input points 1, 2, and 3 respectively. No assignments are made for the Run 2 measurement inputs.

Input					
PNT	PV	Zero	Span	Units	Assignment
1	180.7	-150.0	300.0	In/H2O	MID-001 Diff. Pressure
2	436.9	0.0	1000.0	PSI	MID-001 Static Pressure
3	68.8	0.0	140.0	DEG_F	MID-001 Temperature
4	16.7	0.0	100.0		

Figure 3-33. Configuring I/O for Bi-Directional Control (Example 1)

the Stations

Configuring Both Station 1 (the "forward" measurement station) and Station 2 (the "reverse" measurement station) must be configured.

> Configure Station 1 by giving it a unique station name, and assigning the other configuration parameters as required.

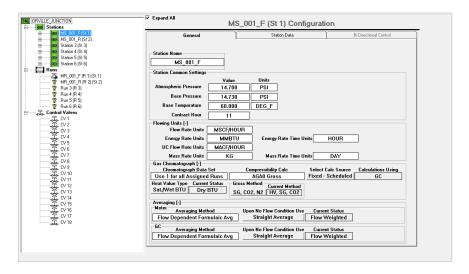


Figure 3-34. Configuring Station 1 for Bi-Directional Control (Example 1)

Configure Station 2 by giving it a unique station name and setting the "Station Direction" to "Reverse". Assign the other configuration items as required.

In most cases, these configuration settings should be identical to the configuration settings for Station 1. However, it is possible to use a configuration in Station 1 ("forward") that is different than the configuration in Station 2 ("reverse").

Notice that after changing the "Station Direction" to "Reverse" that the Bi-Directional Control tab has become available for configuration.

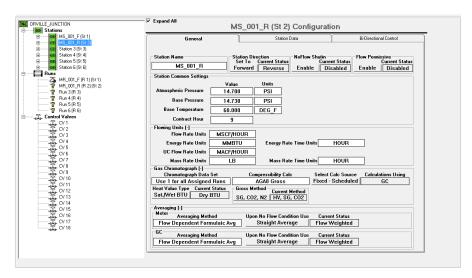


Figure 3-35. Configuring Station 2 for Bi-Directional Control (Example 1)

Issued: February 2023

Configuring the Measurement Runs

Configuring Both Run 1 (the "forward" measurement run) and Run 2 (the "reverse" measurement run) must be configured.

On the General tab, configure Run 1 by giving it a unique "Run ID", selecting a "Measurement Type" of "Orifice", and making the "Station Assignment" to Station 1 (MS_001_F in this example). Leave the "Static Pressure" and "Flowing Temperature Source" selected as "Hardware AI", using the "Default AI" as the "AI#". Change other settings as required.

In this example, because there is only a single measurement run, no run staging (also referred to as run switching or tube switching) is possible, so the "Run Staging Rank" may be left at 0.

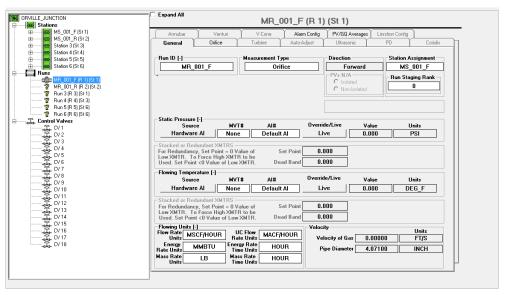


Figure 3-36. Configuring Run 1 for Bi-Directional Control (Example 1)

On the "Orifice" tab for Run 1, leave the "Differential Pressure Source" selected as "Hardware AI", using the "Default AI" as the "AI#". Change other settings as required.

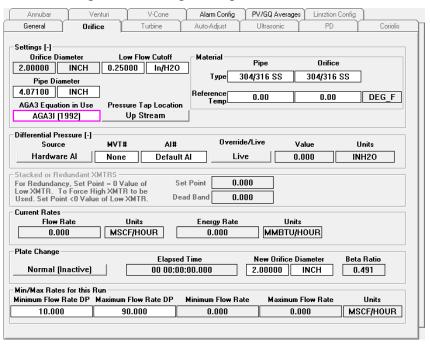


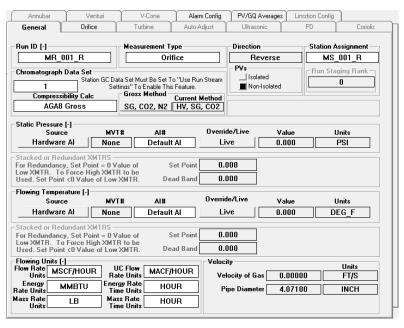
Figure 3-37. Configuring Run 1 Orifice tab for Bi-Directional Control (Example 1)

On the General tab, configure Run 2 by giving it a unique "Run ID", selecting a "Measurement Type" of "Orifice", and making the "Station Assignment" to Station 2 (MS_001_R in this example). Leave the "Static Pressure" and "Flowing Temperature Source" selected as "Hardware AI", using the "Default AI" as the "AI#". Change other settings as required.

Because Run 2 is assigned to Station 2 (which is configured as a "reverse" station), the "Direction" field changes to "Reverse", and the items in the "PVs" box become available for configuration. In this example, since the measurement in both directions is being performed with a single set of measurement inputs, the "Non-Isolated" radio button should be selected.

When the "Non-Isolated" radio button is selected, the live input values for static pressure and flowing temperature applied to Run 1 are also applied to Run 2.

Because this run is assigned to a "reverse" measurement station, the option for changing the "Run Staging Rank" is disabled. It is important that the run staging rank for the reverse runs be left at 0.



Issued: February 2023

Figure 3-38. Configuring General tab (for Run 2) in Bi-Directional Control (Example 1)

On the "Orifice" tab for Run 2, leave the "Differential Pressure Source" selected as "Hardware AI", using the "Default AI" as the "AI#". Change all other settings to the same values as set on Run 1, except for "Pressure Tap Location". Set the pressure tap location on Run 2 to be the opposite of the pressure tap location on Run 1. For instance, if the pressure tap location on Run 1 is "Upstream," set the pressure tap location on Run 2 to "Downstream."

Because the "Non-Isolated" PVs radio button was selected on the "General" tab, the live input value for differential pressure from Run 1 is also routed to Run 2. However, the differential pressure value is only applied to Run 2 for measurement when the bi-directional flow indication determines gas is flowing through the physical station in the reverse direction, otherwise, the differential pressure is forced to 0.0.

When the flow direction is indicated as "reverse", the differential pressure will be indicated on Run 2, and the differential pressure for Run 1 will be forced to 0.0.

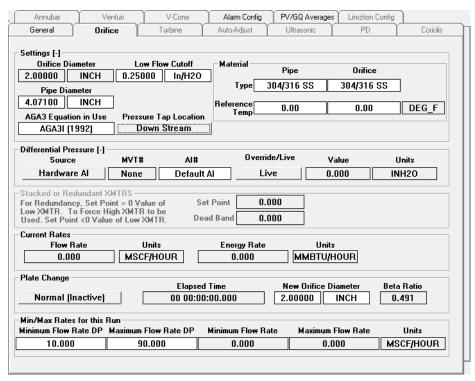


Figure 3-39. Configuring Run 2 Orifice tab for Bi-Directional Control (Example 1)

Example 2- Bi-Directional Control for One Measurement Run, Flow in One Direction, Isolated Transmitters

To configure bi-directional measurement for a single physical orifice meter run, where gas flows through the run in one direction, and there are a single set of measurement inputs, follow these steps:

- Run 1 will be configured as an orifice measurement run, assigned to Station 1.
- Run 2 will be configured as an orifice measurement run, assigned to Station 2.
- Station 2 will be configured as a "reverse" measurement station.

Configuring the I/O

Configure the I/O for the odd-numbered ("forward") run only.

In this example, the Run 1 differential pressure, static pressure, and flow temperature inputs are assigned to shared inputs for DP, SP, and FTemp respectively. No assignments are made for the Run 2 measurement inputs.

Input:	s ———	Zero	Span	Units	Assignment
1	-862.5	0.0	300.0	In/H2O	Shared DP 1
2	-2874.9	0.0	1000.0	PSI	Shared SP 1
3	-402.5	0.0	140.0	DEG_F	Shared FTemp 1
4	-287.5	0.0	100.0		

Figure 3-40. Configuring I/O for Bi-Directional Control (Example 2)

the Stations

Configuring Both Station 1 (the "forward" measurement station) and Station 2 (the "reverse" measurement station) must be configured.

> Configure Station 1 by giving it a unique station name, and assigning the other configuration parameters as required.

> > Issued: February 2023

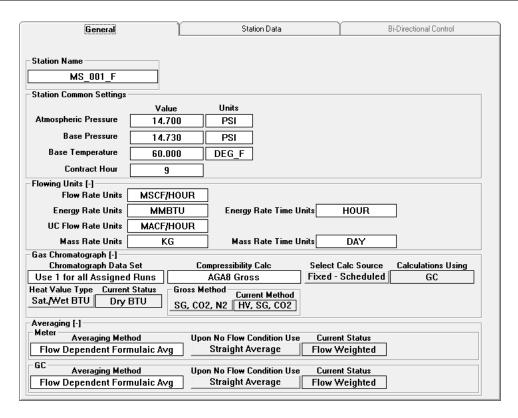


Figure 3-41. Configuring Station 1 for Bi-Directional Control (Example 2)

Configure Station 2 by giving it a unique station name and setting the "Station Direction" to "Reverse". Assign the other configuration items as required.

In most cases, these configuration settings should be identical to the configuration settings for Station 1. However, it is possible to use a configuration in Station 1 ("forward") that is different than the configuration in Station 2 ("reverse").

Notice that after changing the "Station Direction" to "Reverse" that the Bi-Directional Control tab became available for configuration.

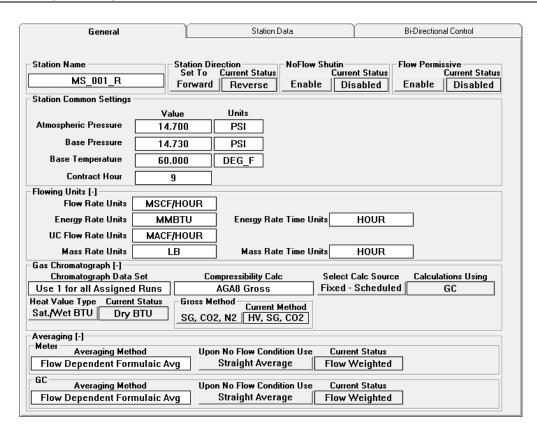


Figure 3-42. Configuring Station 2 for Bi-Directional Control (Example 2)

Configuring the Measurement Runs

Both Run 1 (the "forward" measurement run) and Run 2 (the "reverse" measurement run) must be configured.

On the General tab, configure Run 1 by giving it a unique "Run ID", selecting a "Measurement Type" of "Orifice", and making the "Station Assignment" to Station 1 (MS_001_F in this example). Leave the "Static Pressure" and "Flowing Temperature Source" selected as "Hardware AI", using the "Shared SP 1" and "Shared FT 1" as the "AI#". Change other settings as required.

In this example, because there is only a single measurement run, no run staging (also referred to as run switching or tube switching) is possible, so the "Run Staging Rank" may be left at 0.

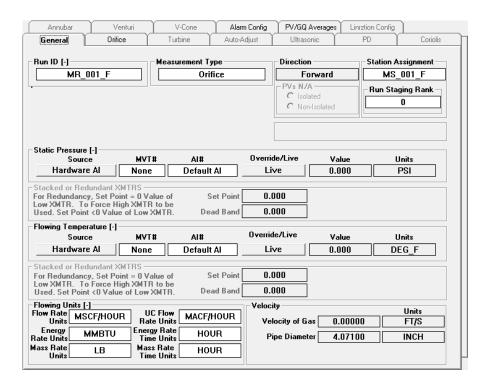


Figure 3-43. Configuring Run 1 for Bi-Directional Control (Example 2)

On the "Orifice" tab for Run 1, leave the "Differential Pressure Source" selected as "Hardware AI", using the "Shared DP 1" as the "AI#". Change other settings as required.

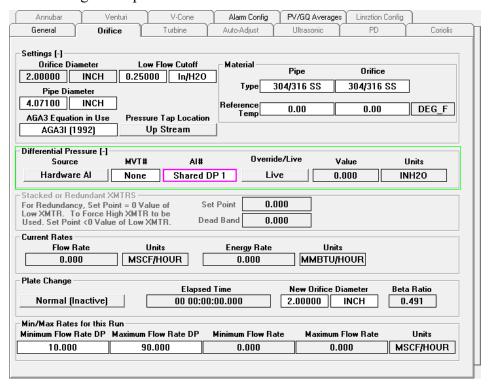


Figure 3-44. Configuring Run 1 Orifice tab for Bi-Directional Control (Example 2)

On the General tab, configure Run 2 by giving it a unique "Run ID", selecting a "Measurement Type" of "Orifice", and making the "Station Assignment" to Station 2 (MS_001_R in this example). Leave the "Static Pressure" and "Flowing Temperature Source" selected as "Hardware AI", using the "Shared SP 1" and "Shared FT 1" as the "AI#". Change other settings as required.

Because Run 2 is assigned to Station 2 (which is configured as a "reverse" station), the "Direction" field changes to "Reverse", and the items in the "PVs" box become available for configuration. In this example, since the measurement in both directions is being performed with a unique set of measurement inputs, the "Isolated" radio button should be selected.

Because this run is assigned to a "reverse" measurement station, the option for changing the "Run Staging Rank" is disabled. It is important that the run staging rank for the reverse runs be left at 0.

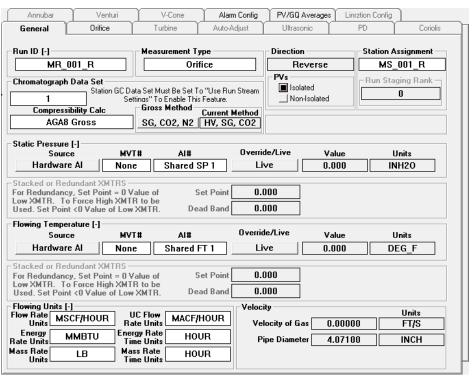


Figure 3-45. Configuring General tab (for Run 2) in Bi-Directional Control (Example 2)

On the "Orifice" tab for Run 2, leave the "Differential Pressure Source" selected as "Hardware AI", using the "Shared DP 1" as the "AI#". Change all other settings to the same values as set on Run 1, including "Pressure Tap Location."

Because the "Isolated" PVs radio button was selected on the "General" tab, the live input values for differential pressure for Run 1 and Run 2 come from independent transmitters.

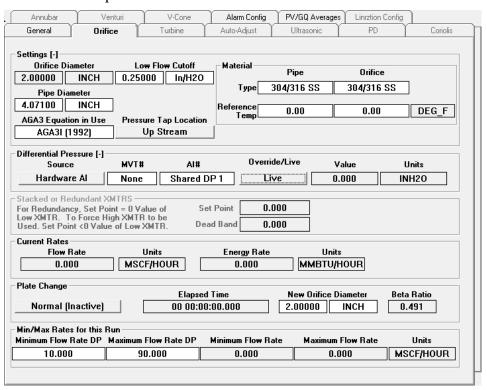


Figure 3-46. Configuring Run 2 Orifice tab for Bi-Directional Control (Example 2)

Example 3— Bi-Directional Control For One Measurement Run, Flow Reverses Direction, Isolated Transmitters

To configure bi-directional measurement for a single physical orifice meter run, where gas flows through the run in both directions, and each run has its own set of measurement inputs, follow these steps:

- Run 1 will be configured as an orifice measurement run, assigned to Station 1.
- Run 2 will be configured as an orifice measurement run, assigned to Station 2.
- Station 2 will be configured as a "reverse" measurement station.

the I/O

Configuring Configure the I/O for both the odd-numbered ("forward") run and the even-numbered ("reverse") run.

> In this example, the Run 1 differential pressure, static pressure, and flow temperature inputs are assigned to analog input points 1, 2, and 3 respectively on one I/O card.

Input PNT	s PV	Zero	Span	Units	Assignment
1	180.7	0.0	300.0	In/H2O	Run 1 Diff. Pressure
2	436.7	0.0	1000.0	PSI	Run 1 Static Pressure
3	68.8	0.0	140.0	DEG_F	Run 1 Temperature
4	16.7	0.0	100.0		

Figure 3-47. Configuring Run 1 I/O for Bi-Directional Control (Example 3)

The Run 2 differential pressure, static pressure, and flow temperature inputs are assigned to analog input points 1, 2, and 3 respectively on a separate I/O card.

Because there are separate transmitters being used for each direction, the Zeroes, Spans and even Units can vary between the "forward" and "reverse" runs.

(Note – If this example were using 8 point analog input cards, the measurement inputs for both runs could have been assigned to a single I/O card, using 6 of the 8 inputs).

Inputs PNT	PV	Zero	Span	Units	Assignment
1	90.3	0.0	150.0	In/H2O	Run 2 Diff. Pressure
2	218.4	0.0	500.0	PSI	Run 2 Static Pressure
3	98.2	0.0	200.0	DEG_F	Run 2 Temperature

Issued: February 2023

Figure 3-48. Configuring Run 2 I/O for Bi-Directional Control (Example 3)

Configuring the Stations

Both Station 1 (the "forward" measurement station) and Station 2 (the "reverse" measurement station) must be configured.

Configure Station 1 by giving it a unique station name, and assigning the other configuration parameters as required.

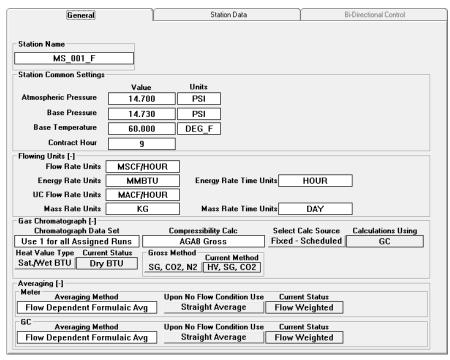


Figure 3-49. Configuring Station 1 for Bi-Directional Control (Example 3)

Configure Station 2 by giving it a unique station name and setting the "Station Direction" to "Reverse". Assign the other configuration items as required.

In most cases, these configuration settings should be identical to the configuration settings for Station 1. However, it is possible to use a configuration in Station 1 ("forward") that is different than the configuration in Station 2 ("reverse").

Notice that after changing the "Station Direction" to "Reverse" that the Bi-Directional Control tab became available for configuration. Later in this section we will need to configure the "Indication Source".

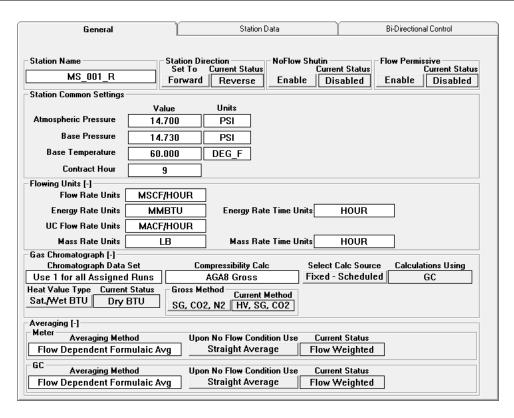


Figure 3-50. Configuring Station 2 for Bi-Directional Control (Example 3)

Configuring the Measurement Runs

Both Run 1 (the "forward" measurement run) and Run 2 (the "reverse" measurement run) must be configured.

On the General tab, configure Run 1 by giving it a unique "Run ID", selecting a "Measurement Type" of "Orifice", and making the "Station Assignment" to Station 1 (MS_001_F in this example). Leave the "Static Pressure" and "Flowing Temperature Source" selected as "Hardware AI", using the "Default AI" as the "AI#". Change other settings as required.

In this example, because there is only a single measurement run, no run staging (also referred to as run switching or tube switching) is possible, so the "Run Staging Rank" may be left at 0.

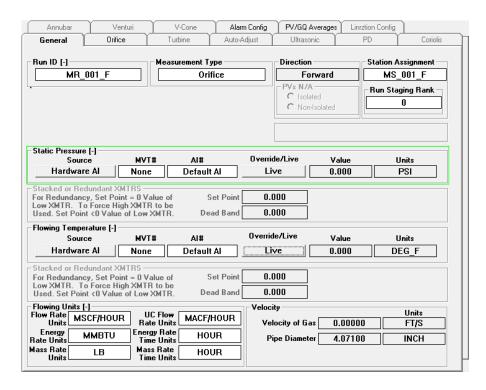


Figure 3-51. Configuring Run 1 for Bi-Directional Control (Example 3)

On the "Orifice" tab for Run 1, leave the "Differential Pressure Source" selected as "Hardware AI", using the "Default AI" as the "AI#". Change other settings as required.

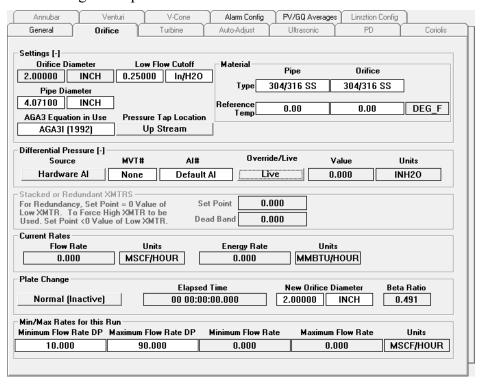


Figure 3-52. Configuring Run 1 Orifice tab for Bi-Directional Control (Example 3)

On the General tab, configure Run 2 by giving it a unique "Run ID", selecting a "Measurement Type" of "Orifice", and making the "Station Assignment" to Station 2 (MS_001_R in this example). Leave the "Static Pressure" and "Flowing Temperature Source" selected as "Hardware AI", using the "Default AI" as the "AI#". Change other settings as required.

Because Run 2 is assigned to Station 2 (which is configured as a "reverse" station), the "Direction" field changes to "Reverse", and the items in the "PVs" box become available for configuration. In this example, since the measurement in each direction is being performed with a different set of measurement inputs, the "Isolated" radio button should be selected.

When the "Isolated" radio button is selected, the live input values for static pressure and flowing temperature for Run 2 come from the physical I/O defined for Run 2 in the I/O configuration section.

Because this run is assigned to a "reverse" measurement station, the option for changing the "Run Staging Rank" is disabled. It is important that the run staging rank for the reverse runs be left at 0.

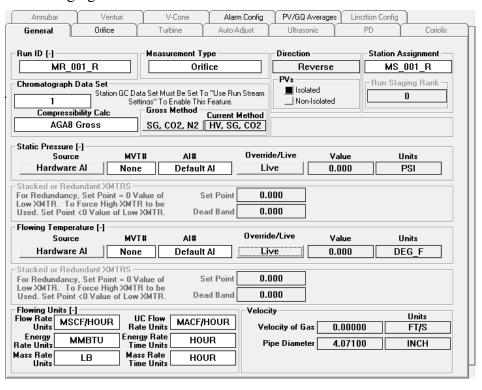


Figure 3-53. Configuring General tab (for Run 2) in Bi-Directional Control (Example 3)

On the "Orifice" tab for Run 2, leave the "Differential Pressure Source" selected as "Hardware AI", using the "Default AI" as the "AI#". Change all other settings to the same values as set on Run 1, including "Pressure Tap Location".

Because the "Isolated" PVs radio button was selected on the "General" tab, the live input value for differential pressure for Run 2 comes from the physical I/O defined for Run 2 in the I/O configuration section. However, the differential pressure value is only applied to Run 2 for measurement when the bi-directional flow indication determines gas is flowing through the physical station in the reverse direction, otherwise, the differential pressure is forced to 0.0.

When the flow direction is indicated as "reverse", the differential pressure will be indicated on Run 2, and the differential pressure for Run 1 will be forced to 0.0.

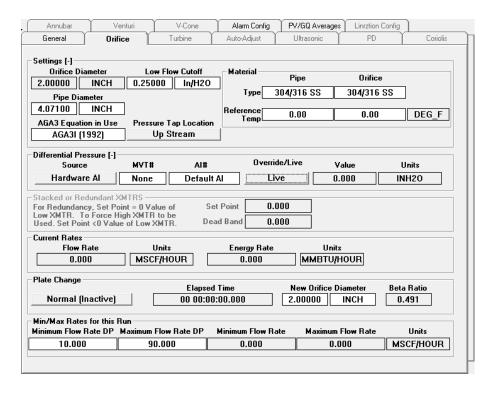


Figure 3-54. Configuring Run 2 Orifice tab for Bi-Directional Control (Example 3)

Example 4— Bi-Directional Control for One Measurement Run, Flow Reverses Direction, Isolated SP and Temp Transmitters. Non-Isolated DP Transmitter

To configure bi-directional measurement for a single physical orifice meter run, where gas flows through the run in both directions, and there is a single differential pressure input, but each run has its own static pressure and temperature inputs, follow these steps:

- Run 1 will be configured as an orifice measurement run, assigned to Station 1.
- Run 2 will be configured as an orifice measurement run, assigned to Station 2.
- Station 2 will be configured as a "reverse" measurement station.

the I/O

Configure Configure the I/O for the static pressure and flowing temperature for both the odd-numbered ("forward") run and the even-numbered ("reverse") run. Instead of assigning a run specific differential pressure, select a shared differential pressure input.

> In this example, the Run 1 static pressure, and flowing temperature inputs are assigned to analog input points 2 and 3 respectively on one I/O card.

Input PNT	s ———	Zero	Span	Units	Assignment
1	180.7	0.0	300.0	In/H20	Shared DP 1
2	437.0	0.0	1000.0	PSI	Run 1 Static Pressure
3	68.8	0.0	140.0	DEG_F	Run 1 Temperature
4	16.7	0.0	100.0		

Figure 3-55. Configuring Run 1 I/O for Bi-Directional Control (Example 4)

The Run 2 static pressure, and flowing temperature inputs are assigned to analog input points 2 and 3 respectively on a separate I/O card.

However, because only one transmitter will be used for differential pressure measurement, the Shared DP 1 is assigned to analog input point 1 on the first I/O card.

Because there are separate static pressure and flowing temperature transmitters being used for each direction, the Zeroes, Spans and even Units can vary between the "forward" and "reverse" runs. Of course, this is not the case with the differential pressure transmitter.

Note: If this example were using 8 point analog input cards, the measurement inputs for both runs could have been assigned to a single I/O card, using 5 of the 8 inputs).

Issued: February 2023

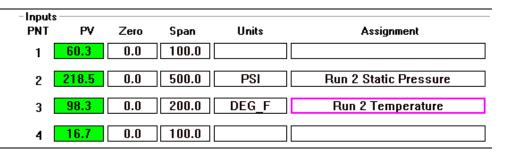


Figure 3-56. Configuring Run 2 I/O for Bi-Directional Control (Example 4)

Configuring the Stations

Both Station 1 (the "forward" measurement station) and Station 2 (the "reverse" measurement station) must be configured.

Configure Station 1 by giving it a unique station name, and assigning the other configuration parameters as required.

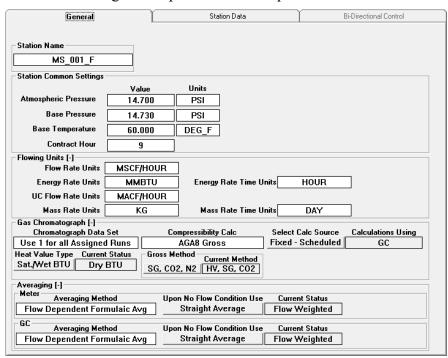


Figure 3-57. Configuring Station 1 for Bi-Directional Control (Example 4)

Configure Station 2 by giving it a unique station name and setting the "Station Direction" to "Reverse". Assign the other configuration items as required.

In most cases, these configuration settings should be identical to the configuration settings for Station 1. However, it is possible to use a configuration in Station 1 ("forward") that is different than the configuration in Station 2 ("reverse").

Notice that after changing the "Station Direction" to "Reverse" that the Bi-Directional Control tab became available for configuration.

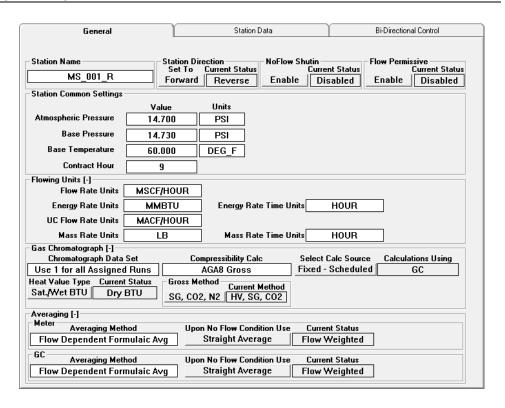


Figure 3-58. Configuring Station 2 for Bi-Directional Control (Example 4)

Configuring the Measurement Runs

Both Run 1 (the "forward" measurement run) and Run 2 (the "reverse" measurement run) must be configured.

On the General tab, configure Run 1 by giving it a unique "Run ID", selecting a "Measurement Type" of "Orifice", and making the "Station Assignment" to Station 1 (MS_001_F in this example). Leave the "Static Pressure" and "Flowing Temperature Source" selected as "Hardware AI", using the "Default AI" as the "AI#". Change other settings as required.

In this example, because there is only a single measurement run, no run staging (also referred to as run switching or tube switching) is possible, so the "Run Staging Rank" may be left at 0.

Issued: February 2023

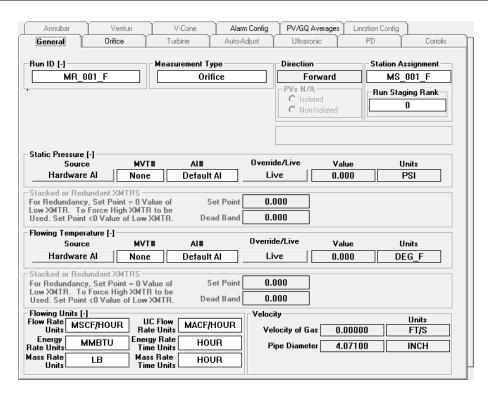


Figure 3-59. Configuring Run 1 for Bi-Directional Control (Example 4)

On the "Orifice" tab for Run 1, leave the "Differential Pressure Source" selected as "Hardware AI" and select Shared DP 1 as the "AI#". Change other settings as required.

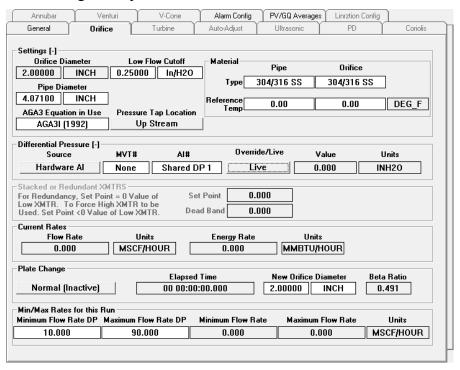


Figure 3-60. Configuring Run 1 Orifice tab for Bi-Directional Control (Example 3)

On the General tab, configure Run 2 by giving it a unique "Run ID", selecting a "Measurement Type" of "Orifice", and making the "Station Assignment" to Station 2 (MS_001_R in this example). Leave the "Static Pressure" and "Flowing Temperature Source" selected as "Hardware AI", using the "Default AI" as the "AI#". Change other settings as required.

Because Run 2 is assigned to Station 2 (which is configured as a "reverse" station), the "Direction" field changes to "Reverse", and the items in the "PVs" box become available for configuration. In this example, since the static pressure and temperature measurement in each direction is being performed with a different set of measurement inputs, the "Isolated" radio button should be selected.

When the "Isolated" radio button is selected, the live input values for static pressure and flowing temperature for Run 2 come from the physical I/O defined for Run 2 in the I/O configuration section.

Because this run is assigned to a "reverse" measurement station, the option for changing the "Run Staging Rank" is disabled. It is important that the run staging rank for the reverse runs be left at 0.

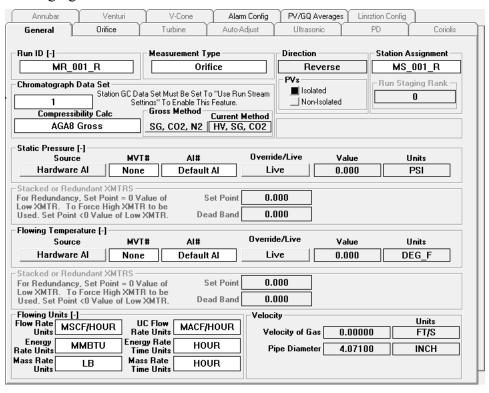


Figure 3-61. Configuring General tab (for Run 2) in Bi-Directional Control (Example 4)

On the "Orifice" tab for Run 2, leave the "Differential Pressure Source" selected as "Hardware AI" and select "Shared DP 1" as the "AI#". Change all other settings to the same values as set on Run 1, including "Pressure Tap Location".

Because the "Isolated" PVs radio button was selected on the "General" tab, the live input value for differential pressure for Run 2 comes from the physical I/O defined for the Shared DP 1 in the I/O configuration section. However, the differential pressure value is only applied to Run 2 for measurement when the bi-directional flow indication determines gas is flowing through the physical station in the reverse direction, otherwise, the differential pressure is forced to 0.0.

When the flow direction is indicated as "reverse", the differential pressure will be indicated on Run 2, and the differential pressure for Run 1 will be forced to 0.0.

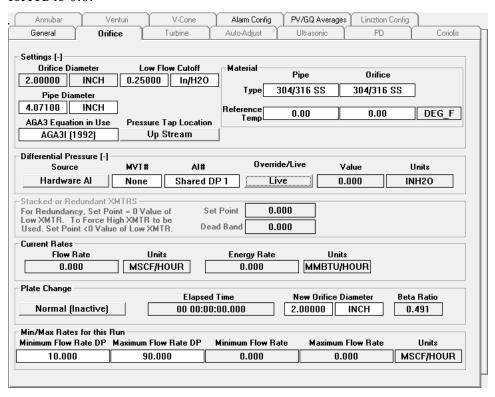


Figure 3-62. Configuring Run 2 Orifice tab for Bi-Directional Control (Example 4)

Example 5– Bi-Directional Control for One Measurement Run, Flow Reverses Direction, Multi-Variable Transmitters (MVTs) Used

To configure bi-directional measurement for a single physical orifice meter run, where gas flows through the run in both directions, and there are single differential pressure, static pressure and temperature inputs, follow these steps:

- Run 1 will be configured as an orifice measurement run, assigned to Station 1.
- Run 2 will be configured as an orifice measurement run, assigned to Station 2.
- Station 2 will be configured as a "reverse" measurement station.

Configuring the Stations

Both Station 1 (the "forward" measurement station) and Station 2 (the "reverse" measurement station) must be configured.

Configure Station 1 by giving it a unique station name, and assigning the other configuration parameters as required.

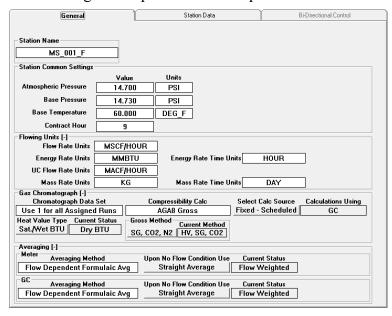


Figure 3-63. Configuring Station 1 for Bi-Directional Control (Example 5)

Configure Station 2 by giving it a unique station name and setting the "Station Direction" to "Reverse." Assign the other configuration items as required.

In most cases, these configuration settings should be identical to the configuration settings for Station 1. However, it is possible to use a configuration in Station 1 ("forward") that is different than the configuration in Station 2 ("reverse").

Station Data General Bi-Directional Control Station Direction
Set To Current Status NoFlow Shutin Current Status Current Status MS 001 R Forward Reverse Enable Disabled Enable Disabled Station Common Settings Atmospheric Pressure 14,700 PSI 14.730 **Base Pressure** PSI **Base Temperature** 60.000 DEG F Contract Hour Flowing Units [-] Flow Rate Units MSCF/HOUR **Energy Rate Units** MMBTU **Energy Rate Time Units** HOUR MACF/HOUR **UC Flow Rate Units** Mass Rate Units HOUR LB Mass Rate Time Units Gas Chromatograph [-] Compressibility Calc Select Calc Source Calculations Using Chromatograph Data Set Use 1 for all Assigned Runs Fixed - Scheduled AGA8 Gross GC Heat Value Type Current Status Gross Method-**Current Method** Sat./Wet BTU Dry BTU SG, CO2, N2 HV, SG, CO2 Averaging [-] Meter Upon No Flow Condition Use **Averaging Method Current Status** Straight Average Flow Dependent Formulaic Avg Flow Weighted Upon No Flow Condition Use Averaging Method **Current Status** Flow Dependent Formulaic Avg Straight Average Flow Weighted

Notice that after changing the "Station Direction" to "Reverse" that the Bi-Directional Control tab became available for configuration.

Figure 3-64. Configuring Station 2 for Bi-Directional Control (Example 5)

Configuring the Measurement Runs

Both Run 1 (the "forward" measurement run) and Run 2 (the "reverse" measurement run) must be configured.

On the General tab, configure Run 1 by giving it a unique "Run ID", selecting a "Measurement Type" of "Orifice", and making a "Station Assignment" of Station 1 (MS_001_F in this example). Change the "Static Pressure" and "Flowing Temperature Source" selection to "MVT", and select "MVT 1" as the "MVT#." Change other settings as required.

In this example, because there is only a single measurement run, no run staging (also referred to as run switching or tube switching) is possible, so the "Run Staging Rank" may be left at 0.

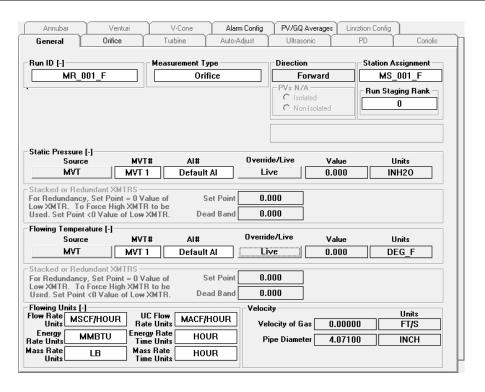


Figure 3-65. Configuring Run 1 for Bi-Directional Control (Example 5)

On the "Orifice" tab for Run 1, change the "Differential Pressure Source" to "MVT" and select "MVT 1" as the "MVT#". Change other settings as required.

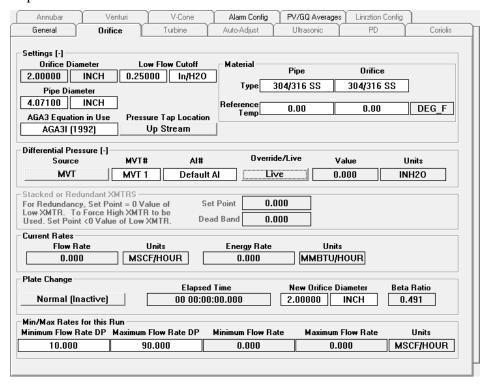


Figure 3-66. Configuring Run 1 Orifice tab for Bi-Directional Control (Example 5)

On the General tab, configure Run 2 by giving it a unique "Run ID", selecting a "Measurement Type" of "Orifice", and making a "Station Assignment" of Station 2 (MS 001 R in this example).

Because Run 2 is assigned to Station 2 (which is configured as a "reverse" station), the "Direction" field changes to "Reverse," and the items in the "PVs" box become available for configuration.

When using a single MVT to measure gas in both directions, as in this example, the "Non-Isolated" radio button should be selected.

When the "Non-Isolated" radio button is selected, the live input values for static pressure and flowing temperature applied to Run 1 are also applied to Run 2.

Because this run is assigned to a "reverse" measurement station, the option for changing the "Run Staging Rank" is disabled. It is important that the run staging rank for the reverse runs be left at 0.

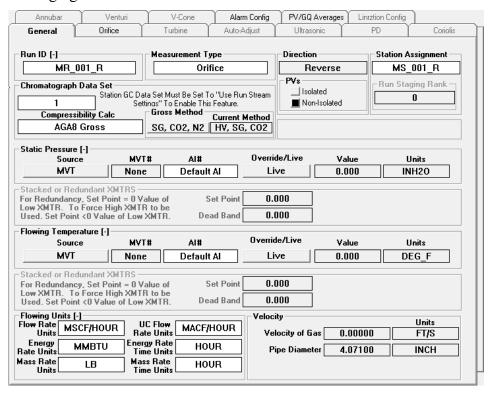


Figure 3-67. Configuring General tab (for Run 2) in Bi-Directional Control (Example 5)

On the Orifice tab for Run 2, change all other settings to the same values as set on Run 1, except for "Pressure Tap Location" which should be set to the opposite of the setting for Run 1.

Because the "Non-Isolated" PVs radio button was selected on the "General" tab, the live input value for differential pressure for Run 2 comes from the MVT defined by the MVT# for Run 1. However, the differential pressure value is only applied to Run 2 for measurement when the bi-directional flow indication determines gas is flowing through the physical station in the reverse direction, otherwise, the differential pressure is forced to 0.0.

When the flow direction is indicated as "reverse", the differential pressure will be indicated on Run 2, and the differential pressure for Run 1 will be forced to 0.0.

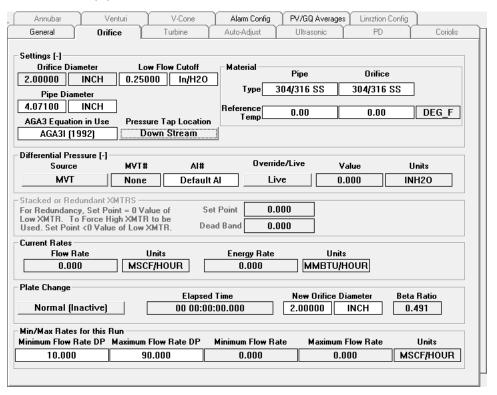


Figure 3-68. Configuring Run 2 Orifice tab for Bi-Directional Control (Example 5)

3.2.9 General tab

Depending on the version, Station Manager supports either six or eight meter runs, each of which you must assign to a station. Either left click on a run icon, or right-click on the icon and choose from the pop-up menu to open menus for that run. To open the General tab, choose **Configuration** from the pop-up menu.

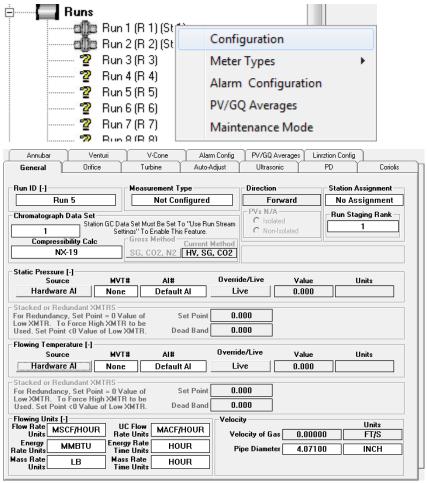


Figure 3-69. General tab (Runs)

Field	Description
Run ID	Enter a name and press the [Enter] key to save your entry. The generic Run ID of Run 1 will be replaced by the user specific Run ID.
Measurement Type	Select the measurement type from the drop-down menu.
Chromatograph Data Set	The chromatograph stream used for measurement of this run may be assigned at the Station level, or at the Run level. If a chromatograph stream is assigned at the Station level, the user will be unable to assign the stream at the run level.



If the chromatograph stream is assigned as 0 at the Station level, the user will be able to assign the stream at the run level.

Note: In order to enable this section, the Chromatograph Data Set field on the General station configuration tab must be set to "Use Run Stream Settings."

Compressibility Calc

Use the drop-down menu to select the calculation you want Station Manager to use for compressibility, and press the **[Enter]** key to save your selection.

NX-19 AGA8 Detail AGA8 Gross

Note: You can only set this at the run level if the Chromatograph Data Set is set at the run level.

Gross Method SG,CO2, N2 / HV, SG, CO2

If you choose AGA8 Gross for your compressibility calculations select the gross method. The current method shows in the **Current Method** field; to toggle the gross method used to the other method, click the button; the newly chosen method shows in the **Current Method** field, and the now unused method appears on the label of the button.

Choices include:

SG, CO2, N2	The Station Manager application performs calculations using inputs relative density (specific gravity or SG), and the mole fractions of nitrogen (N2) and carbon dioxide (CO2).
HV, SG, CO2	The Station Manager application performs calculations using inputs the heating value (HV), the relative density (specific gravity or SG), and the mole fraction of carbon dioxide (CO2).

Note: These options are only available for the AGA8 Gross compressibility calculation.

Direction

If the run being configured has been assigned to a station configured as a forward flowing station, this will be indicated on this screen as "Forward", and the PV's section will be grayed out.

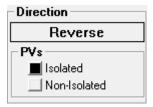
Issued: February 2023

<u>PVs</u>

If the run being configured has been assigned to a station configured as a reverse flowing station, this will be indicated on this screen as "Reverse." It will then be possible to configure the PVs (Process Variables) section. The user may then select between Isolated and Non-Isolated PVs.

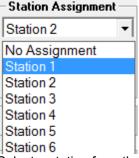
Isolated PV is used when the forward run and reverse run each are using different Input Sources.

Non-Isolated PV is used when the forward run and reverse run are using the same Input Sources.



Station Assignment

To assign the run to a station, click on the Station Assignment box.

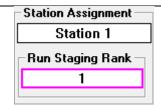


Select a station from the drop down menu, and press **[Enter]**. (Note, if the Station ID has been changed on the Station Configuration screen, the user defined Station Name will appear in the drop down menu, instead of the generic Station Name.) After assigning a run to a station, the run will appear under the station in the Site Tree.

Run Staging Rank

If there is more than one run assigned to a station, and the station will be configured for Meter Run Staging (or Meter Tube Switching), then the Run Staging Rank may be assigned by entering the rank here. The rank entered should be from 1 to the maximum number of runs assigned to the station.

Note: If this run is set up for Reverse flow, the Run Staging Rank must be assigned as 0.



Static Pressure and Flowing Temperature

Every type of measurement requires a static pressure measurement and a temperature measurement.

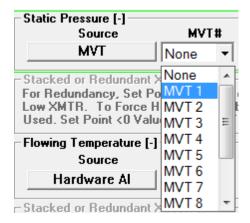
Source

The source for these measurements may come from either Analog Inputs via the I/O cards (Hardware AI) or via serial communications to the Multi-Variable Transmitters (MVT).

The selection of the source is made by clicking on the button.

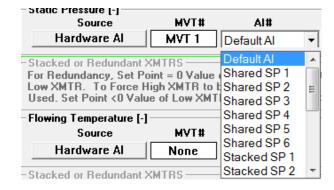
MVT#

If MVT is chosen, the user may select from any of the 12 MVTs. In the 6-run version, you also may select from 18 HART and 18 WiHART transmitters.



AI#

If Hardware AI is chosen, the user may select from the Analog Input (AI) to be used from a drop down menu.

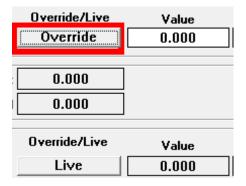


The user may select from the Default AI (this would be the "Run X Static Pressure" or "Run X Temperature" selections from the I/O configuration page), or from a Shared Transmitter ("Shared SP X" or "Shared FTemp X" from the I/O configuration page) or a pair of Stacked transmitters ("Stacked SP X Lo/Hi" or "Stacked FTemp X Lo/Hi" from the I/O configuration page).

If the Default AI or Shared transmitters are chosen, the measurement source configuration is completed. If Stacked transmitters are chosen, see the "Stacked or Redundant XMTRS" section.

Override/Live

The user may override the measurement values in use by selecting Override instead of Live



When Override is selected, the user may enter the desired value for the measurement to be used.

When Live is selected, the Value will be driven by the appropriate input value.

Note: the action of changing from Live to Override or Override to Live is entered in the Audit trail. When in Override, any changes made to the Value are entered in the Audit Trail.

Note: These overrides are done at the Run Measurement level, not at the I/O level. Because of this, care needs to be taken when overriding runs configured for bi-directional measurement, because the logic overriding the measurement values occurs after the logic for routing the measurement inputs to the proper run. Additionally, any input alarms and conditioning are not performed when Override is active.

Value

The static pressure and flowing temperature values in use are shown here.

Value
0.000

When "Live" is selected via the "Override/Live" button, this value is the value coming from the Static Pressure or Flowing Temperature Source.

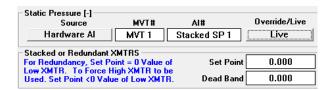
When "Override" is selected via the "Override/Live" button, this value may be entered by the user, and the entered value will be used in the measurement calculation.

Units

The units for the measurement inputs come from the input source.

Stacked or Redundant Transmitters

If Stacked transmitters are chosen, the user must configure the transmitters as Stacked transmitters or Redundant transmitters.



Stacked Transmitters operate such that one transmitter measures at a low range of measurement, and a second transmitter measures at a higher range. When using Stacked Transmitters, the user must enter a set point where the measurement will transition from the low range transmitter to the high range transmitter. A deadband may be entered, that will prevent the measurement from switching back and forth between the high and low transmitters.

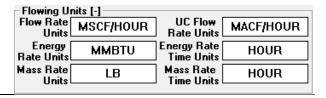
Redundant transmitters operate such that one transmitter is used for measurement all of the time, and the second transmitter is available in case the first transmitter fails.

To configure the stacked transmitters to be used as redundant transmitters, the user must set the Set Point to 0.0. This will set the Stacked SP X Lo (or Stacked FTemp X Lo) to be the primary transmitter, and the Stacked SP X Hi (or Stacked FTemp X Lo) transmitter will only be used if the Lo transmitter indicates a failure.

To force the Hi transmitter to be used, the user must set the Set Point to a value less than 0.0.

Flowing Units

Flow Rate, Energy Rate, and Mass Rate units and time units may be assigned on a per run basis.



Issued: February 2023

Flow Rate Units

MSCF/YEAR

MSCF/DAY

MSCF/HOUR

MSCF/MIN

MSCF/SEC

E3M3/YEAR

E3M3/DAY

E3M3/HOUR

E3M3/MIN

E3M3/SEC

MMSCF/YEAR

MMSCF/DAY

MMSCF/HOUR

MMSCF/MIN

MMSCF/SEC

E6M3/YEAR

E6M3/DAY

E6M3/HOUR

E6M3/MIN

E6M3/SEC

CCF/YEAR

CCF/DAY

CCF/HOUR

CCF/MIN

CCF/SEC

where:

MSCF – Thousands of Standard Cubic Feet

MMSCF - Millions of Standard Cubic Feet

E3M3 - Thousands of Standard Cubic Meters

MIN - Minutes

SEC - Seconds

E6M3 - Millions of Cubic Meters

CCF - Hundreds of Cubic Feet

Uncorrected (UC) Flow Rate Units

MACF/YEAR

MACF/DAY

MACF/HOUR

MACF/MIN

MACF/SEC

E3M3/YEAR

E3M3/DAY

E3M3/HOUR

E3M3/MIN

E3M3/SEC

MMACF/YEAR

MMACF/DAY

MMACF/HOUR

MMACF/MIN

MMACF/SEC

E6M3/YEAR

E6M3/DAY

E6M3/HOUR

E6M3/MIN

E6M3/SEC

CCF/YEAR

CCF/DAY CCF/HOUR CCF/MIN CCF/SEC

where:

ACF - Actual Cubic Feet

E3M3 – Thousands of Actual Cubic Meters

E6M3 – Millions of Cubic Meters CCF – Hundreds of Cubic Feet

Energy Rate Units

MMBTU

MJ

ΚJ

J

ERG

KCAL

CAL

CHU

KWH

QUAD

THERM

TONTNT

TONCOAL

MMMBTU

GJ

BTU

MMBTU605

MMMBTU605

BTU605

where:

MMBTU - Millions of British Thermal Units

MJ - Mega joules

KJ - Kilojoules

J – Joules

ERG – Ergs

KCAL – Kilocalories

CAL - Calories

CHU - Celsius-heat unit

KWH – Kilowatt Hours

QUAD - short-scale quadrillion

THERM – Therms

TONTNT - Tons of TNT

TONCOAL - Tons of Coal

MMMBTU - Billions of BTU

GJ – Gigajoules

BTU – British Thermal Units

MMBTU605 - Millions of British Thermal Units at

60.5 degrees F.

MMMBTU605 – Billions of British Thermal Units at

60.5 degrees F.

BTU605 – British Thermal Units at 60.5 degrees F.

Mass Rate Units

LB

MG

-	1/0	
	KG G USTON UKTON MTON OZ TROYOZ GRAIN SLUG CARAT	
	Where: LB MG KG G USTON UKTON MTON OZ TROYOZ GRAIN SLUG CARAT Time Units: YEAR DAY HOUR MIN SEC	is pounds is milligrams is kilograms is grams is a United States ton is a United Kingdom ton is a metric ton is an ounce is a troy ounce is a grain is a slug is a carat
<u>Velocity</u>		
Velocity of Gas	The velocity of	of gas traveling through the pipe.
Units		ing units associated with the velocity e pipe diameter.
Pipe Diameter	The diameter flows.	of the pipe through which the gas

3.2.10 Alarm Config Tab (Run Configuration)

The Station Manager program allows for certain items to be configured as alarms.

When an item is configured as an alarm, then any time the value goes into or out of the alarm state, an entry will be made in the Audit Trail.

In addition, if the Station Manager controller is being used in a BSAP network, then these alarms will be reported to the SCADA host, if the SCADA host supports BSAP alarms.

To configure the alarm limits for run specific data, click on the Alarm Config Tab or right click on the run icon and choose **Alarm Configuration** from the pop-up menu.

This screen opens:

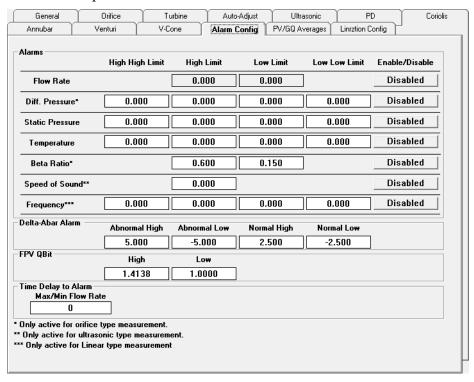


Figure 3-70. Alarm Config tabThe following items may be configured for alarms.

Field	Description
Flow Rate	The High and Low Limits for the flow rate are automatically calculated, based on the Maximum and Minimum flow rates through the meter run.
Diff Pressure	For an orifice meter only, High-High, High, Low, and Low-Low alarm limits may be set for the differential pressure input.

Static Pressure	For all meter types, High-High, High, Low, and Low-Low alarm limits may be set for the static pressure input.
Temperature	For all meter types, High-High, High, Low, and Low-Low alarm limits may be set for the flowing temperature input.
Beta Ratio	For an orifice meter only, High and Low alarm limits may be set for the calculated beta ratio.
Speed of Sound	For an ultrasonic meter only, the High alarm limit for the deviation between the speed of sound as calculated using AGA 10 and the speed of sound reported from the ultrasonic meter may be configured.
Frequency	For linear meter types (ultrasonic, turbine, AutoAdjust, and positive displacement (PD) meters, High-High, High, Low, and Low-Low alarm limits may be set for the frequency input.
Enabled/Disabled	An alarm may be Enabled or Disabled via the Enable/Disable button. By default, the alarms are disabled. When an alarm is disabled, no entries are made into the Audit Trail if the value goes in to or out of alarm.
Delta – Abar Alarm	For auto-adjust meters, this configures the high- high, high, low, and low-low alarm limits. This is only valid where the meter type is auto-adjust.
FPV Q Bit High Low	These fields set the high and low values that trigger the questionable data flag for the FPV calculated using the AGA8 equation. (The questionable data flag shows as a Q in the status grid at the top of the page.)
Time Delay to Alarm Max Min Flow Rate	Specify the amount of time (in seconds) that the flow rate must be continuously above the max value or below the min value to generate the alarm. This acts as a deadband in case the flow should momentarily fluctuate around the min/max limit.

3.2.11 Linearization Config Tab (Run Configuration)

Note: In order to access this tab, you must first configure the measurement type for the meter run to **Turbine**.

The Station Manager program allows for the linearization of the frequency outputs of turbine meters.

To configure the linearization table, click on the Linearization Config tab or right click on the run icon and choose **Meter Types > Turbine > Linearization Configuration** from the pop-up menus.

This screen opens:

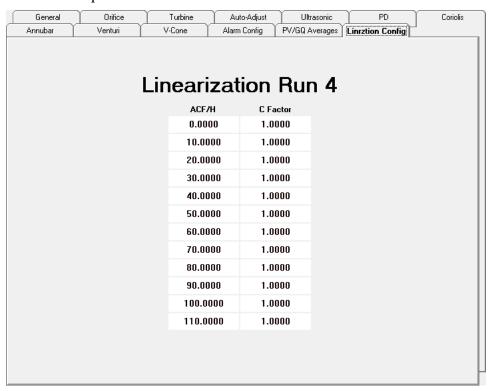


Figure 3-71. Linearization Config tab

This linearization table must be configured by the user. For up to 12 points, the user must enter an uncorrected flow rate in units of Actual Cubic Feet per hour, and an associated correction factor (C factor). The Station Manager program will interpolate between any two points on this table to calculate the C Factor for a specific flow rate.



If the user does not configure all 12 points, then the last non-zero entry for ACF/H will be used as the last correction factor. Any uncorrected flow rate above this point will use the correction factor for this point, there will be no interpolation performed.

3.2.12 PV/GQ Averages Tab (Run Configuration)

The Station Manager program calculates and displays averages for the process values used for measurement, and the gas quality data used by the measurement for each run.

To view the averages for the process variables and gas quality data, click on the PV/GQ Averages tab or right click on the run icon and choose **PV/GQ Averages** from the pop-up menu. This screen opens:

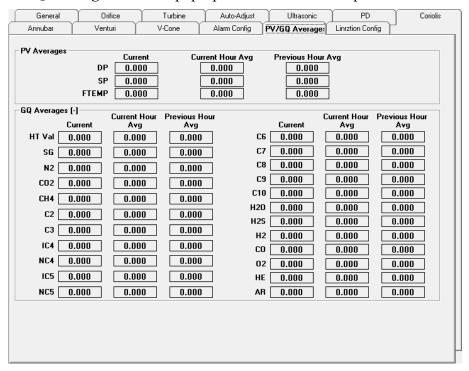


Figure 3-72. PV/GQ Averages tab

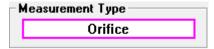
The averaging method for the differential pressure is always flow-dependent time-weighted linear averaging.

The averaging method for the static pressure and flowing temperature may be any of the API averaging methods.

The averaging method for the gas quality data is always time-weighted linear averaging.

3.2.13 Orifice Tab (Run Configuration)

To configure a run as an orifice meter, click on the Measurement Type in the General tab and select Orifice from the drop down menu.



Click the Orifice tab, or right click on the run icon and choose **Meter Types > Orifice** from the pop-up menus and the following screen opens:

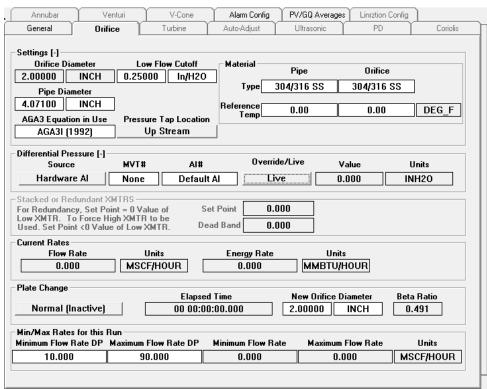
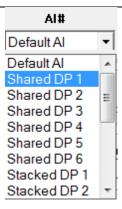


Figure 3-73. Orifice tab

Field Settings	Description
Orifice Diameter	The Orifice Diameter in use is displayed in the "Settings" section of this screen. To change the orifice diameter, see the "Plate Change" section.
Pipe Diameter	The pipe diameter change may be made by clicking on the box with the pipe diameter value in it and entering the desired pipe diameter value. When the new value of the pipe diameter is entered, a new beta ratio will be calculated and displayed in the "Plate Change" section.
Low Flow Cutoff	The low flow cutoff is the minimum value for differential pressure where measurement will be performed. If the differential pressure drops below this value, the measured flow will go to zero.

The user may change the low flow cutoff value by clicking on the box with the low flow cutoff value and entering a new value, and clicking OK. The user may change the units that the low flow cutoff value is measured, by clicking on the units box, and selecting the desired units from the drop down menu. The user may change the pressure tap location by **Pressure Tap Location** clicking on Pressure Tap Location button. Shows the equation used for AGA3 calculations. In AGA3 Equation in Use order to use the AGA3 2012 equation, you must have ControlWave Micro firmware 5.6 or newer. Material Pipe Type Specify the pipe material. **Orifice Type** Specify the orifice material. **Pipe Reference Temp** Specify the reference temperature of pipe measurement. Orifice Reference Temp Specify the reference temperature of orifice material. Differential Pressure The source for the Differential Pressure Source measurement may come from either Analog Inputs via the I/O cards (Hardware AI) or via serial communications to the Multi-Variable Transmitters (MVT). The selection of the source is made via the Hardware AI/MVT button on the screen: MVT# If MVT is chosen, the user may select from any of 12 MVTs. In the Station Manager 6-run version, you can also choose from 18 HART and 18 WiHART transmitters. MVT# MVT 2 None MVT 1 MVT 2 MVT 3 MVT 4 MVT 5 MVT 6 MVT 7 MVT 8 If Hardware AI is chosen, the user may select from AI# the Analog Input (AI) to be used from a drop down menu.



The user may select from the Default AI (this would be the "Run X Differential Pressure" selection from the I/O configuration page), or from a Shared Transmitter ("Shared DP X" from the I/O configuration page) or a pair of Stacked transmitters ("Stacked DP X Lo/Hi" from the I/O configuration page).

If the Default AI or Shared transmitters are chosen, the measurement source configuration is completed. If Stacked transmitters are chosen, see the "Stacked or Redundant XMTRS" section.

Override / Live

The user may override the measurement values in use by selecting Override instead of Live

When Override is selected, the user may enter the desired value for the measurement to be used. When Live is selected, the Value will be driven by the appropriate input value.

Note: the action of changing from Live to Override or Override to Live is entered in the Audit trail. When in Override, any changes made to the Value are entered in the Audit Trail.

Note: This override is done at the Run Measurement level, not at the I/O level. Because of this, care needs to be taken when overriding runs configured for bi-directional measurement, because the logic overriding the measurement values occurs after the logic for routing the measurement inputs to the proper run. Additionally, any input alarms and conditioning are not performed when Override is active.

Value

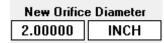
The differential pressure value in use is shown here.

When "Live" is selected via the "Override/Live" button, this value is the value coming from the Differential Pressure Source.

	When "Override" is selected via the "Override/Live" button, this value may be entered by the user, and the entered value will be used in the measurement calculation.
Units	The units for the measurement inputs come from the input source.
Stacked or Redundant XMTRs	If stacked transmitters are chosen, the user must configure the transmitters as Stacked or Redundant transmitters.
	Stacked Transmitters operate such that one transmitter measures at a low range of measurement, and a second transmitter measures at a higher range.
	Redundant transmitters operate such that one transmitter is used for measurement all of the time, and the second transmitter is available in case the first transmitter fails.
Set Point	When using Stacked Transmitters, the user must enter a set point where the measurement will transition from the low range transmitter to the high range transmitter.
	To configure the stacked transmitters to be used as redundant transmitters, the user must set the Set Point to 0.0. This will set the Stacked DP X Lo to be the primary transmitter, and the Stacked DP X Hi transmitter will only be used if the Lo transmitter indicates a failure.
	To force the Hi transmitter to be used, the user must set the Set Point to a value less than 0.0.
Dead Band	A deadband may be entered, that will prevent the measurement from switching back and forth between the high and low transmitters.
Current Rate	The current flow and energy rates are displayed on this screen. The units of flow and energy rates are set from the General page.
Plate Change	To change the orifice diameter, the user must change the Plate Change mode from Normal (Inactive) to Plate Change (Active)
	While the Plate Change mode is Active, the Differential Pressure, Static Pressure and Temperature values are frozen.
Elapsed Time	While the Plate Change mode is Active, the elapsed time is displayed.

New Orifice Diameter

The new orifice diameter and orifice diameter units may be entered here.



The orifice diameter in use does not change until the plate change mode changes from "Plate Change (Active)" to "Normal (Inactive)".

The Orifice Diameter in use appears in the Settings section

Beta Ratio

The beta ratio is the orifice diameter divided by the pipe diameter.

Beta Ratio 0.491

The beta ratio is displayed on this screen. If the beta ratio is out of range, it will appear in red text. The low limit for the beta ratio is 0.15 and the high limit for the beta ratio is 0.60.

Min/Max Rates for this Run

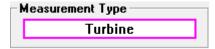
The minimum and maximum flow rates for an orifice run are calculated outputs of the AGA3. The DP minimum is calculated using the Minimum Flow Rate DP setting and the DP maximum is calculated using the Maximum Flow Rate DP setting.

The Minimum Flow Rate DP setting is the DP in inches to use for the minimum flow calculation.

The Maximum Flow Rate DP setting is the percent of DP span to use for the maximum flow calculation.

3.2.14 Turbine Tab (Run Configuration)

To configure a run as a turbine meter, click on the Measurement Type in the General tab and select **Turbine** from the drop down menu.



Click the Turbine tab, or right click on the run icon and choose **Meter Types > Turbine > General** from the pop-up menus and the following screen opens:

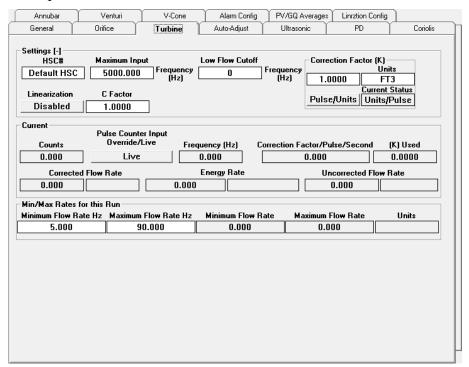


Figure 3-74. Turbine tab

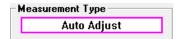
Field	Description
<u>Settings</u>	
HSC#	The source for the High Speed Counter (HSC) comes from a High Speed Counter Input via the I/O cards. The user may select from the Default HSC (this would be the "Run X AGA7 Hz" selection from the I/O configuration page), or from a Shared Hz input.
Maximum Input	The maximum input is used to calculate the minimum and maximum flow rates through the meter run.
Low Flow Cutoff	The low flow cutoff is the minimum frequency that will still be considered valid for flow measurement. If the frequency of the inputs from the high speed counter fall below this number, volume will not be measured.

Correction Factor (K)	The correction factor represents either the volume (in Cubic Feet) per pulse, or the number of pulses per volume (in Cubic Feet). The choice is reflected in the Current Status field.
	The K factor value is entered in the box, while the K factor units are selected by using the pushbutton. This information is available from the turbine meter data plate.
Linearization Enabled / Disabled	Enables/disables use of the linearization table.
C Factor	The current linearization factor being used.
Current	
Counts	The "Counts" value represents the total number of events (pulses) in the most recent execution cycle coming from the High Speed Counter Input.
Pulse Counter Input Override / Input	The user may override the measurement values in use by selecting Override instead of Live
	Pulse Counter Input Override/Live
	Live
	When Override is selected, the user may enter the desired value for the frequency to be used.
	When Live is selected, the Value will be driven by the appropriate high speed counter input value.
	Note: The action of changing from Live to Override or Override to Live is entered in the Audit trail. When in Override, any changes made to the Value are entered in the Audit Trail.
	Note: This override is done at the Run Measurement level, not at the I/O level. Because of this, care needs to be taken when overriding runs configured for bi-directional measurement, because the logic overriding the measurement values occurs after the logic for routing the measurement inputs to the proper run. Additionally, any input alarms and conditioning are not performed when Override is active.
Frequency (Hz)	The frequency value in use is shown here.
	Frequency (Hz) 0.000
	When "Live" is selected via the "Override/Live" button, this value is the value coming from the HSC input.

	When "Override" is selected via the "Override/Live" button, this value may be entered by the user. The entered value will be used in the measurement calculation.
Correction Factor / Pulse/ Second	This is the correction factor calculated by the AGA 7 equation.
	Correction Factor/Pulse/Second
	0.000
	This correction factor multiplied by the frequency will provide the corrected flow rate.
(K) Used	The AGA 7 calculation requires the K factor to be input in units of Cubic Feet/Pulse. The (K) Used value always represents the K factor in the units of Cubic Feet/Pulse.
Corrected Flow Rate, Energy Rate, Uncorrected Flow Rate	The current corrected flow, energy rate, and uncorrected flow rate are displayed on this screen. The units of flow and energy rates are set from the General page.
Min / Max Rates for this Run	The minimum and maximum flow rates for a turbine meter run are calculated as follows:
	Minimum Flow Rate = max frequency * AGA7 Factor * (Min /100)
	Maximum Flow Rate = max frequency * AGA7 Factor * (Max/100)
	Where: Min defaults to 5 Max defaults to 90
	Minimum Flow Rate Hz = The percent of maximum frequency to use for the Minimum Flow calculation.
	Maximum Flow Rate Hz = The percent of maximum frequency to use for the Maximum Flow calculation.

3.2.15 Auto-Adjust Tab (Run Configuration)

To configure a run as an auto-adjust turbine meter, click on the Measurement Type in the General tab and select **Auto Adjust** from the drop down menu.



Click the Auto-Adjust tab or right click on the run icon and choose **Meter Types > Auto-Adjust** from the pop-up menus, and the following screen opens:

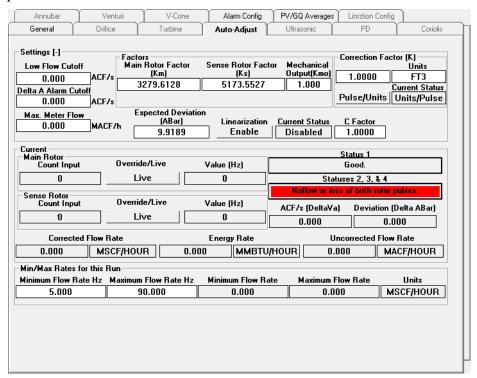


Figure 3-75. Auto-Adjust tab

Field	Description
Settings	
Low Flow Cutoff	The low flow cutoff is the minimum flow, in units of Actual Cubic Feet per second that will still be considered valid for flow measurement. If the flow rate falls below this number, volume will not be measured.
Main Rotor Factor (Km)	The main rotor is the upstream rotor and has a greater blade angle to the flow of gas.
Sense Rotor Factor (Ks)	The sense rotor is the downstream rotor and has a shallower blade angle to the flow of gas.
Mechanical Output (Kmo)	Used to determine unadjusted volume totals with only main rotor pulses. Set to 0 if these are not needed.

Linearization Enabled / Disabled	Enable / disable use of the linearization table using this button. The Current Status field shows whether the linearization table is in use.
Max Meter Flow	The maximum meter flow is the maximum flow rate through the meter, in units of thousands of actual cubic feet per hour. This number is used to calculate the Minimum and maximum flow rate through the meter.
Expected Deviation (Abar)	Average relative adjustment between main and sense rotors.
C Factor	Current linearization factor.
Correction Factor (K)	The correction factor represents either the volume (in Cubic Feet) per pulse, or the number of pulses per volume (in Cubic Feet). The choice is reflected in the Current Status field.
	The K factor value is entered in the box, while the K factor units are selected by using the pushbutton. This information is available from the turbine meter data plate.
Current	
Main Rotor Count Input	Pulse count from main rotor.
Sense Rotor Count Input	Pulse count from sense rotor.
Main Rotor Override / Live,	You can override the measurement value in use by selecting Override instead of Live
	When Override is selected, you enter the desired value for the frequency to be used in the Main Rotor Value (Hz) field.
	When Live is selected, the value will be driven by the main rotor high speed counter input value.
	Note: The action of changing from Live to Override or Override to Live is entered in the Audit trail. When in Override, any changes made to the Value are entered in the Audit Trail.
	Note: This override is done at the Run Measurement level, not at the I/O level. Because of this, care needs to be taken when overriding runs configured for bi-directional measurement, because the logic overriding the measurement values occurs after the logic for routing the measurement inputs to the proper run. Additionally, any input alarms and conditioning are not performed when Override is active.
Sense Rotor Override / Live	You can override the measurement value in use by selecting Override instead of Live
	When Override is selected, you enter the desired value for the frequency to be used in the Sense Rotor Value (Hz) field.

When Live is selected, the Value will be driven by the sense rotor high speed counter input value.

Note: The action of changing from Live to Override or Override to Live is entered in the Audit trail. When in Override, any changes made to the Value are entered in the Audit Trail.

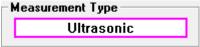
Note: This override is done at the Run Measurement level, not at the I/O level. Because of this, care needs to be taken when overriding runs configured for bi-directional measurement, because the logic overriding the measurement values occurs after the logic for routing the measurement inputs to the proper run. Additionally, any input alarms and conditioning are not performed when Override is active.

Main Rotor Value (Hz)	In Override mode, you can enter a value to use instead of the actual value from the main rotor.
Sense Rotor Value (Hz)	In Override mode, you can enter a value to use instead of the actual value from the sense rotor.
Status 1	The Auto-Adjust function block status code. See the ControlWave Designer online help for the Auto Adjust function block's odiStatus parameter for an explanation of these codes.
Status 2, 3, & 4	The Auto-Adjust function block's abnormal, alarm, and system status codes. See the ControlWave Designer online help for the Auto Adjust function block's odiStatus2 , odiStatus3 , odiStatus4 parameters for an explanation of these codes.
ACF/s (DeltaVa)	The ACF/s (DeltaVa) reading is displayed here.
Deviation (Delta Abar)	The Deviation (Delta ABar) reading is displayed here.
Corrected Flow Rate, Energy Rate, Uncorrected Flow Rate	The current corrected flow, energy rate, and uncorrected flow rate are displayed on this screen. The units of flow and energy rates are set from the Run Configuration page.
Min / Max Rates for this Run	The minimum and maximum flow rates for an auto-adjust meter run are calculated as follows:
	Minimum Flow Rate = max frequency * AGA7 Factor * (Min /100)
	Maximum Flow Rate = max frequency * AGA7 Factor * (Max/100)
	Where: Min defaults to 5 Max defaults to 90
	Minimum Flow Rate Hz = The percent of maximum frequency to use for the Minimum Flow calculation.

Maximum Flow Rate Hz = The percent of maximum frequency to use for the Maximum Flow calculation.

3.2.16 Ultrasonic Tab (Run Configuration)

To configure a run as an ultrasonic meter, click on the Measurement Type in the General tab and select **Ultrasonic** from the drop down menu.



Click the Ultrasonic tab or right click on the run icon and choose **Meter Types > Ultrasonic** from the pop-up menus, and the following screen opens:

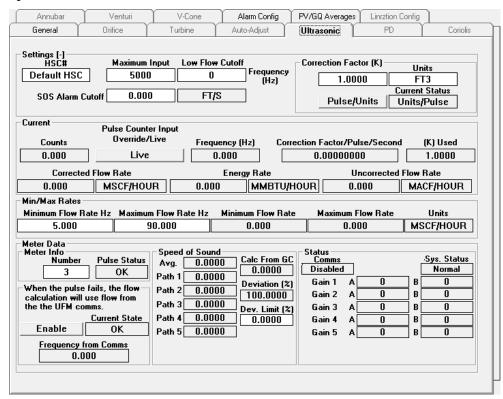


Figure 3-76. Ultrasonic tab

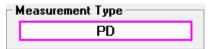
Field	Description
<u>Settings</u>	
HSC#	The source for the Counter input comes from a High Speed Counter Input via the I/O cards. The user may select from the Default HSC (this would be the "Run X AGA7 Hz" selection from the I/O configuration page), or from a Shared Hz input.
Maximum Input	The maximum input is used to calculate the minimum and maximum flow rates through the meter run.

Low Flow Cutoff	The low flow cutoff is the minimum frequency that will still be considered valid for flow measurement. If the frequency of the inputs from the high speed counter fall below this number, volume will not be measured.
Correction Factor (K)	The correction factor represents either the volume (in Cubic Feet) per pulse, or the number of pulses per volume (in Cubic Feet). The choice is reflected in the Current Status field.
	The K factor value is entered in the box, while the K factor units are selected by using the push button. This information is available from the UFM meter data plate.
SOS Alarm Cutoff	If the velocity for the run in feet per second is below this setting, this prevents the SOS (Speed-of-Sound) alarm from turning on.
Current	
Counts	The "Counts" value represents the event (pulse) total during the most recent execution cycle coming from the High Speed Counter Input.
Pulse Counter Input Override / Live	The user may override the measurement values in use by selecting Override instead of Live
LIVO	When Live is selected, the Value will be driven by the appropriate high speed counter input value.
	Note: the action of changing from Live to Override or Override to Live is entered in the Audit trail. When in Override, any changes made to the Value are entered in the Audit Trail.
	Note: This override is done at the Run Measurement level, not at the I/O level. Because of this, care needs to be taken when overriding runs configured for bi-directional measurement, because the logic overriding the measurement values occurs after the logic for routing the measurement inputs to the proper run. Additionally, any input alarms and conditioning are not performed when Override is active.
Frequency (Hz)	When Override is selected, the user may enter the desired value for the frequency to be used.
Correction Factor / Pulse/ Second	This is the correction factor calculated by the AGA 7 equation.
	This correction factor multiplied by the frequency will provide the corrected flow rate.
(K) Used	The AGA 7 calculation requires the K factor to be input in units of Cubic Feet/Pulse. The (K) Used value always represents the K factor in the units of Cubic Feet/Pulse.
Corrected Flow Rate, Energy Rate, Uncorrected Flow	The current corrected flow, energy rate, and uncorrected flow rate are displayed on this screen. The units of flow and energy rates are set from the Run Configuration page.

Rate	
Min / Max Rates for this Run	The minimum and maximum flow rates for a turbine meter run are calculated as follows:
	Minimum Flow Rate = max frequency * AGA7 Factor * (Min /100)
	Maximum Flow Rate = max frequency * AGA7 Factor * (Max/100)
	Where: Min defaults to 5 Max defaults to 90
	Minimum Flow Rate Hz = The percent of maximum frequency to use for the Minimum Flow calculation.
	Maximum Flow Rate Hz = The percent of maximum frequency to use for the Maximum Flow calculation.
Meter Data	If a MODBUS interface to the ultrasonic meter has been configured from the I/O Configuration section, the data collected from the ultrasonic meter is displayed here.
Meter Info	
Meter Number	To select the ultrasonic meter that data is being collected from, click on the Meter Number box, and enter the appropriate meter number.
Pulse Status	This field shows "OK" if pulses from the UFM are read from the UFM.
When the pulse fails, the flow calculation will use flow from the UFM comms	Click the push button to enable/disable this function. Current State shows whether or not this function is enabled.
Frequency From Comms	Shows the current input frequency being read from communications with the UFM.
Speed of Sound	The Speed of Sound (SOS) readings from each path of the ultrasonic meter are displayed, and the average is calculated. At the same time, the Multi-Run Multi-Station controller calculates the Speed of Sound per the AGA 10 equations. The calculated value is compared to the average value from the ultrasonic meter, and if the deviation is greater than the deviation limit, an alarm will be generated. This alarm will be entered into the Audit Trail, and will be available via both the BSAP Slave communications and MODBUS communications interfaces.
Status	Diagnostics information relating to communications with the ultrasonic meter, the gain on each path, and the overall status of the ultrasonic meter is collected and displayed here.

3.2.17 PD Tab (Run Configuration)

Positive displacement (PD) meters are used for measuring very low flow rates. To configure a run as a positive displacement (PD) meter, click on the Measurement Type in the General tab and select **PD** from the drop down menu.



Click the PD tab or right click on the run icon and choose **Meter Types > PD** from the pop-up menus, and the following screen opens:

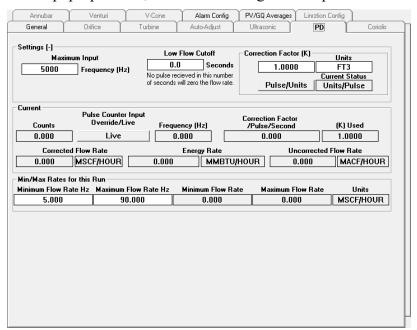


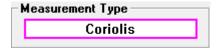
Figure 3-77. PD tab

Field	Description
<u>Settings</u>	
Maximum Input	The maximum input is used to calculate the minimum and maximum flow rates through the meter run.
Low Flow Cutoff	A positive displacement meter typically has very low frequency counts. A valid frequency may be well below 1 Hz, that is, it can be several seconds between pulses. It is not unusual to see 30 seconds or more between pulses from a PD meter, during normal flowing conditions. Therefore, the low flow cutoff for a PD meter is the maximum amount of time allowed between two consecutive pulses before the flow rate is zeroed. However, all pulses received by the Station Manager controller from a PD meter are included in volume totalization for the meter run.

Correction Factor (K)	The correction factor represents either the volume (in Cubic Feet) per pulse, or the number of pulses per volume (in Cubic Feet). The choice is reflected in the Current Status field. The K factor value is entered in the box, while the K factor units are selected by using the push button. This information is available from the PD meter data plate.
Current	
Counts	This shows the number of pulses received at the high speed counter input.
Pulse Counter Input Override / Live	The user may override the measurement values in use by selecting Override instead of Live. When Override is selected, the user may enter the desired value for the frequency to be used. When Live is selected, the Value will be driven by the appropriate high speed counter input value.
	Note: The action of changing from Live to Override or Override to Live is entered in the Audit trail. When in Override, any changes made to the Value are entered in the Audit Trail.
	Note: This override is done at the Run Measurement level, not at the I/O level. Because of this, care needs to be taken when overriding runs configured for bi-directional measurement, because the logic overriding the measurement values occurs after the logic for routing the measurement inputs to the proper run. Additionally, any input alarms and conditioning are not performed when Override is active.
Frequency (Hz)	This is the derived frequency. Because a positive displacement meter can have very low frequency pulses (< 1 Hz), this number can be a fraction less than 1.0.
Correction Factor / Pulse/ Second	This is the correction factor calculated by the AGA 7 equation. This correction factor multiplied by the frequency will provide the corrected flow rate.
(K) Used	The AGA 7 calculation requires the K factor to be input in units of Cubic Feet/Pulse. The (K) Used value always represents the K factor in the units of Cubic Feet/Pulse.
Corrected Flow Rate, Energy Rate, Uncorrected Flow Rate	The current corrected flow, energy rate, and uncorrected flow rate are displayed on this screen. The units of flow and energy rates are set from the Run Configuration page.
Min / Max Rates for this Run	The minimum and maximum flow rates for a PD meter run are calculated as shown below:
	Minimum Flow Rate = max freq * (Min /100) * AGA7 Factor Maximum Flow Rate = max freq* (Max /100) * AGA7 Factor
	Where: Min defaults to 5 Max defaults to 90
	Minimum Flow Rate Hz = The percent of maximum frequency to use for the Minimum Flow calculation.
	Maximum Flow Rate Hz = The percent of maximum frequency to use for the Maximum Flow calculation.

3.2.18 Coriolis Tab (Run Configuration)

To configure a run as a Coriolis meter, click on the Measurement Type in the General tab and select **Coriolis** from the drop down menu.



Click the Coriolis tab or right click on the run icon and choose **Meter Types > PD** from the pop-up menus, and the following screen opens:

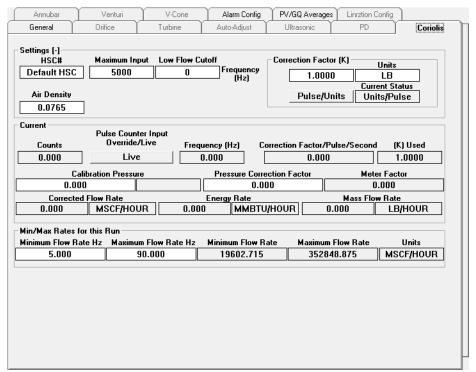


Figure 3-78. Coriolis tab

Field	Description
<u>Settings</u>	
HSC#	The source for the Counter input comes from a High Speed Counter Input via the I/O cards. (This would be the "Run X AGA7 Hz" selection from the I/O configuration page.)
Maximum Input	The maximum input is used to calculate the minimum and maximum flow rates through the meter run.
Low Flow Cutoff	The low flow cutoff is the minimum frequency that will still be considered valid for flow measurement. If the frequency of the inputs from the high speed counter fall below this number, volume will not be measured.

Correction Factor (K)	The correction factor represents either the volume (in Cubic Feet) per pulse, or the number of pulses per volume (in Cubic Feet). The choice is reflected in the Current Status field. The K factor value is entered in the box, while the K factor units are selected by using the push button. This information is available from the Coriolis meter data plate.
Current	
Air Density	The density of air constant.
Counts	The "Counts" value represents the event (pulse) total during the most recent execution cycle coming from the High Speed Counter Input.
Pulse Counter Input Override / Live	The user may override the measurement values in use by selecting Override instead of Live
	When Live is selected, the Value will be driven by the appropriate high speed counter input value.
	Note: the action of changing from Live to Override or Override to Live is entered in the Audit trail. When in Override, any changes made to the Value are entered in the Audit Trail.
	Note: This override is done at the Run Measurement level, not at the I/O level. Because of this, care needs to be taken when overriding runs configured for bi-directional measurement, because the logic overriding the measurement values occurs after the logic for routing the measurement inputs to the proper run. Additionally, any input alarms and conditioning are not performed when Override is active.
Frequency (Hz)	When Override is selected, the user may enter the desired value for the frequency to be used.
(K) Used	The Coriolis calculation requires the K factor to be input in units of Cubic Feet/Pulse. The (K) Used value always represents the K factor in the units of Cubic Feet/Pulse.
Calibration Pressure	Shows the pressure at which the Coriolis meter was calibrated.
Pressure Correction Factor	Specify the pressure correction factor specified by the manufacturer of the coriolis meter.
Meter Factor	Shows the meter factor specified by the manufacturer of the coriolis meter.
Corrected Flow Rate, Energy Rate, Mass Flow Rate	The current corrected flow, energy rate, and mass flow rate are displayed on this screen. The units of flow and energy rates are set from the General page.
-	

Min / Max Rates for this Run

The minimum and maximum flow rates for a Coriolis meter run are calculated as shown below:

Minimum Flow Rate = max freq * (Min /100) * Coriolis Factor

Maximum Flow Rate = max freq* (Max /100) * Coriolis
Factor

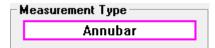
Where: Min defaults to 5 Max defaults to 90

Minimum Flow Rate Hz = The percent of maximum frequency to use for the Minimum Flow calculation.

Maximum Flow Rate Hz = The percent of maximum frequency to use for the Maximum Flow calculation.

3.2.19 Annubar Tab (Run Configuration)

Annubar meters lower a probe to measure the gas flow. To configure a run as a Annubar meter, click on the Measurement Type in the General tab and select **Annubar** from the drop down menu.



Click the Annubar tab or right click on the run icon and choose **Meter Types > Annubar** from the pop-up menus, and the following screen opens:

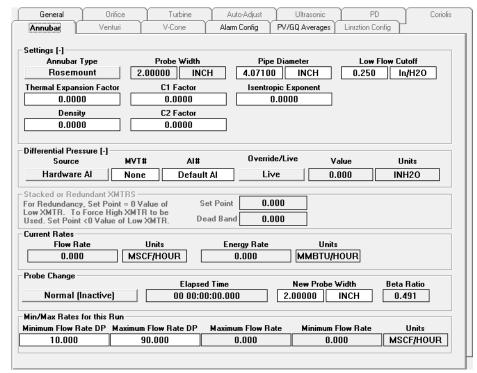


Figure 3-79. Annubar tab

Field	Description
<u>Settings</u>	
Annubar Type	Either Rosemount or Verabar.
Probe Width	Width of the annubar probe.
Pipe Diameter	The diameter of the pipe. The pipe diameter change may be made by clicking on the box with the pipe diameter value in it and entering the desired pipe diameter value. When the new value of the pipe diameter is entered, a new beta ratio will be calculated and displayed in the "Plate Change" section.

Low Flow Cutoff	The low flow cutoff is the minimum value for differential pressure where measurement will be performed. If the differential pressure drops below this value, the measured flow will go to zero. The user may change the low flow cutoff value by clicking on the box with the low flow cutoff value and entering a new value, and clicking OK. The user may change the units that the low flow cutoff value is measured, by clicking on the units box, and selecting the desired units from the drop down menu.
Thermal Expansion Factor	The annubar thermal expansion factor.
C1 Factor	The annubar constant.
Density	The density of gas to use for the mass flow equation.
C2 Factor	The annubar constant.
Isentropic Exponent	The isentropic exponent of the natural gas being measured.
Differential Pressure	
Source	The source for the Differential Pressure measurement may come from either Analog Inputs via the I/O cards (Hardware AI) or via serial communications to the Multi-Variable Transmitters (MVT). The selection of the source is made via the Hardware
	Al/MVT button on the screen:
MVT#	If MVT is chosen, the user may select from any of 12 MVTs. In the Station Manager 6-run version, you can also choose from 18 HART and 18 WiHART transmitters.
AI#	If Hardware AI is chosen, the user may select from the Analog Input (AI) to be used from a drop down menu.
	The user may select from the Default AI (this would be the "Run X Differential Pressure" selection from the I/O configuration page), or from a Shared Transmitter ("Shared DP X" from the I/O configuration page) or a pair of Stacked transmitters ("Stacked DP X Lo/Hi" from the I/O configuration page).
	If the Default AI or Shared transmitters are chosen, the measurement source configuration is completed. If Stacked transmitters are chosen, see the "Stacked or Redundant XMTRS" section.

Override / Live

The user may override the measurement values in use by selecting Override instead of Live

When Override is selected, the user may enter the desired value for the measurement to be used.

When Live is selected, the Value will be driven by the appropriate input value.

Note: the action of changing from Live to Override or Override to Live is entered in the Audit trail. When in Override, any changes made to the Value are entered in the Audit Trail.

Note: This override is done at the Run Measurement level, not at the I/O level. Because of this, care needs to be taken when overriding runs configured for bi-directional measurement, because the logic overriding the measurement values occurs after the logic for routing the measurement inputs to the proper run. Additionally, any input alarms and conditioning are not performed when Override is active.

Value

The differential pressure value in use is shown here.

When "Live" is selected via the "Override/Live" button, this value is the value coming from the Differential Pressure Source.

When "Override" is selected via the "Override/Live" button, this value may be entered by the user, and the entered value will be used in the measurement calculation.

Units

The units for the measurement inputs come from the input source.

Stacked or Redundant XMTRs

If stacked transmitters are chosen, the user must configure the transmitters as Stacked or Redundant transmitters.

Stacked Transmitters operate such that one transmitter measures at a low range of measurement, and a second transmitter measures at a higher range.

Redundant transmitters operate such that one transmitter is used for measurement all of the time, and the second transmitter is available in case the first transmitter fails.

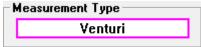
Set Point

When using Stacked Transmitters, the user must enter a set point where the measurement will transition from the low range transmitter to the high range transmitter.

	To configure the stacked transmitters to be used as redundant transmitters, the user must set the Set Point to 0.0. This will set the Stacked DP X Lo to be the primary transmitter, and the Stacked DP X Hi transmitter will only be used if the Lo transmitter indicates a failure.
	To force the Hi transmitter to be used, the user must set the Set Point to a value less than 0.0.
Dead Band	A deadband may be entered, that will prevent the measurement from switching back and forth between the high and low transmitters.
Current Rate	The current flow and energy rates are displayed on this screen. The units of flow and energy rates are set from the Run Configuration page.
Plate Change	To change the probe diameter, the user must change the plate. Change mode from Normal (Inactive) to Plate Change (Active)
	While the Plate Change mode is Active, the Differential Pressure, Static Pressure and Temperature values are frozen.
Elapsed Time	While the Plate Change mode is Active, the elapsed time is displayed.
New Probe Width	The new probe width and associated units may be entered here.
	The probe width in use does not change until the plate change mode changes from "Plate Change (Active)" to "Normal (Inactive)".
	The probe width in use appears in the Settings section
Beta Ratio	The beta ratio is the probe width divided by the pipe diameter.
	The beta ratio is displayed on this screen. If the beta ratio is out of range, it will appear in red text. The low limit for the beta ratio is 0.15 and the high limit for the beta ratio is 0.60.
Min / Max Rates for this Run	The minimum and maximum flow rates for an Annubar run are calculated outputs of the annubar flow equation.
	The DP minimum is calculated using the Minimum Flow Rate DP setting and the DP maximum is calculated using the Maximum Flow Rate DP setting.
	Minimum Flow Rate DP setting= The DP in inches to use for the Minimum Flow calculation.
	Maximum Flow Rate DP setting = The percent of DP span to use for the Maximum Flow calculation.

3.2.20 Venturi (Run Configuration)

Venturi meters force the gas into a narrow tube for measurement. To configure a run as a Venturi-type meter, click on the Measurement Type in the General tab and select **Venturi** from the drop down menu.



Click the Venturi tab, or right click on the run icon and choose **Meter Types > Venturi** from the pop-up menus and the following screen opens:

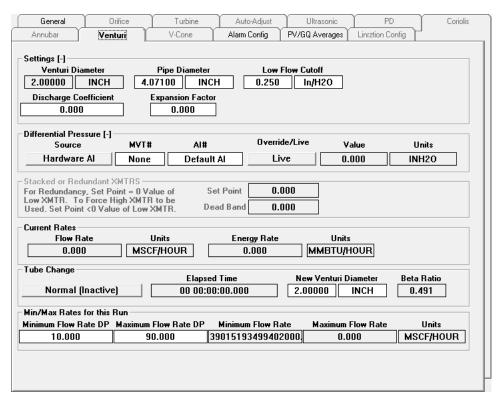


Figure 3-80. Venturi tab

Field	Description
<u>Settings</u>	
Venturi Diameter	The diameter of the venture meter.
Pipe Diameter	The pipe diameter change may be made by clicking on the box with the pipe diameter value in it and entering the desired pipe diameter value. When the new value of the pipe diameter is entered, a new beta ratio will be calculated and displayed in the "Plate Change" section.
Low Flow Cutoff	The low flow cutoff is the minimum value for differential pressure where measurement will be performed. If the differential pressure drops below this value, the measured flow will go to zero.

	The user may change the low flow cutoff value by clicking on the box with the low flow cutoff value and entering a new value, and clicking OK.
	The user may change the units that the low flow cutoff value is measured, by clicking on the units box, and selecting the desired units from the drop down menu.
Discharge Coefficient	The discharge coefficient of the Venturi meter.
Expansion Factor	The thermal expansion factor of the Venturi meter.
Differential Pressure	
Source	The source for the Differential Pressure measurement may come from either Analog Inputs via the I/O cards (Hardware AI) or via serial communications to the Multi-Variable Transmitters (MVT).
	The selection of the source is made via the Hardware AI/MVT button on the screen:
MVT#	If MVT is chosen, the user may select from any of 12 MVTs. In the Station Manager 6-run version, you can also choose from 18 HART and 18 WiHART transmitters.
Al#	If Hardware AI is chosen, the user may select from the Analog Input (AI) to be used from a drop down menu.
	The user may select from the Default AI (this would be the "Run X Differential Pressure" selection from the I/O configuration page), or from a Shared Transmitter ("Shared DP X" from the I/O configuration page) or a pair of Stacked transmitters ("Stacked DP X Lo/Hi" from the I/O configuration page).
	If the Default AI or Shared transmitters are chosen, the measurement source configuration is completed. If Stacked transmitters are chosen, see the "Stacked or Redundant XMTRS" section.
Override / Live	The user may override the measurement values in use by selecting Override instead of Live
	When Override is selected, the user may enter the desired value for the measurement to be used. When Live is selected, the Value will be driven by the

Note: the action of changing from Live to Override or Override to Live is entered in the Audit trail. When in Override, any changes made to the Value are entered in the Audit Trail.

Note: This override is done at the Run Measurement level, not at the I/O level. Because of this, care needs to be taken when overriding runs configured for bi-directional measurement, because the logic overriding the measurement values occurs after the logic for routing the measurement inputs to the proper run. Additionally, any input alarms and conditioning are not performed when Override is active.

Value

The differential pressure value in use is shown here.

When "Live" is selected via the "Override/Live" button, this value is the value coming from the Differential Pressure Source.

When "Override" is selected via the "Override/Live" button, this value may be entered by the user, and the entered value will be used in the measurement calculation.

Units

The units for the measurement inputs come from the input source.

Stacked or Redundant XMTRs

If stacked transmitters are chosen, the user must configure the transmitters as Stacked or Redundant transmitters.

Stacked Transmitters operate such that one transmitter measures at a low range of measurement, and a second transmitter measures at a higher range.

Redundant transmitters operate such that one transmitter is used for measurement all of the time, and the second transmitter is available in case the first transmitter fails.

Set Point

When using Stacked Transmitters, the user must enter a set point where the measurement will transition from the low range transmitter to the high range transmitter.

To configure the stacked transmitters to be used as redundant transmitters, the user must set the Set Point to 0.0. This will set the Stacked DP X Lo to be the primary transmitter, and the Stacked DP X Hi transmitter will only be used if the Lo transmitter indicates a failure.

To force the Hi transmitter to be used, the user must set the Set Point to a value less than 0.0.

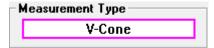
Dead Band

A deadband may be entered, that will prevent the measurement from switching back and forth between the high and low transmitters.

Current Rate	The current flow and energy rates are displayed on this screen. The units of flow and energy rates are set from the Run Configuration page.
Tube Change	To change the venturi diameter, the user must change the Tube Change mode from Normal (Inactive) to Plate Change (Active)
	While the Tube Change mode is Active, the Differential Pressure, Static Pressure and Temperature values are frozen.
Elapsed Time	While the Plate Change mode is Active, the elapsed time is displayed.
New Venturi Diameter	The new Venturi diameter and Venturi diameter units may be entered here.
	The Venturi diameter in use does not change until the plate change mode changes from "Plate Change (Active)" to "Normal (Inactive)".
	The Venturi Diameter in use appears in the Settings section
Beta Ratio	The beta ratio is the Venturi diameter divided by the pipe diameter.
	The beta ratio is displayed on this screen. If the beta ratio is out of range, it will appear in red text. The low limit for the beta ratio is 0.15 and the high limit for the beta ratio is 0.60.
Min / Max Rates for this Run	The minimum and maximum flow rates for a Venturi run are calculated outputs of the Venturi flow equation.
	The DP minimum is calculated using the Minimum Flow Rate DP setting and the DP maximum is calculated using the Maximum Flow Rate DP setting.
	Minimum Flow Rate DP setting= The DP in inches to use for the Minimum Flow calculation.
	Maximum Flow Rate DP setting = The percent of DP span to use for the Maximum Flow calculation.

3.2.21 V-Cone tab (Run Configuration)

To configure a run as a V-Cone-type meter, click on the Measurement Type in the General tab and select **V-Cone** from the drop down menu.



Click the V-Cone tab, or right click on the run icon and choose **Meter Types** > V-Cone from the pop-up menus and the following screen opens:

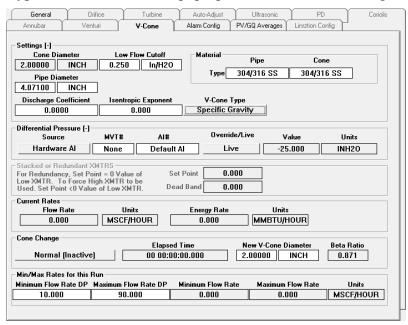


Figure 3-81. V-Cone tab

Field	Description
<u>Settings</u>	
Cone Diameter	The diameter of the cone meter.
Pipe Diameter	The pipe diameter change may be made by clicking on the box with the pipe diameter value in it and entering the desired pipe diameter value. When the new value of the pipe diameter is entered, a new beta ratio will be calculated and displayed in the "Plate Change" section.
Low Flow Cutoff	The low flow cutoff is the minimum value for differential pressure where measurement will be performed. If the differential pressure drops below this value, the measured flow will go to zero. The user may change the low flow cutoff value by clicking on the box with the low flow cutoff value and entering a
	new value, and clicking OK.

The user may change the units that the low flow cutoff value is measured, by clicking on the units box, and selecting the desired units from the drop down menu. The discharge coefficient of the V-Cone meter. The thermal expansion factor of the V-Cone meter. Specify the pipe material.
The thermal expansion factor of the V-Cone meter.
Specify the pipe material.
Specify the pipe material.
Specify the cone material.
This button shows the type of V Cone calculation; click the button to toggle to the other type.
The two V Cone calculation types choices are:
Specific Gravity – The calculation uses the specific gravity from the GC data set assigned to this run.
Molecular Weight – The calculation uses the summed molecular weight of the GC components from the GC data set assigned to this run.
The source for the Differential Pressure measurement may come from either Analog Inputs via the I/O cards (Hardware AI) or via serial communications to the Multi-Variable Transmitters (MVT).
The selection of the source is made via the Hardware AI/MVT button on the screen:
If MVT is chosen, the user may select from any of 12 MVTs. In the Station Manager 6-run version, you can also choose from 18 HART and 18 WiHART transmitters.
If Hardware AI is chosen, the user may select from the Analog Input (AI) to be used from a drop down menu.
The user may select from the Default AI (this would be the "Run X Differential Pressure" selection from the I/O configuration page), or from a Shared Transmitter ("Shared DP X" from the I/O configuration page) or a pair of Stacked transmitters ("Stacked DP X Lo/Hi" from the I/O configuration page).
If the Default AI or Shared transmitters are chosen, the measurement source configuration is completed. If Stacked transmitters are chosen, see the "Stacked or Redundant XMTRS" section.

Override / Live

The user may override the measurement values in use by selecting Override instead of Live

When Override is selected, the user may enter the desired value for the measurement to be used.

When Live is selected, the Value will be driven by the appropriate input value.

Note: the action of changing from Live to Override or Override to Live is entered in the Audit trail. When in Override, any changes made to the Value are entered in the Audit Trail.

Note: This override is done at the Run Measurement level, not at the I/O level. Because of this, care needs to be taken when overriding runs configured for bi-directional measurement, because the logic overriding the measurement values occurs after the logic for routing the measurement inputs to the proper run. Additionally, any input alarms and conditioning are not performed when Override is active.

Value

The differential pressure value in use is shown here.

When "Live" is selected via the "Override/Live" button, this value is the value coming from the Differential Pressure Source.

When "Override" is selected via the "Override/Live" button, this value may be entered by the user, and the entered value will be used in the measurement calculation.

Units

The units for the measurement inputs come from the input source.

Stacked or Redundant XMTRs

If stacked transmitters are chosen, the user must configure the transmitters as Stacked or Redundant transmitters.

Stacked Transmitters operate such that one transmitter measures at a low range of measurement, and a second transmitter measures at a higher range.

Redundant transmitters operate such that one transmitter is used for measurement all of the time, and the second transmitter is available in case the first transmitter fails.

Set Point

When using Stacked Transmitters, the user must enter a set point where the measurement will transition from the low range transmitter to the high range transmitter.

To configure the stacked transmitters to be used as redundant transmitters, the user must set the Set Point to 0.0. This will set the Stacked DP X Lo to be the primary transmitter, and the Stacked DP X Hi transmitter will only be used if the Lo transmitter indicates a failure.

	To force the Hi transmitter to be used, the user must set the Set Point to a value less than 0.0.
Dead Band	A deadband may be entered, that will prevent the measurement from switching back and forth between the high and low transmitters.
Current Rate	The current flow and energy rates are displayed on this screen. The units of flow and energy rates are set from the Run Configuration page.
Cone Change	To change the V-Cone diameter, the user must change the Plate Change mode from Normal (Inactive) to Plate Change (Active)
	While the Plate Change mode is Active, the Differential Pressure, Static Pressure and Temperature values are frozen.
Elapsed Time	While the Plate Change mode is Active, the elapsed time is displayed.
New V-Cone Diameter	The new V-Cone diameter and Cone diameter units may be entered here.
	The V-Cone diameter in use does not change until the plate change mode changes from "Plate Change (Active)" to "Normal (Inactive)".
	The V-Cone Diameter in use appears in the Settings section
Beta Ratio	The beta ratio is the Venturi diameter divided by the pipe diameter.
	The beta ratio is displayed on this screen. If the beta ratio is out of range, it will appear in red text. The low limit for the beta ratio is 0.15 and the high limit for the beta ratio is 0.60.
Min/Max Rates for this Run	The minimum and maximum flow rates for a V-Cone run are calculated outputs of the V-Cone flow equation.
	The DP minimum is calculated using the Minimum Flow Rate DP setting and the DP maximum is calculated using the Maximum Flow Rate DP setting.
	Minimum Flow Rate DP setting= The DP in inches to use for the Minimum Flow calculation.
	Maximum Flow Rate DP setting = The percent of DP span to use for the Maximum Flow calculation.

3.2.22 Control Valve Config

Either left-click on a valve icon, or right-click on the icon and choose **Configuration** from the pop-up menu to define some basic characteristics of the valve.

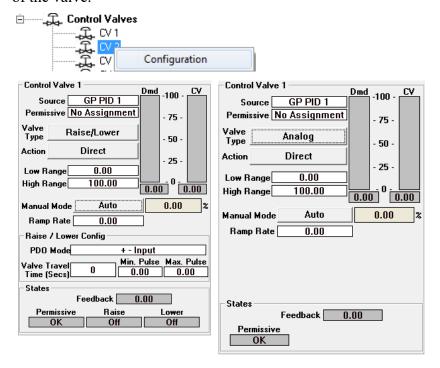


Figure 3-82. Quick Valve Config – Raise Lower (left) or Analog (right)

Field	Description
Control Valve n	Station Manager supports up to 18 control valves.
Source	Any one of the six stations or a general purpose (GP) PID loop can control a valve. Select the source from the drop-down menu, then press the [Enter] key to save your selection.
Permissive	Normally, you should leave this at No Assignment which means that Station Manager can operate the valve at any time. Alternatively, you can specify a run number here; if you do, Station Manager can only operate the valve when the block valve for this run is OPEN .
Valve Type	Click this button to select the type of mechanism used to control the valve.
	If you choose Raise/Lower the system sends pulses to open or close the valve based on the demand to and feedback coming from the valve.
	If you choose Analog the system sends an analog signal to open or close the valve based on the demand.

Action	Click this button to affects the valve.	o select how a percentage change
	If you choose Dire	ect, then a zero calls for 0% request
	to be sent to the v	
	ir indirect , then a	zero calls for 100% at the valve.
Low Range	The minimum out range the valve.	put for the valve. Used to limit or split
	range the valve.	
High Range	The maximum ou split range the val	tput for the valve. Used to limit or
	split range the val	ve.
Manual Mode	Click this button to mode for valve op	o choose between Auto and Manual peration.
	•	you specify the desired percent
	demand value for mode is bumpless	the valve. Transfer into Manual
	•	e Station Manager application
		esired percent demand value for the
		to Auto mode immediately drives the
	valve to the desire Station Manager.	ed position as calculated by the
	Station Manager.	
%		ne desired percentage of the valve. In
		u can set the percentage by entering
		le [Enter] key to save your entry. In this field is read-only and displays the
	requested percen	
Ramp Rate	Enter the maximu	ım allowable percentage change per
	second for the val	lve based on the demand.
Dmd		d the field below it show the
	requested deman	d from the PID loop.
CV		d the field below it show the current
	reported demand	percentage for the valve.
Raise/Lower Config		
PDO Mode		olies if the Valve Type is
		e the drop-down menu to select the
		the valve provides regarding its sthe [Enter] key to save your
	selection. Choices	
	Selection	Meaning
	+ - Input	The valve operates in Pulse
		Duration Mode in which the
		output value is converted into a pulse duration length.
	Limit SW	The valve transmits when its
		position is fully opened or fully
		closed, but not during any other
	No Feedback	portion of the range of travel.
	NO Feedback	
	No Feedback	The valve provides no information on its position.

	Analog Feedback The valve transmits its current position throughout the entire
	range of travel.
Valve Travel Time (Secs)	This field only applies if the Valve Type is Raise/Lower. Enter the amount of time (in seconds) it takes for the valve to travel from fully closed to fully open. Press the [Enter] key to save your entry. Note: This is a critical value for the Station Manager in calculating how often to send pulses to the valve, especially in configurations when
	there is no feedback from the valve.
Min. Pulse	This field only applies if the Valve Type is Raise/Lower . All valves have a latency period for responding to a signal and cannot respond to pulses shorter than some duration. Enter the minimum pulse length (in seconds) required to move the valve. Press the [Enter] key to save your entry.
Max. Pulse	This field only applies if the Valve Type is Raise/Lower . Enter the maximum allowable pulse duration. Typically you would set this equal to the Valve Travel Time setting. Press the [Enter] key to save your entry.
States	
Feedback	This read-only field shows the most recent feedback from the valve on its position (%).
Permissive	This read-only field shows OK if this valve can operate or Blocked if valve operation is prevented by a block valve setting.
Raise	This read-only field shows Raise if Station Manager is asserting this output command.
Lower	This read-only field shows Lower if Station Manager is asserting this output command.

3.2.23 Process Values

The purpose of Maintenance Mode is to prevent maintenance activities (calibration, verification) from adversely affecting the running process. When enabled, Maintenance Mode locks process values so that these maintenance activities do not affect the running process.

To view process values for the site, right-click on the icon for the site, and choose **Maintenance Mode** > **PVs** from the pop-up menu:

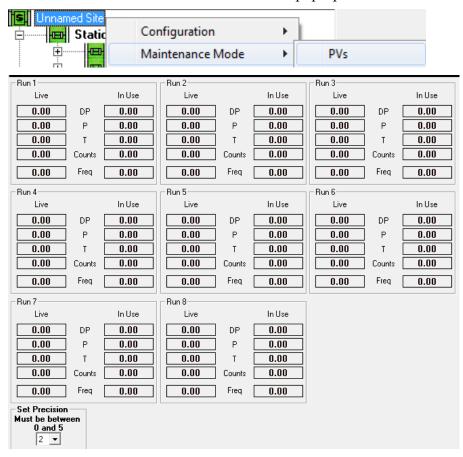


Figure 3-83. Process Values (Station Manager 8-Run screen shown)

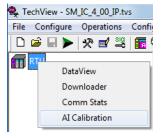
The Live values for a run always show the live value coming into the Station Manager controller (either through an analog input, or a multivariable transmitter (MVT).

The In Use values are the values currently in use for measurement. You can set the precision (number of digits displayed after the decimal point) from 0 to 5.

3.2.24 Al Calibration

Calibration procedures including the order and type of steps involved vary from organization to organization. Based on the type of process variable you want to calibrate, Station Manager allows you to specify what operation you want to perform in a given calibration step.

To begin the configuration process for calibrating an analog input (AI), right-click on the RTU icon in TechView, and choose **AI Calibration** from the menu.



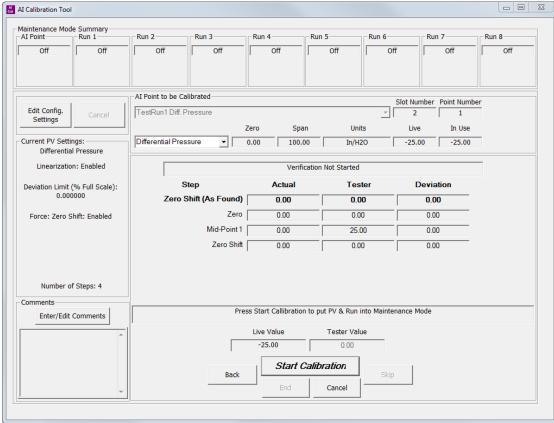


Figure 3-84. AI Calibration

View/Modify the Calibration Procedure for a Type of Input To view/modify the calibration procedure click **Edit Config Settings**. This displays the **Edit PV Settings** section as well as reset timer selection boxes in the **Maintenance** Summary section for the AI and each meter run. Make changes in these sections as needed, then click **Save Settings & Exit** to save the changes (alternatively, click **Cancel**

AI Calibration Tool Enter all time in the following format: HH:MM:SS Maintenance Mode Summary
AI Point Run 1 Run 3 Run 2 Run 7 Run 8 -Run 4-Auto Reset Time | Auto Reset Time Auto Reset Time Auto Reset Time Auto Reset Time 02:00:00 02:00:00 02:00:00 02:00:00 02:00:00 02:00:00 02:00:00 02:00:00 02:00:00 Auto Reset V Manual Edit PV Settings Step 1 Save Settings & Exit Cancel Deviation Limit (% Full Scale) Step 2 Step 3 Force: Zero Shift Step 4 ☐ Force: Adjust Live Value Entry Order Lock Live Value Then Enter Tester Value Step 6 ☐ Disable Station Control Manual Mode Warning C:\ProgramData\Bristol\StationManager\Logs ${\overline{\mbox{\sc V}}}$ Q-Bit Value for AI Point During Calibration and Verification

to discard the changes). Once you save the settings you can start the actual calibration using those new settings.

Figure 3-85. – AI Calibration – Configuration Settings

Field	Descri	ption
Maintenance Mode Summary	runs are	ction shows whether the AI and one or more meter e in Maintenance Mode. Maintenance Mode locks s values so that calibration and verification activities do ect the running process.
Al Point/Run <i>x</i>	Mainter	whether the AI point or meter run are currently in nance Mode. Shows "On" if they are in Maintenance or "Off" if they are not.
Auto Reset Time	When Auto Reset is set ON, the Maintenance Mode Auto Reset Timer specifies how long an AI or meter run remains in maintenance mode before automatically disabling maintenance mode and returning to normal operation. The reset time is in the format DD HH:MM:SS.S	
	Where:	
	DD HH MM SS.S	number of days number of hours number of minutes number of seconds (resolution of 10ths)
	The ma	aximum time allowed for the maintenance mode auto mer is:

24 20:31:23.9 – (24 Days, 20 hours, 31 minutes, 23.9 seconds)

Auto Reset / Manual

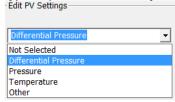
This field enables/disables Auto Reset.

To enable Auto Reset, select **Auto Reset**. Maintenance mode for the Al input or meter run will be disabled automatically after the specified time expires.

To disable Auto Reset, select **Manual**. This means maintenance mode for the Al input or meter run will not be disabled automatically.

Edit PV Settings

This section lets you specify which calibration commands should execute in a particular calibration step, and also lets you set other calibration parameters. To begin, specify the type of process variable you want to calibrate first.



Deviation Limit (% Full Scale)

Specify the deviation limit (as percent of full scale) which is allowed. This represents maximum allowed difference between the actual value read from the analog input, and the known tester value you apply.

Linearization

Check this box if you want to activate the linearization function during the calibration.

Force: Zero Shift

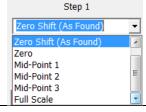
Check this box if you want to apply a zero shift. Zero shift is a value added or subtracted to the zero value to shift the live value. This is only allowed for the "Differential Pressure" or "Other" type.

Force: Adjust Live Value

You must check the Force Adjust Live Value box in order to use the adjust live value command. The adjust live value command is only allowed in Step 1 of the calibration procedure. Only allowed for the "Temperature" or "Other" type.

Step 1, Step 2, Step 3, Step 4, Step 5, Step 6,

Use the selection box to choose the calibration command you want to execute at a particular step.

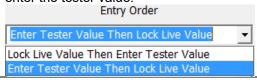


All PVs

Step 7

Entry Order

You can choose to lock the live value either before or after you enter the tester value.



Suggested Tester Values	You can select suggested tester values based on calculations, or based on the last test performed. Suggested Tester Values
	Use Calculated Values Use Calculated Values Use Values From Last Test
Disable Station Control Manual Mode Warning	Check this to disable the station control Manual Mode Warning. The warning shows up at the end of the calibration process to remind you the station is still in manual mode.
	UsrAICal Station(s): 1, are in Manual Control! OK
File Save Path	Specify the folder where you want to save calibration logs.
Q-Bit Value for Al Point During Calibration and Verification	When you check this, the questionable data bit (Q-bit) turns ON for all Al process variables whenever calibration or verification operations are in progress.
(8-run version only)	When left unchecked, the questionable data bit (Q-bit) turns OFF for all Al process variables whenever calibration or verification operations are in progress.
Al Point to be Calibrated	Select the Al point you want to calibrate; the Slot Number and Point Number fields update once you make this selection.
PV Type	Once you select the AI point you want to calibrate; you must specify the type of process variable. If you've previously calibrated the point, the point type defaults to your previous choice.
Raw Value	Check this box to display the raw value in use.
Slot Number	This is the I/O Slot Number to which this point is assigned.
Point Number	This is the I/O point on the I/O slot to which this variable is assigned.
Zero	Shows the Zero value for this Al. This value represents the zero point for the Al.
Span	Shows the Span value for this Al. This represents 100% of span for the Al.
Units	Shows the engineering units for this AI.
Live	Shows the current reading of the analog input.

In Use	Shows the value being used by the Station Manager application. If the value in use is different than the live value, that can be because the AI is in Maintenance Mode (which locks the value).
Step	This column shows the order is which calibration commands will be executed. The first step shows the first calibration command which will execute, the second step shows the second calibration command which will execute, and so on. This order is determined based on selections in the Edit PV section.
Actual	This column records the actual value read from the Al during a particular step.
Tester	This column records the known good value you applied using a test device during this step.
Deviation	This column shows the difference between the actual value and the tester value. If this difference exceeds the deviation limit linearization will not be performed.
Live Value	Shows the current live reading from the AI.
Tester Value	Enter a known good value for the pressure (or temperature) from a test device here.
Start Calibration / Next	Click here to start the calibration process or proceed to the next step.
Back	Click here to go to the previous calibration step.
Skip	Click here to skip a calibration step.
End	Click here to end the calibration process.
Cancel	Click here to cancel the current calibration step.
Comments	This section lets you optionally enter comments in the calibration log files.
Enter / Edit Comments	Click this to open the Comments dialog box. Text you enter in the In Report Comments field gets included in the current calibration log; text you enter in the Between Report Comments field gets added after the current calibration log and before the next log. Click OK to include the comments or Cancel to discard them.

Process

General Calibration Calibration processes and the order of steps vary from organization to organization.

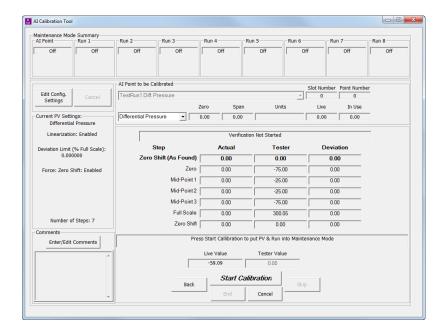


Figure 3-86. AI Calibration – Ready to Start Calibration Process

The general calibration process is as follows:

- 1. First, select the AI Point to be Calibrated.
- 2. Next, select the type of point you are calibrating.
- Enter a tester value appropriate for the particular calibration step and click Start Calibration. Watch the status bar for information on the process. When the step completes, click Next to proceed to the next step and enter tester values as required. Continue this until the last step.
- **4.** When the last step is complete, click **Finish Calibration**.
- **5.** You'll be prompted to provide a name for the report. The default name is the site name. Enter a name and click **OK**.

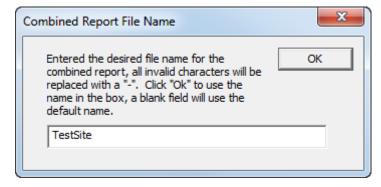
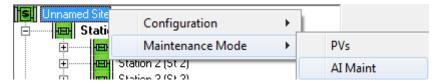


Figure 3-87. Combined Report File Name

3.2.25 Al Maintenance

To put an analog input (AI) into maintenance mode, right-click on the icon for the site, and choose **Maintenance Mode > AI Maint** from the pop-up menus:



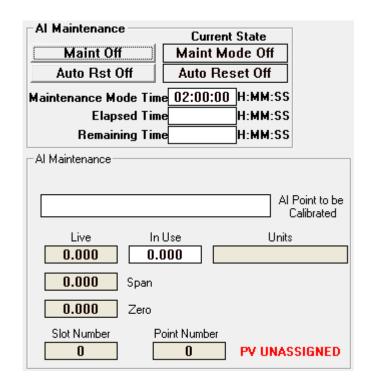


Figure 3-88. AI Maintenance

Field	Description
Al Maintenance	This section of the screen controls the maintenance mode for the selected Al input.
Maint Off / Maintenance	This button takes the AI in and out for maintenance mode. To disable maintenance mode, click Maint Off ; when maintenance mode is successfully disabled the Current State shows Maint Mode Off. To enable maintenance mode, click Maintenance ; when maintenance mode is successfully enabled the Current State shows Maintenance.
Auto Reset / Auto Rst Off	This button enables/disables Auto Reset.

	To enable Auto Reset, click Auto Reset ; the Current State updates to show Auto Reset is on and maintenance mode for the Al input will be disabled automatically after the period set under the Maintenance Mode Time . To disable Auto Reset, click Auto Rst Off ; the Current State updates to show Auto Rst Off. This means maintenance mode for the Al input will never be disabled automatically.
Maintenance Mode Time	The Maintenance Mode Auto Reset Timer is in the format DD HH:MM:SS.S
	Where:
	DD number of days HH number of hours MM number of minutes SS.S number of seconds (resolution of 10ths)
	The maximum time allowed for the maintenance mode auto reset timer is
	24 20:31:23.9 – (24 Days, 20 hours, 31 minutes, 23.9 seconds)
Elapsed Time	This is the amount of time the Al input has been in maintenance mode.
Remaining Time	When Auto Reset is enabled, this is the time remaining until the maintenance mode is automatically reset.
	When Auto Reset is disabled, this field remains at 00 00:00:00.0.
Al Point to be Calibrated	Select the AI point to be calibrated from the drop down menu.
Live	The live value, coming from the Analog Input.
In Use	The value in use. When maintenance mode is off, this will be the live value. When maintenance mode is on, this value may be overridden by the user.
Units	This will be the units of the variable, assigned from the I/O configuration page.
Span	This will be span of the variable, assigned from the I/O configuration page
Zero	This will be the zero of the variable, assigned from the I/O configuration page.
Slot Number	This is the I/O Slot Number that this point is assigned to.
Point Number	This is the I/O point on the I/O slot that this variable is assigned to.

3.2.26 Site Maintenance

You can place the entire site in Maintenance Mode. When this occurs, all runs at the site are placed in Maintenance Mode.

To put a site into maintenance mode, right-click on the icon for the site, and choose **Maintenance Mode** > **Site** from the pop-up menu:

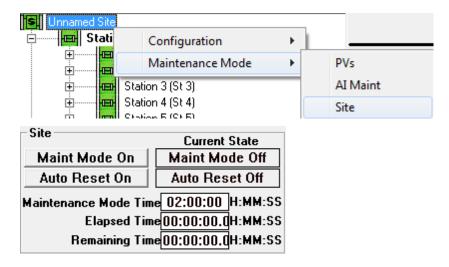


Figure 3-89. Site Maintenance

The following items are available on the Site Maintenance Mode screen.

Field	Description
<u>Site</u>	This section of the screen controls the maintenance mode for the site.
Maint Mode Off / Maint Mode On	If the Current State says Maint Mode On, you can disable maintenance mode by clicking the Maint Mode Off button. If the Current State says Maint Mode Off, you can enable maintenance mode by clicking the Maint Mode On button.
Auto Reset On / Auto Rst Off	If the Current State says Auto Reset On, you can disable Auto Reset by clicking the Auto Rst Off button. This prevents maintenance mode for the site from being disabled automatically.
	If the Current State says Auto Rst Off, you can enable Auto Reset by clicking the Auto Reset On button. If Auto Reset is enabled, maintenance mode for the site will be disabled automatically after the period set under the Maintenance Mode Auto Reset Timer
	Note : if Auto Reset is set at the Station level or Run Level, it takes precedence over the setting at the site level. To disable Auto Reset, make certain that it is disabled at the site, station, and run level.

Maintenance The Maintenance Mode Auto Reset Timer is in the format DD HH:MM:SS.S Where:

DD number of days
HH number of hours
MM number of minutes

SS.S number of seconds (resolution of 10ths)

The maximum time allowed for the maintenance mode auto reset timer is

24 20:31:23.9 – (24 Days, 20 hours, 31 minutes, 23.9 seconds)

Elapsed Time

This is the amount of time the site has been in maintenance mode.

Remaining Time

When Auto Reset is enabled, this is the time remaining until the maintenance mode is automatically reset.

Issued: February 2023

When Auto Reset is disabled, this field remains at 00 00:00:00.0.

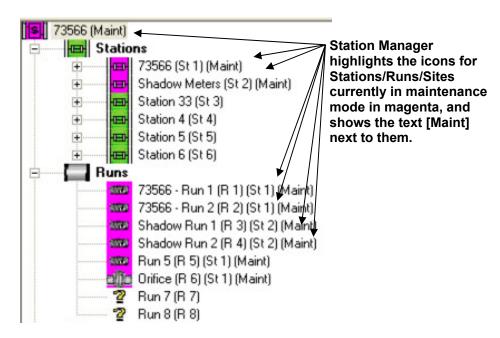


Figure 3-90. Stations, Runs, and Site in Maintenance Mode

3.2.27 Station Maintenance

To put a station into maintenance mode, right-click on the icon for the station, and choose **Maintenance Mode** from the pop-up menu:



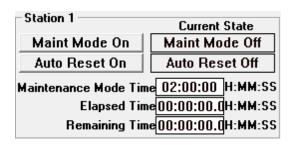


Figure 3-91. Station Maintenance

Field	Description
Station n	This section of the screen controls the maintenance mode for the selected station.
Maint Mode Off / Maint Mode On	If the Current State says Maint Mode On, you can disable maintenance mode by clicking the Maint Mode Off button. If the Current State says Maint Mode Off, you can enable maintenance mode by clicking the Maint Mode On button.
Auto Reset On / Auto Reset Off	If the Current State says Auto Reset On, you can disable Auto Reset by clicking the Auto Reset Off button. This prevents maintenance mode for the site from being disabled automatically.
	If the Current State says Auto Reset Off, you can enable Auto Reset by clicking the Auto Reset On button. If Auto Reset is enabled, maintenance mode for the site will be disabled automatically after the period set under the Maintenance Mode Auto Reset Timer
	Note: If Auto Reset is set at the Station level, it takes precedence over the setting at the site and run level. To disable Auto Reset, make certain that it is disabled at the site, station, and run level.
Maintenance Mode Time	The Maintenance Mode Auto Reset Timer is in the format DD HH:MM:SS.S
	Where:
	DD number of days

НН number of hours MM number of minutes number of seconds (resolution of 10ths) SS.S The maximum time allowed for the maintenance mode auto reset timer is 24 20:31:23.9 - (24 Days, 20 hours, 31 minutes, 23.9 seconds) **Elapsed Time** This is the amount of time the station has been in maintenance mode. When Auto Reset is enabled, this is the time remaining **Remaining Time** until the maintenance mode is automatically reset. When Auto Reset is disabled, this field remains at 00 00:00:00.0.

To bring up the maintenance mode screen for all six stations simultaneously, right-click on the icon for the site, and choose **Maintenance Mode > Stations** from the pop-up menus:

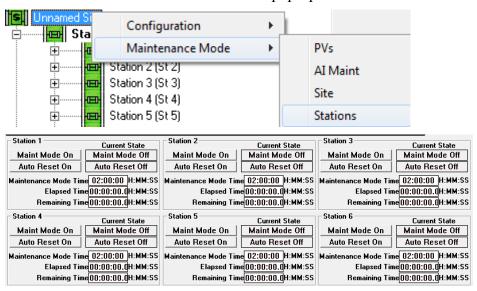
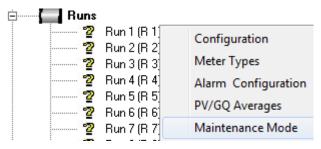


Figure 3-92. All Stations Maintenance

3.2.28 Run Maintenance

To put a meter run into maintenance mode, first right-click on the icon for the meter run, and choose **Maintenance Mode** from the pop-up menu:



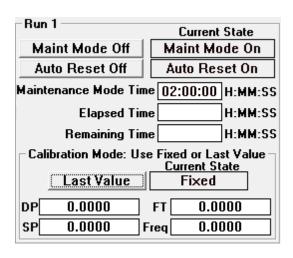


Figure 3-93. Run Maintenance

Field	Description
Run n	This section of the screen controls the maintenance mode for the selected run.
Maint Mode Off / Maint Mode On	If the Current State says Maint Mode On, you can disable maintenance mode by clicking the Maint Mode Off button. If the Current State says Maint Mode Off, you can enable maintenance mode by clicking the Maint Mode On button.
Auto Reset Off / Auto Reset On	If the Current State says Auto Reset On, you can disable Auto Reset by clicking the Auto Reset Off button. This prevents maintenance mode for the site from being disabled automatically.
	If the Current State says Auto Reset Off, you can enable Auto Reset by clicking the Auto Reset On button. If Auto Reset is enabled, maintenance mode for the site will be disabled automatically after the period set under the Maintenance Mode Auto Reset Timer

	NOTE – if Auto Reset is set at the Run level, it takes precedence over the setting at the site or station level. To disable Auto Reset, make certain that it is disabled at the site, station, and run level.
Maintenance Mode Time	The Maintenance Mode Auto Reset Timer is in the format DD HH:MM:SS.S
	Where: DD number of days HH number of hours MM number of minutes SS.S number of seconds (resolution of 10ths)
	The maximum time allowed for the maintenance mode auto reset timer is
	24 20:31:23.9 – (24 Days, 20 hours, 31 minutes, 23.9 seconds)
Elapsed Time	This is the amount of time the run has been in maintenance mode.
Remaining Time	When Auto Reset is enabled, this is the time remaining until the maintenance mode is automatically reset.
	When Auto Reset is disabled, this field remains at 00 00:00:00.0.
Calibration Mode Use Fixed or Last Value	
Fixed / Last Value	If the Current State says Fixed, calibration mode uses fixed values; you can force it to use the last value by clicking the Last Value button. If the Current State says Last Value, calibration mode uses the last values; you can force it to use the fixed values by clicking the Fixed button.
DP	When using fixed values for calibration, you specify the fixed value for differential pressure here.
SP	When using fixed values for calibration, you specify the fixed value for static pressure here.
FT	When using fixed values for calibration, you specify the fixed value for flowing temperature here.
Freq	When using fixed values for calibration, you specify the fixed value for frequency here.

To bring up the maintenance mode screen for all meter runs simultaneously, right-click on the icon for the site, and choose **Maintenance Mode > Runs** from the pop-up menus:



Figure 3-94. All Runs Maintenance (6-Runs Shown)

3.3 Gas Chromatograph Configuration

When you click the Gas Chromatograph Configuration button on the Measurement tab, Station Manager opens up the Gas Chromatograph Configuration pages.

Customers have used Station Manager with the following gas chromatographs:

- Daniel/Rosemount 2350A
- Daniel/Rosemount with El Paso mapping
- Encal Euro 2000
- ABB NGC 8200 series
- COSA HGC 303

The Gas Chromatograph Configuration page includes a general configuration area at the top, and then multiple tabs with additional information.

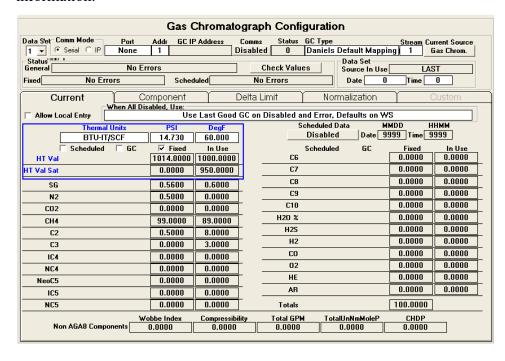


Figure 3-95. Gas Chromatograph Configuration

3.3.1 General

Field	Description
Data Set	The Station Manager can poll from 1 to 8 gas chromatographs (1 to 6 for the 6-run version). The polling can be done for a single stream or multiple streams of data from each chromatograph. Each polled stream is considered a data set.

	For each data set, the communications mode, chromatograph address, data mapping, and stream must be configured. The data set to be configured is selected from the drop down list.
Comm Mode	Communications to the gas chromatograph may be via either a Serial (RS-232 or RS-485) or an IP (Ethernet) connection.
	For serial communications to the gas chromatograph, the serial port must be configured for the proper protocol, baud rate, etc. via the Flash Configuration Profile communication port settings.
Port	If the serial communication mode is selected, the serial port on the Station Manager controller that will be connected to the gas chromatograph will be specified here.
	The serial port must be configured for the proper protocol, baud rate, etc. via the Flash Configuration Profile communication port settings.
Addr	The local address of the gas chromatograph will be specified here.
	Every gas chromatograph will have a local address (from 1 to 255).
GC IP Address	If the IP communications mode is selected, the IP address of the gas chromatograph will be specified here.
	It is necessary to configure the IP address and routing for the Station Manager controller so that the IP address of the gas chromatograph is reachable.
Comms	This button will be used to enable or disable communications to the gas chromatograph.
	If communications are disabled, and valid data has never been retrieved from the gas chromatograph for this data set, the default (Fixed) chromatograph values will be seen in the GC column of the Current GC Data section on this page.
	If communications are disabled, and valid data has been retrieved from the gas chromatograph for this data set, the last valid data will be seen in the GC column of the Current GC Data section on this page.
Status	A status code indicating the health of the communications between the Station Manager controller and the chromatograph will be displayed here.
	If any code other than 0 is displayed here, see <i>Appendix E – Troubleshooting</i> .

		Explanation
	Daniel Default Mapping	The Daniel 2251 has a default data map, where the gas components are located in a set of specific registers.
	Daniel Custom Mapping	The Daniel 2251 and other compatible GCs also allow for a custom data map, where the gas components can be assigned to a user defined set of registers. When the gas chromatograph is configured in this way, the Station Manager controller determines the custom register map automatically. However, a Daniel C9+ chromatograph register assignments cannot be autodetected.
	Daniel User Defined	In the case where the gas chromatograph does not support either the Daniel Default Mapping or the Daniel Custom Mapping, a user defined data map can be configured. If this option is selected, it is then necessary to make the register assignments on the Custom tab. (See Section 3.3.6 for details on configuring a custom map.)
	European Encal 2000	This configuration is rarely used in North America. Most Encal chromatographs deployed in North America support the Daniel 2251 emulation.
		This communication scheme is necessary for the European version of the Encal 2000 chromatograph because not all of the registers required by the Daniel emulation are supported.
	El Paso Mapping	This is a Daniel GC with El Paso data mapping.
	User Defined (List)	Import GC data from List 30 which is populated by another source such as a BSAP or Modbus master. If this option is selected, it is then necessary to make the register assignments on the Custom tab. (See Section 3.3.6 for details on configuring a custom map.)
Stream		graphs can support multiple gas streams. to be collected is specified here.
Current Source	Choose between for the source.	gas chromatograph (GC) or analog input (AI)

Issued: February 2023

Status

General

There are a number of failure conditions that can be reported. These failure conditions are either reported by the gas chromatograph, or may be derived by the Station Manager controller.

The messages are:

No Errors - No errors are reported or detected

Checksum Fail – A checksum failure has been reported by the gas chromatograph (GC)

Analyzer Fail (GC) - The GC reports an analyzer failure

PreAmp Fail (GC) – The GC reports a PreAmp failure

Component Out of Range – The Station Manager controller has detected a component out of range. One of the components exceeds the out-of-range limits defined on the Component Ranges screen

HtVal Checksum Fail – Heating value checksum failure. The Station Manager controller calculates the expected heating value, based on the mole percent of each gas component. It compares the reported heating value with the calculated heating value, and if the values are not within the configured deadband, a HtVal Checksum Fail is reported.

SG Checksum Fail – Specific Gravity checksum failure. The Station Manager controller calculates the expected specific gravity, based on the mole percent of each gas component. It compares the reported specific gravity with the calculated specific value, and if the values are not within the configured deadband, an SG Checksum Fail is reported.

Total Out of Range – The mole percent of each component is added. If the value is not 100% +/- some limit, the Total Out-of-Range failure is reported.

General Fail – General failure from the GC. This comes from a Modbus register.

General Fail DI – General failure from the GC. This comes from a discrete input (DI).

Stale Time Fail – If the data from the gas chromatograph has not updated within a specified limit, a Stale Time Failure will be reported.

Comm Fail – This indicates a communication failure between the Station Manager controller and the GC. See the "Comm Status Code" section for more details.

Delta Fail – This indicates that the change in one or more of the values reported back by the GC have had a change from one poll to the next that is larger than the limit allowed. Fixed Data Fail – This message indicates an error in the Fixed Data configured for this data set. The details of this error will be found in the Fixed Properties Status message.

Timed Data Fail – This message indicates an error in the Scheduled Data configured for this data set. The details of this error will be found in the Scheduled Data Status message.

Calibration Mode – Indicates the gas chromatograph is in calibration mode. While in calibration mode the source for GC data is either from the fixed values, or from the last good GC data, depending upon settings.

Stream Error – This indicates a stream number mismatch during an update.

Check Values

You can force the application to detect any existing failure messages without waiting for the next GC poll by clicking on the **[Check Values]** button.

Fixed

The fixed data status message will be reported here. If the fixed data entries are valid, No Errors will be reported. If there is a problem with the fixed data entries, a "Fixed Data Fail" message will be reported as a "GC Failure Message", and the specific error will be reported here. The errors are:

No Errors

Value Out of Range – The Station Manager controller has detected a component out of range. One of the components exceeds the out-of-range limits defined on the Component Ranges screen

HtVal Check Fail – Heating value checksum failure. The Station Manager controller calculates the expected heating value, based on the mole percent of each gas component. It compares the entered heating value with the calculated heating value, and if the values are not within x %, a HtVal Checksum Fail is reported.

SG Check Fail – Specific Gravity checksum failure. The Station Manager controller calculates the expected specific gravity, based on the mole percent of each gas component. It compares the entered specific gravity with the calculated specific value, and if the values are not within x %, an SG Checksum Fail is reported.

Value Sum Fail – The mole percent of each component is added. If the value is not 100% +/- some programmable limit, the Value Sum failure is reported.

Scheduled

The scheduled data status message will be reported here.

If the scheduled data entries are valid, No Errors will be reported. If there is a problem with the scheduled data entries, a "Timed Data Fail" message will be reported as a "GC Failure Message", and the specific error will be reported here. The errors are:

No Errors

Value Out of Range – The Station Manager controller has detected a component out of range. One of the components exceeds the out-of-range limits defined on the Component Ranges screen

HtVal Check Fail – Heating value checksum failure. The Station Manager controller calculates the expected heating value, based on the mole percent of each gas component. It compares the entered heating value with the calculated heating value, and if the values are not within x %, a HtVal Checksum Fail is reported.

SG Check Fail – Specific Gravity checksum failure. The Station Manager controller calculates the expected specific gravity, based on the mole percent of each gas component. It compares the entered specific gravity with the calculated specific value, and if the values are not within x %, an SG Checksum Fail is reported.

Value Sum Fail – The mole percent of each component is added. If the value is not 100% +/- some programmable limit, the Value Sum failure is reported.

Data Set	
Source in Use	Shows LAST when the source in use is the last good GC data; shows FIXED when the source is fixed data entries.
Date	The date format is MMDDYYYY.
Time	The time format is hhmmss.

3.3.2 Current Tab (Gas Chromatograph Configuration)

The Current gas chromatograph data is reported on this sub tab.

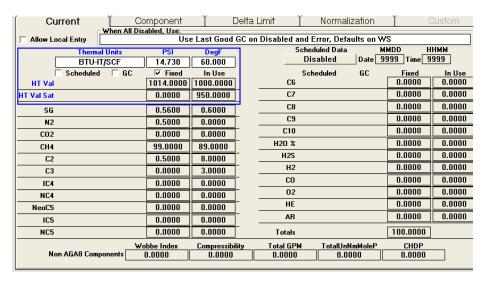


Figure 3-96. Gas Chromatograph Configuration – Current sub-tab

Field	Description
When All Disabled, Use:	Select from one of these options:
(Station Manager 8-Run)	Use Last Good GC on Disabled and Error, Defaults on Warm Start Station Manager uses the last good values from the chromatograph if communications to the chromatograph are disabled or if a failure is
	detected. On warm start, use configured default values.
	Use Last Good GC on Disabled, Error and Warm Start Station Manager uses the last good values from the chromatograph if communications to the chromatograph are disabled, if a failure is detected, or on a warm start.
	Used Fixed on Disabled, Error and Warm Start Station Manager uses Fixed properties if communications to the gas chromatograph are disabled, or if there is a failure detected or on a warm start.
When All Disabled, Use Fixed	Enable or Disable the use of fixed data by toggling this button.
(Station Manager 6- Run)	When Disabled, fixed properties will not be used if communications to the gas chromatograph are disabled, or if there is a failure detected. Instead, the last good values will be used.

	When Enabled, the fixed properties will be used if communications to the gas chromatograph are disabled, or if there is a failure detected.
Allow Local Entry	When the "Allow Local Entry" check box is marked, it is possible to enter the Scheduled and Fixed data locally. When is it not marked, this data may only be downloaded via the SCADA Host, using either the Enron MODBUS or BSAP protocols.
Scheduled Data	It is possible to load gas component data to the Station Manager controller, and then schedule when this data will become the in-use data. Scheduled data is written to the fixed data at the scheduled time. To enable this feature, toggle the Scheduled Data Disabled/Enabled button.
Date, Time	The scheduled data and the Date and Time for the scheduled data to be used may be downloaded via the SCADA Host, using either the Enron MODBUS or BSAP protocols. The data may also be entered locally, if the "Allow Local Entry" check box is marked.
Thermal Units	Select the thermal units appropriate for your chromatograph.
PSI	Specify the base pressure in pounds per square inch (PSI) appropriate for your chromatograph.
DegF	Specify the base temperature in degrees Fahrenheit (DegF) appropriate for your chromatograph.
Scheduled	The Scheduled Data appears when you click this box.
	When the "Allow Local Entry" box is marked, this data may be entered locally. Otherwise, the data may only be downloaded via the SCADA Host. By default, these values are 0.0.
	This data will be moved to the In Use data column at the date and time specified in the Scheduled Data Date and Time fields. Format for Date is MMDD, format for Time is hhmm.
GC	The data retrieved from the gas chromatograph appears as shown.
	When there are no errors from the chromatograph, this data will reflect the most recent data polled from the gas chromatograph. If there are errors from the chromatograph, this data will represent the last good data retrieved from the gas chromatograph. The default values are shown above. If no valid communications are ever established with a gas chromatograph, these values will be used.

Component name	The name of the component appears in red if the gas component is out-of-range.
Fixed	The Fixed Data appears as shown.
	When the "Allow Local Entry" box is marked, this data may be entered locally. Otherwise, the data may only be downloaded via the SCADA Host. The default values are shown.
	If the Use Fixed Properties state is set to Enabled, this data will be moved to the In Use data column if communications to the gas chromatograph are disabled, or there is a failure indicated with the gas chromatograph.
	However, if there is an error with the fixed data, this data will not be moved to the In Use data column; instead, the last good values from the gas chromatograph will be used.
In Use	The In Use data appears as shown.
	The In Use data is the data that will be used for measurement. The In Use data is the validated data from the source specified (GC, Fixed, or Scheduled). If data from the specified source is not valid, the last good data is used.

3.3.3 Component Tab (Gas Chromatograph Configuration)

The minimum and maximum ranges for each of the gas components may be set here.

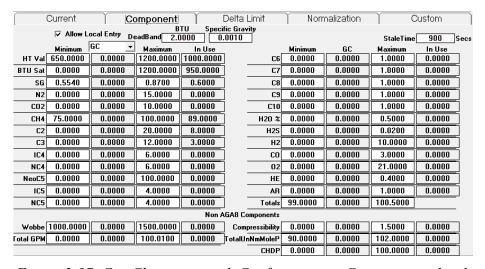


Figure 3-97. Gas Chromatograph Configuration – Component sub-tab

Field	Description

Allow Local Entry	Allow entry when "Fixed" or "Scheduled" is selected.
Deadband BTU	The Deadband to use between GC BTU and Station Manager calculated BTU from GC components. This is an absolute value.
Specific Gravity	The Deadband to use between GC specific gravity and Station Manager calculated specific gravity from GC components. This is an absolute value.
Stale Time	The stale data time limit is entered here.
	If data from the gas chromatograph has not been updated within this time limit, the data will be declared stale.
Fixed, GC, Scheduled	Choose whether fixed, GC, or scheduled values appear in this column.
	Fixed This data will be moved to the In Use data column if communications to the gas chromatograph are disabled, or there is a failure indicated with the gas chromatograph. However, if there is an error with the fixed data, this data will not be moved to the In Use data column; instead, the last good values from the gas chromatograph will be used.
	When there are no errors from the chromatograph, this data will reflect the most recent data polled from the gas chromatograph. If there are errors from the chromatograph, this data will represent the last good data retrieved from the gas chromatograph. If no valid communications are ever established with a gas chromatograph, the default values will be used.
	Scheduled This data will be moved to the In Use data column at the date and time specified for the schedule.
Component name	The name of the component appears in red if the gas component is out-of-range.
Minimum, Maximum	The minimum and maximum values for this gas component
In Use	The In Use data appears as shown.
	The In Use data is the data that will be used for measurement. The In Use data is the validated data from the source specified (GC, Fixed, or Scheduled). I data from the specified source is not valid, the last good data is used.

3.3.4 Delta Limit Tab (Gas Chromatograph Configuration)

The maximum change allowed (+/-) per component is entered here.

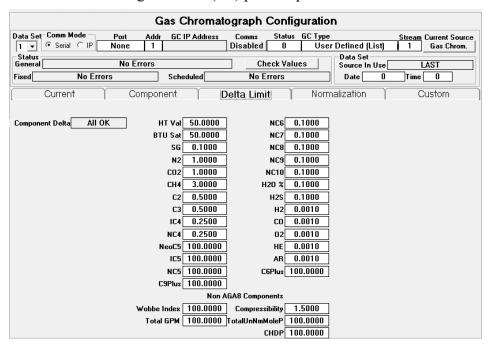


Figure 3-98. Gas Chromatograph Configuration – Delta Limit sub-tab

Field	Description
Delta Limit	If a gas component has changed beyond the delta limit entered here, Station Manager highlights its name in red.
Component Delta	Shows "All OK" if no gas components have changed beyond the delta limit. Otherwise, it shows the most recently detected component that has changed beyond the delta limit.

3.3.5 Normalization Tab (Gas Chromatograph Configuration)

For chromatographs that support C6+ or C6+/C9+, normalization of that data is done here.

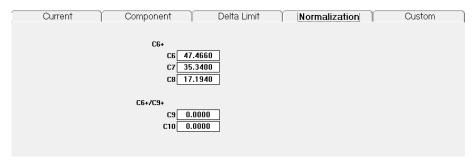


Figure 3-99. Gas Chromatograph Configuration – Normalization sub-tab

The gas chromatograph will report a single value for either C6+ or C6+ and C9+. The percentage applied to each component (C6, C7, C8, C9 and C10) will be how the number reported by the gas chromatograph will be distributed across the components.

3.3.6 Custom Tab (Gas Chromatograph Configuration)

You configure the user defined Custom Data Map here. This map is used when you choose either "Daniel User Defined" or "User Defined (List)" as the **GC Type** on the **Current** tab. (See *Section 3.3.1* for information on setting the GC Type.)

Daniel User Defined

When this is the **GC Type**, click on any gas component and use the drop-down menu to select which Modbus register (7001 to 7016) holds that value. (See *Figure 3-100* below.) Otherwise, leave the component "Unassigned." Press the **Enter** key after you make each selection.

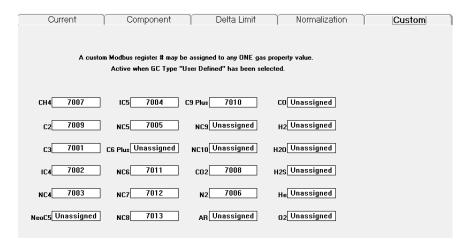


Figure 3-100. Gas Chromatograph Configuration – Custom sub-tab – Daniel User Defined

User Defined (List)

When this is the GC Type, click on any gas component and enter the list element number (1 to *n* where *n* is the highest numbered list element) which holds that value. (See *Figure 3-101* below.) Otherwise, leave the component as **0** which is equivalent to "Unassigned." Press the Enter key after you make each entry. The default user defined list is list 30.

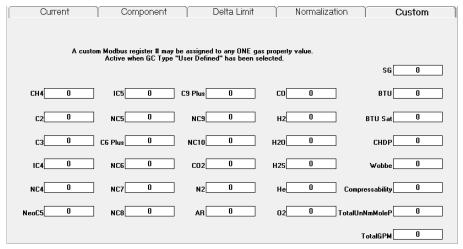


Figure 3-101. Gas Chromatograph Configuration – Custom sub-tab – User Defined (List)

3.4 Gas Chromatograph RF Configuration

To access the Gas Chromatograph Response Factor page, click the

Gas Chromatograph RF Configuration button on the Measurement tab.

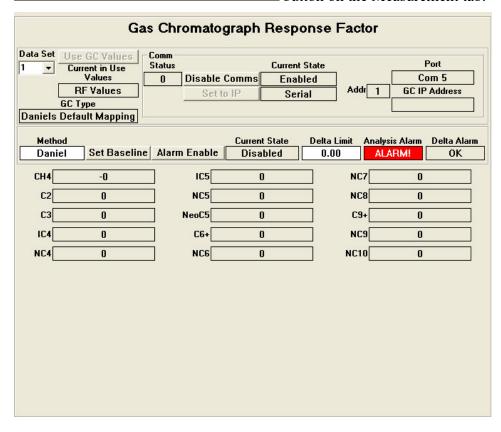


Figure 3-102. Gas Chromatograph Response Factor

Field	Description
Data Set	Select the data set. The number of data sets is 1 to 8 for the 8-run version or 1 to 6 for the 6-run version.
Use GC Values / Use RF Values	Click this button to choose whether values come from the gas chromatograph (GC) or from the entries on this page.
Current in Use Values	Shows the current source for comm. settings; either the chromatograph or the entries you specify on this page.
GC Type	Shows the type of gas chromatograph.
Comm Status	Note: If communications are disabled, data fields for the gas components are not shown.
Comm Status	See the ControlWave Designer online help for the CUSTOM function block for an explanation of these status codes.
Disable Comms/Enable	Click Disable Comms to turn off communications to

Comms	the gas chromatograph.
	Click Enable Comms to turn on communications to
Oat to ID / Oat to Conicl	the gas chromatograph.
Set to IP / Set to Serial	Click Set to IP to use IP communications.
	Click Set to Serial to use serial communications.
Current State	These two fields shows whether communications are enabled or disabled and whether communications are serial or IP.
Addr	Shows the address of the gas chromatograph.
Port	Shows the communication port on the RTU used for the gas chromatograph.
GC IP Addr	Shows the IP address of the gas chromatograph.
Method	Specify the RF evaluation method.
Set Baseline	Set the RF baseline to use for comparison.
Alarm Enable/Disable	Relates to calculation done to see if response factor in bounds.
	Click Alarm Enable to enable the calculation and alarming based on whether the response factor is in bounds.
	Click Alarm Disable to disable the calculation and alarming.
Current State	Shows whether alarming based on the response factor being within bounds is enabled or disabled.
Delta Limit	Specify the limit setting for the delta alarm. This specifies a limit on how much the response factors change; if they exceed the limit it triggers the alarm.
Analysis Alarm	Shows the current state of the RF analysis alarm.
Delta Alarm	Shows the current state of the delta alarm.
CH4	Shows the response factor for the methane component. If no value is shown, communications are disabled.
C2	Shows the response factor for the ethane component. If no value is shown, communications are disabled.
С3	Shows the response factor for the propane component. If no value is shown, communications are disabled.
·	

IC4	Shows the response factor for the I-butane component. If no value is shown, communications are disabled.
NC4	Shows the response factor for the N-butane component. If no value is shown, communications are disabled.
IC5	Shows the response factor for the I-pentane component. If no value is shown, communications are disabled.
NC5	Shows the response factor for the N-pentane component. If no value is shown, communications are disabled.
NeoC5	Shows the response factor for the neo-pentane component. If no value is shown, communications are disabled.
C6+	Shows the response factor for the C6+ component. If no value is shown, communications are disabled.
NC6	Shows the response factor for the N-hexane component. If no value is shown, communications are disabled.
NC7	Shows the response factor for the N-heptane component. If no value is shown, communications are disabled.
NC8	Shows the response factor for the N-octane component. If no value is shown, communications are disabled.
C9+	Shows the response factor for the C9+ component. If no value is shown, communications are disabled.
NC9	Shows the response factor for the N-nonane component. If no value is shown, communications are disabled.
NC10	Shows the response factor for the N-decane component. If no value is shown, communications are disabled.

3.5 Summary Pages

When you click the Summary Page button on the Measurement tab, Station Manager opens up a series of summary pages, which you can access by clicking on its own tabs.

Click on the box(es) for a station you want to view. This displays the basic information for that station, or if you choose "Select All" displays information for all stations for the site.



3.5.1 Measurement Tab

This tab shows information such as the Station Name, the Inlet and Outlet pressures, Flow & Energy rates, Flow Direction, the Run Name, DP or Frequency, SP, FT, and Flow rate. The Run Switching Valve status is displayed as well.

You can click the "Click to Configure" button to bring you to the Measurement Status and Configuration page (see *Section 3.2*).

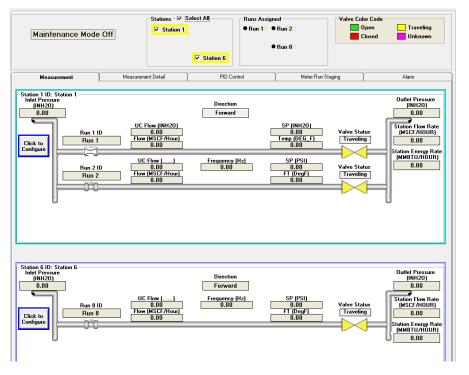


Figure 3-103. Summary Page – Measurement tab

3.5.2 Measurement Detail Tab

The Measurement Detail tab provides detailed information for a station including the station name, the run name, pressure, flow, and temperature, the forward and reverse flow and energy rates, as well as current and previous hour and day totals and non-resettable flow and energy totals.

Measurement Detail Station 1 (Station 1) Station Summary Corrected Flow Rate (MSCF/HOUR) Energy Rate (MMBTU/HOUR) 0.00 0.00 0.00 0.00 ct Hour Energy (MMBTU) ct Hour Energy (MMBTU) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 act Day Energy (MMBTU) Volume (MSCF) Volume (MSCF) Energy (MMBTU) 0.00 0.00 0.00 Click to Configure Run 1 (Run 1) Uncorrected Flow Rate Frequency (Hz) Pressure (PSI) Temp (DegF) Corrected Flow Rate (MSCF / Hour) 0.00 **Not Configured** 0.00 0.00 0.00 0.00 nct Hour Energy (MMBTU) ct Hour Energy (MMBTU) Current Contr Volume (MSCF) Previous Cont Volume (MSCF) Energy Rate (MMBTU/HOUR) 0.000.000.000.00 Current Contract Day
Volume (MSCF) Energy (MMBTU) Previous Contract Day Volume (MSCF) Energy (MMBTU) Volume (MSCF) Energy (MMBTU) 0.00 0.00 0.00 0.00 rrected Flow Rate Frequency (Hz) Pressure (PSI) Temp (DegF) Corrected Flow Rate (MSCF / Hour) Not Configured 0.00 0.00 0.00 0.00 t Hour Energy (MMBTU) Energy Rate (MMBTU/HOUR) Volume (MSCF) Volume (MSCF) Energy (MMBTU) 0.00 0.00 ct Day Energy (MMBTU) nct Day Energy (MMBTU) 0.000.000.000.00 Run 4 (Run 4) orrected Flow Rate (MACF/HOUR) Frequency (Hz) Pressure (INH20) Temp (DEG_F) Corrected Flow Rate (MSCF / Hour) Turbine 0.00 0.00 0.00 0.00 0.00 Current Volume (MSCF) Energy Rate (MMBTU/HOUR) Previo Volume (MSCF) Energy (MMBTU) Energy (MMBTU) 0.00 0.00 is Contract Day
Energy (MMBTU)
0.00 Current Contract Day
Volume (MSCF) Energ Non-Resettable Energy (MMBTU) Volume (MSCF) Volume (MSCF) Energy (MMBTU)

You can click the "Click to Configure" button to bring you to the Measurement Status and Configuration page (see *Section 3.2*).

Figure 3-104. Summary Page – Measurement Detail tab

3.5.3 PID Control Tab

The PID Control tab provides information on the Station Control Mode, Inlet and Outlet pressures, Forward and Reverse Flow and Energy rates, and PID output percent.

The "Click to Configure" button brings you to the Station Control Overview page. See *Section 5.4.1*.

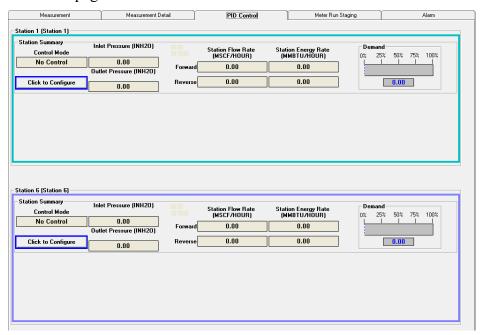


Figure 3-105. Summary Page – PID Control tab

3.5.4 Meter Run Staging Tab

The Meter Run Staging tab provides information on meter run staging.

This includes information on Inlet and Outlet pressures, flow rate, station direction and ranks, tube switching settings and ranks, valve command and status, block valve assignments, and other parameters.

The "Click to Configure" button brings you to the Station Meter Run Staging page. (See *Section 5.5 Meter Run Staging* in *Chapter 5* for more information on meter run staging.)

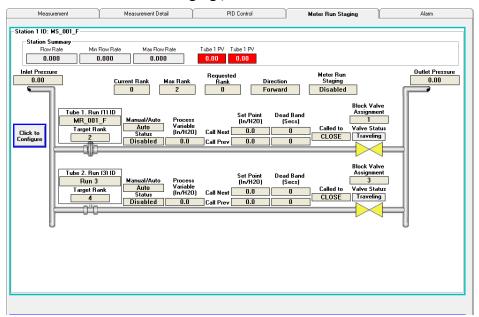


Figure 3-106. Summary Page – Meter Run Staging tab

3.5.5 Alarm Tab

The Alarm tab shows the Run Quality Bit, DP, SP, FT, Beta, Speed of Sound, Delta ABAR, Frequency, and Flow Rate current values and alarm status.

The "Click to Configure" button will bring you to the Measurement Status and Configuration page.

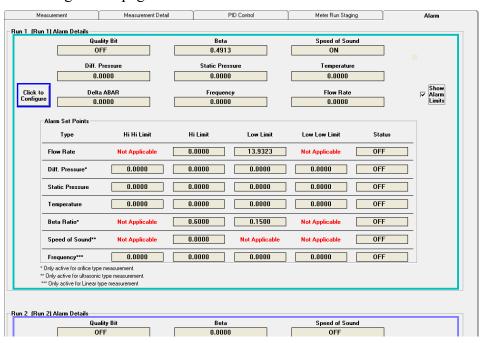


Figure 3-107. Summary Page – Alarm tab

3.6 Water Vapor Content

To go to the Water Vapor Content screen, select the "Measurement" tab, and click on the Water Vapor Content button.

Station Manager calculates the water vapor content of a gas stream using up to six sensors. The 6-run version has up to six streams; the 8-run version has up to eight streams.

The calculation determines the water vapor content of the gas stream using Kahn dew point temperature sensors and the pressure. The equation is from the *Institute of Gas Technology Research Bulletin #8 – "Equilibrium Moisture Content of Natural Gas."*

The equation is:

$$W = A/P + B$$

where:

W = water content (LBS/MMCF)

P = pressure (PSIA)

A = constant proportional to the vapor pressure

B = constant dependent on temperature and gas

The A and B constants come from a lookup table. This implementation does not limit input pressure and dew point temperature.

The calculation for A is:

$$A = PH2O * (18 * 10^6 * Pb) / (10.73 * (459.6 + Tb) * Zb)$$

where:

PH2O = vapor pressure in psia of water at dew point temperature

Pb = base pressure (set as a constant of 14.7 psi)

Tb = base temperature (set as a constant 60.0 degrees F)

Zb = 0.988 base compressibility factor

PH2O =
$$14.5038 * Exp(6.3573118 - 8858.843 / ((T + 459.67) / 1.8) + 607.56335 * ((T + 459.67)/1.8)^-0.6)$$

where:

PH2O = vapor pressure in psia of water at dew point temperature

T = dew point temperature in degrees F (from transducer)

B = Exp(15.40544 - 7093.73 / (T+459.67))

Loss of input of either dew point temperature or pressure will result in an output value of -999999.

This performs a calculation every second for each sensor input. There can be from one to six sensors for a given stream of gas.

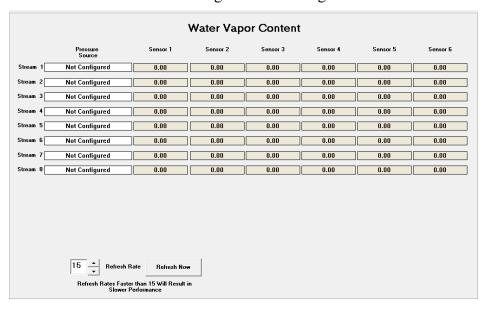


Figure 3-108. Water Vapor Content

For each stream you want to enable, you need to select a pressure source.

For each stream, you can have up to six sensors which are AI inputs.

Once you have a valid pressure source and sensor reading, Station Manager does the calculation for that sensor.

3.7 List 29

To go to the List 29 screen, select the "Measurement" tab, and click on the button.

List 29 is a modifiable list, and may be edited using the On-Line Edit tool to add or remove items from the list.

The 6-run version has 6 meter runs in List 29; the 8-run version has 8 meter runs in List 29.



The math function (described in Chapter 6) references individual elements of this list. If you insert lines in the list before any referenced elements, those positions will change and you must correct the references within the math function to reflect the new positions.

By default, List 29 includes these values:

Position in the List	Variable Name	Variable Description
1	MVT.MVT_1_DP	MVT 1 Static Pressure
2	MVT.MVT_1_SP	MVT 1 Differential Pressure
3	MVT.MVT_1_FT	MVT 1 Temperature
4	MVT.MVT_2_DP	MVT 2 Static Pressure
5	MVT.MVT_2_SP	MVT 2 Differential Pressure
6	MVT.MVT_2_FT	MVT 2 Temperature
7	MVT.MVT_3_DP	MVT 3 Static Pressure
8	MVT.MVT_3_SP	MVT 3 Differential Pressure
9	MVT.MVT_3_FT	MVT 3 Temperature
10	MVT.MVT_4_DP	MVT 4 Static Pressure
11	MVT.MVT_4_SP	MVT 4 Differential Pressure
12	MVT.MVT_4_FT	MVT 4 Temperature
13	MVT.MVT_5_DP	MVT 5 Static Pressure
14	MVT.MVT_5_SP	MVT 5 Differential Pressure
15	MVT.MVT_5_FT	MVT 5 Temperature
16	MVT.MVT_6_DP	MVT 6 Static Pressure
17	MVT.MVT_6_SP	MVT 6 Differential Pressure
18	MVT.MVT_6_FT	MVT 6 Temperature
19	MVT.MVT_7_DP	MVT 7 Static Pressure
20	MVT.MVT_7_SP	MVT 7 Differential Pressure
21	MVT.MVT_7_FT	MVT 7 Temperature
22	MVT.MVT_8_DP	MVT 8 Static Pressure
23	MVT.MVT_8_SP	MVT 8 Differential Pressure
24	MVT.MVT_8_FT	MVT 8 Temperature
25	MVT.MVT_9_DP	MVT 9 Static Pressure
26	MVT.MVT_9_SP	MVT 9 Differential Pressure
27	MVT.MVT_9_FT	MVT 9 Temperature
28	MVT.MVT_10_DP	MVT 10 Static Pressure
29	MVT.MVT_10_SP	MVT 10 Differential Pressure
30	MVT.MVT_10_FT	MVT 10 Temperature

31	MVT.MVT_11_DP	MVT 11 Static Pressure
32	MVT.MVT_11_SP	MVT 11 Differential Pressure
33	MVT.MVT_11_FT	MVT 11 Temperature
34	MVT.MVT_12_DP	MVT 12 Static Pressure
35	MVT.MVT_12_SP	MVT 12 Differential Pressure
36	MVT.MVT_12_FT	MVT 12 Temperature
37	FC.FC1.OR_FLOW_RATE	Run 1 Flow Rate
38	FC.FC1.OR_UCFLOWRATE	Run 1 Uncorrected Flow Rate
39	FC.FC1.OR_ENERGY_RATE	Run 1 Energy Rate
40	FC.FC2.OR_FLOW_RATE	Run 2 Flow Rate
41	FC.FC2.OR_UCFLOWRATE	Run 2 Uncorrected Flow Rate
42	FC.FC2.OR_ENERGY_RATE	Run 2 Energy Rate
43	FC.FC3.OR_FLOW_RATE	Run 3 Flow Rate
44	FC.FC3.OR_UCFLOWRATE	Run 3 Uncorrected Flow Rate
45	FC.FC3.OR_ENERGY_RATE	Run 3 Energy Rate
46	FC.FC4.OR_FLOW_RATE	Run 4 Flow Rate
47	FC.FC4.OR_UCFLOWRATE	Run 4 Uncorrected Flow Rate
48	FC.FC4.OR_ENERGY_RATE	Run 4 Energy Rate
49	FC.FC5.OR_FLOW_RATE	Run 5 Flow Rate
50	FC.FC5.OR_UCFLOWRATE	Run 5 Uncorrected Flow Rate
51	FC.FC5.OR_ENERGY_RATE	Run 5 Energy Rate
52	FC.FC6.OR_FLOW_RATE	Run 6 Flow Rate
53	FC.FC6.OR_UCFLOWRATE	Run 6 Uncorrected Flow Rate
54	FC.FC6.OR_ENERGY_RATE	Run 6 Energy Rate
55	FC.FC7.OR_FLOW_RATE	Run 7 Flow Rate
56	FC.FC7.OR_UCFLOWRATE	Run 7 Uncorrected Flow Rate
57	FC.FC7.OR_ENERGY_RATE	Run 7 Energy Rate
58	FC.FC8.OR_FLOW_RATE	Run 8 Flow Rate
59	FC.FC8.OR_UCFLOWRATE	Run 8 Uncorrected Flow Rate
60	FC.FC8.OR_ENERGY_RATE	Run 8 Energy Rate
61	FC.STATION_1_FFLOWRATE	Station 1 Forward Flow Rate
62	FC.STATION_1_RFLOWRATE	Station 1 Reverse Flow Rate
63	FC.STATION_1_FENERGYRATE	Station 1 Forward Energy Rate
64	FC.STATION_1_RENERGYRATE	Station 1 Reverse Energy Rate
65	FC.STATION_2_FFLOWRATE	Station 2 Forward Flow Rate
66	FC.STATION_2_RFLOWRATE	Station 2 Reverse Flow Rate
67	FC.STATION_2_FENERGYRATE	Station 2 Forward Energy Rate
68	FC.STATION_2_RENERGYRATE	Station 2 Reverse Energy Rate
69	FC.STATION_3_FFLOWRATE	Station 3 Forward Flow Rate
70	FC.STATION_3_RFLOWRATE	Station 3 Reverse Flow Rate
71	FC.STATION_3_FENERGYRATE	Station 3 Forward Energy Rate
72	FC.STATION_3_RENERGYRATE	Station 3 Reverse Energy Rate
73	FC.STATION_4_FFLOWRATE	Station 4 Forward Flow Rate
74	FC.STATION_4_RFLOWRATE	Station 4 Reverse Flow Rate
75	FC.STATION_4_FENERGYRATE	Station 4 Forward Energy Rate
76	FC.STATION_4_RENERGYRATE	Station 4 Reverse Energy Rate
77	FC.STATION_5_FFLOWRATE	Station 5 Forward Flow Rate
78	FC.STATION_5_RFLOWRATE	Station 5 Reverse Flow Rate
79	FC.STATION_5_FENERGYRATE	Station 5 Forward Energy Rate

80	FC.STATION_5_RENERGYRATE	Station 5 Reverse Energy Rate
81	FC.STATION_6_FFLOWRATE	Station 6 Forward Flow Rate
82	FC.STATION_6_RFLOWRATE	Station 6 Reverse Flow Rate
83	FC.STATION_6_FENERGYRATE	Station 6 Forward Energy Rate
84	FC.STATION_6_RENERGYRATE	Station 6 Reverse Energy Rate
		Station 1 Sampler Forward Flow Rate in
85	SMP.ST1_FFLOWRATE_MSCFH	MSCFH
	0140 074 511051 014/0475 144.0511	Station 1 Sampler Forward Uncorrected Flow
86	SMP.ST1_FUCFLOWRATE_MACFH	Rate in MACFH
87	SMP.ST1_FENERGYRATE_MMBTU H	Station 1 Forward Energy Rate in MMBTUH
88		Station 1 Reverse Flow Rate in MSCFH
00	SMP.ST1_RFLOWRATE_MSCFH	Station 1 Reverse Uncorrected Flow Rate in
89	SMP.ST1 RUCFLOWRATE MACFH	MACFH
	SMP.ST1_RENERGYRATE_MMBTU	Wil Col 11
90	H	Station 1 Reverse Energy Rate in MMBTUH
91	SMP.ST1 FLOWRATE MSCFH	Station 1 Sampler Flow Rate in MSCFH
		Station 1 Sampler Uncorrected Flow Rate in
92	SMP.ST1_UCFLOWRATE_MACFH	MACF
93	SMP.ST1_ENERGYRATE_MMBTUH	Station 1 Sampler Energy Rate in MMBTUH
		Station 1 Sampler Forward Flow Rate in
94	SMP.ST1_FFLOWRATE_MSCFD	MSCFD
0.7	0140 074 511051 014/0475 144.050	Station 1 Sampler Forward Uncorrected Flow
95	SMP.ST1_FUCFLOWRATE_MACFD	Rate in MACFD
96	SMP.ST1_FENERGYRATE_MMBTU D	Station 1 Sampler Forward Energy Rate in MMBTUD
90	D	Station 1 Sampler Reverse Flow Rate in
97	SMP.ST1_RFLOWRATE_MSCFD	MSCFD
		Station 1 Sampler Reverse Uncorrected Flow
98	SMP.ST1_RUCFLOWRATE_MACFD	Rate in MACFD
	SMP.ST1_RENERGYRATE_MMBTU	Station 1 Sampler Reverse Energy Rate in
99	D	MMBTUD
100	SMP.ST1_FLOWRATE_MSCFD	Station 1 Sampler Flow Rate in MSCFD
404	0140 074 11051 0140 475 144 050	Station 1 Sampler Uncorrected Flow Rate in
101	SMP.ST1_UCFLOWRATE_MACFD	MACFD
102	SMP.ST1_ENERGYRATE_MMBTUD	Station 1 Sampler Energy Rate in MMBTUD
103	SMD ST2 EELOW/DATE MSCEH	Station 2 Sampler Forward Flow Rate in MSCFH
103	SMP.ST2_FFLOWRATE_MSCFH	Station 2 Sampler Forward Uncorrected Flow
104	SMP.ST2_FUCFLOWRATE_MACFH	Rate in MACFH
	SMP.ST2_FENERGYRATE_MMBTU	
105	Н	Station 2 Forward Energy Rate in MMBTUH
106	SMP.ST2_RFLOWRATE_MSCFH	Station 2 Reverse Flow Rate in MSCFH
-		Station 2 Reverse Uncorrected Flow Rate in
107	SMP.ST2_RUCFLOWRATE_MACFH	MACFH
	SMP.ST2_RENERGYRATE_MMBTU	
108	H	Station 2 Reverse Energy Rate in MMBTUH
109	SMP.ST2_FLOWRATE_MSCFH	Station 2 Sampler Flow Rate in MSCFH
440	CMD CTO LICELOWDATE MACCUL	Station 2 Sampler Uncorrected Flow Rate in
110	SMP.ST2_UCFLOWRATE_MACFH	MACF
111	SMP.ST2_ENERGYRATE_MMBTUH	Station 2 Sampler Energy Rate in MMBTUH
112	SMP.ST2 FFLOWRATE MSCFD	Station 2 Sampler Forward Flow Rate in MSCFD
112	GWIF.GTZ_TTLOWNATE_WGGFD	Station 2 Sampler Forward Uncorrected Flow
113	SMP.ST2 FUCFLOWRATE MACFD	Rate in MACFD
	5 15.1 <u></u> . 66. 26 4.112_NII.61 D	

114	SMP.ST2_FENERGYRATE_MMBTU D	Station 2 Sampler Forward Energy Rate in MMBTUD
115	SMP.ST2_RFLOWRATE_MSCFD	Station 2 Sampler Reverse Flow Rate in MSCFD
116	SMP.ST2_RUCFLOWRATE_MACFD	Station 2 Sampler Reverse Uncorrected Flow Rate in MACFD
117	SMP.ST2_RENERGYRATE_MMBTU D	Station 2 Sampler Reverse Energy Rate in MMBTUD
118	SMP.ST2_FLOWRATE_MSCFD	Station 2 Sampler Flow Rate in MSCFD Station 2 Sampler Uncorrected Flow Rate in
119	SMP.ST2_UCFLOWRATE_MACFD	MACFD
120	SMP.ST2_ENERGYRATE_MMBTUD	Station 2 Sampler Energy Rate in MMBTUD Station 3 Sampler Forward Flow Rate in
121	SMP.ST3_FFLOWRATE_MSCFH	MSCFH Station 3 Sampler Forward Uncorrected Flow
122	SMP.ST3_FUCFLOWRATE_MACFH	Rate in MACFH
123	SMP.ST3_FENERGYRATE_MMBTU H	Station 3 Forward Energy Rate in MMBTUH
124	SMP.ST3_RFLOWRATE_MSCFH	Station 3 Reverse Flow Rate in MSCFH
125	SMP.ST3_RUCFLOWRATE_MACFH	Station 3 Reverse Uncorrected Flow Rate in MACFH
	SMP.ST3_RENERGYRATE_MMBTU	
126	Н	Station 3 Reverse Energy Rate in MMBTUH
127	SMP.ST3_FLOWRATE_MSCFH	Station 3 Sampler Flow Rate in MSCFH
400	CMD CT2 LICELOWDATE MACELL	Station 3 Sampler Uncorrected Flow Rate in
128	SMP.ST3_UCFLOWRATE_MACFH	MACF
129	SMP.ST3_ENERGYRATE_MMBTUH	Station 3 Sampler Energy Rate in MMBTUH Station 3 Sampler Forward Flow Rate in
130	SMP.ST3_FFLOWRATE_MSCFD	MSCFD
131	SMP.ST3_FUCFLOWRATE_MACFD	Station 3 Sampler Forward Uncorrected Flow Rate in MACFD
	SMP.ST3_FENERGYRATE_MAGED	Station 3 Sampler Forward Energy Rate in
132	D	MMBTUD
133	SMP.ST3 RFLOWRATE MSCFD	Station 3 Sampler Reverse Flow Rate in MSCFD
		Station 3 Sampler Reverse Uncorrected Flow
134	SMP.ST3_RUCFLOWRATE_MACFD	Rate in MACFD
135	SMP.ST3_RENERGYRATE_MMBTU D	Station 3 Sampler Reverse Energy Rate in MMBTUD
136	SMP.ST3 FLOWRATE MSCFD	Station 3 Sampler Flow Rate in MSCFD
130	Sivil .010_1 LOWICKTE_INIOOI D	Station 3 Sampler Uncorrected Flow Rate in
137	SMP.ST3_UCFLOWRATE_MACFD	MACFD
138	SMP.ST3_ENERGYRATE_MMBTUD	Station 3 Sampler Energy Rate in MMBTUD
		Station 4 Sampler Forward Flow Rate in
139	SMP.ST4_FFLOWRATE_MSCFH	MSCFH Station A Sampler Forward Uncorrected Flow
140	SMP.ST4 FUCFLOWRATE MACFH	Station 4 Sampler Forward Uncorrected Flow Rate in MACFH
	SMP.ST4_FENERGYRATE_MMBTU	. 15.15 1111 101 11
141	Н	Station 4 Forward Energy Rate in MMBTUH
142	SMP.ST4_RFLOWRATE_MSCFH	Station 4 Reverse Flow Rate in MSCFH
	0110 074 011001 01170 177	Station 4 Reverse Uncorrected Flow Rate in
143	SMP.ST4_RUCFLOWRATE_MACFH	MACFH
144	SMP.ST4_RENERGYRATE_MMBTU H	Station 4 Reverse Energy Rate in MMBTUH
145	SMP.ST4 FLOWRATE MSCFH	Station 4 Sampler Flow Rate in MSCFH
143	OWI .OTT_I LOWNATE_WOOTH	Granon - Gampier Flow Nate in Moor H

146	SMP.ST4_UCFLOWRATE_MACFH	Station 4 Sampler Uncorrected Flow Rate in MACF
147	SMP.ST4_ENERGYRATE_MMBTUH	Station 4 Sampler Energy Rate in MMBTUH
148	SMP.ST4 FFLOWRATE MSCFD	Station 4 Sampler Forward Flow Rate in MSCFD
140	SWF.ST4_FFEOWRATE_WSCFD	Station 4 Sampler Forward Uncorrected Flow
149	SMP.ST4 FUCFLOWRATE MACFD	Rate in MACFD
	SMP.ST4_FENERGYRATE_MMBTU	Station 4 Sampler Forward Energy Rate in
150	D	MMBTUD
454	CMD CT4 DELOWDATE MCCED	Station 4 Sampler Reverse Flow Rate in
151	SMP.ST4_RFLOWRATE_MSCFD	MSCFD Station 4 Sampler Reverse Uncorrected Flow
152	SMP.ST4_RUCFLOWRATE_MACFD	Rate in MACFD
	SMP.ST4 RENERGYRATE MMBTU	Station 4 Sampler Reverse Energy Rate in
153	D	MMBTUD
154	SMP.ST4_FLOWRATE_MSCFD	Station 4 Sampler Flow Rate in MSCFD
4		Station 4 Sampler Uncorrected Flow Rate in
155	SMP.ST4_UCFLOWRATE_MACFD	MACFD
156	SMP.ST4_ENERGYRATE_MMBTUD	Station 4 Sampler Energy Rate in MMBTUD Station 5 Sampler Forward Flow Rate in
157	SMP.ST5_FFLOWRATE_MSCFH	MSCFH
	om .e.o	Station 5 Sampler Forward Uncorrected Flow
158	SMP.ST5_FUCFLOWRATE_MACFH	Rate in MACFH
	SMP.ST5_FENERGYRATE_MMBTU	
159	H	Station 5 Forward Energy Rate in MMBTUH
160	SMP.ST5_RFLOWRATE_MSCFH	Station 5 Reverse Flow Rate in MSCFH
161	SMP.ST5_RUCFLOWRATE_MACFH	Station 5 Reverse Uncorrected Flow Rate in MACFH
101	SMP.ST5 RENERGYRATE MMBTU	WACITI
162	H	Station 5 Reverse Energy Rate in MMBTUH
163	SMP.ST5_FLOWRATE_MSCFH	Station 5 Sampler Flow Rate in MSCFH
		Station 5 Sampler Uncorrected Flow Rate in
164	SMP.ST5_UCFLOWRATE_MACFH	MACF
165	SMP.ST5_ENERGYRATE_MMBTUH	Station 5 Sampler Energy Rate in MMBTUH
166	SMP.ST5 FFLOWRATE MSCFD	Station 5 Sampler Forward Flow Rate in MSCFD
100	SWF.STS_FFLOWRATE_WSCFD	Station 5 Sampler Forward Uncorrected Flow
167	SMP.ST5 FUCFLOWRATE MACFD	Rate in MACFD
	SMP.ST5_FENERGYRATE_MMBTU	Station 5 Sampler Forward Energy Rate in
168	D	MMBTUD
160	CMD CTE DELOMBATE MCCED	Station 5 Sampler Reverse Flow Rate in
169	SMP.ST5_RFLOWRATE_MSCFD	MSCFD Station 5 Sampler Reverse Uncorrected Flow
170	SMP.ST5 RUCFLOWRATE MACFD	Rate in MACFD
	SMP.ST5_RENERGYRATE_MMBTU	Station 5 Sampler Reverse Energy Rate in
171	D	MMBTUD
172	SMP.ST5_FLOWRATE_MSCFD	Station 5 Sampler Flow Rate in MSCFD
470	CMD OTE LIGHT OWN ATE MACED	Station 5 Sampler Uncorrected Flow Rate in
173	SMP.ST5_UCFLOWRATE_MACFD	MACFD
174	SMP.ST5_ENERGYRATE_MMBTUD	Station 5 Sampler Energy Rate in MMBTUD Station 6 Sampler Forward Flow Rate in
175	SMP.ST6_FFLOWRATE_MSCFH	MSCFH
	<u>-</u>	Station 6 Sampler Forward Uncorrected Flow
176	SMP.ST6_FUCFLOWRATE_MACFH	Rate in MACFH
4	SMP.ST6_FENERGYRATE_MMBTU	0.00
177	Н	Station 6 Forward Energy Rate in MMBTUH

178	SMP.ST6_RFLOWRATE_MSCFH	Station 6 Reverse Flow Rate in MSCFH
470	0145 070 514051 014/5475 144 0514	Station 6 Reverse Uncorrected Flow Rate in
179	SMP.ST6_RUCFLOWRATE_MACFH	MACFH
180	SMP.ST6_RENERGYRATE_MMBTU H	Station 6 Reverse Energy Rate in MMBTUH
181	SMP.ST6_FLOWRATE_MSCFH	Station 6 Sampler Flow Rate in MSCFH
	SWF.STO_LEGWICATE_MSCITI	Station 6 Sampler Uncorrected Flow Rate in
182	SMP.ST6 UCFLOWRATE MACFH	MACF
183	SMP.ST6 ENERGYRATE MMBTUH	Station 6 Sampler Energy Rate in MMBTUH
		Station 6 Sampler Forward Flow Rate in
184	SMP.ST6_FFLOWRATE_MSCFD	MSCFD
		Station 6 Sampler Forward Uncorrected Flow
185	SMP.ST6_FUCFLOWRATE_MACFD	Rate in MACFD
186	SMP.ST6_FENERGYRATE_MMBTU D	Station 6 Sampler Forward Energy Rate in MMBTUD
100	ם	Station 6 Sampler Reverse Flow Rate in
187	SMP.ST6 RFLOWRATE MSCFD	MSCFD
		Station 6 Sampler Reverse Uncorrected Flow
188	SMP.ST6_RUCFLOWRATE_MACFD	Rate in MACFD
	SMP.ST6_RENERGYRATE_MMBTU	Station 6 Sampler Reverse Energy Rate in
189	D	MMBTUD
190	SMP.ST6_FLOWRATE_MSCFD	Station 6 Sampler Flow Rate in MSCFD
191	SMP.ST6 UCFLOWRATE MACFD	Station 6 Sampler Uncorrected Flow Rate in MACFD
192	_	
193	SMP.ST6_ENERGYRATE_MMBTUD MFN.MFN1 BOOL	Station 6 Sampler Energy Rate in MMBTUD Math function 1 BOOL
194	MFN.MFN1_REAL	Math function 1 REAL
195	MFN.MFN2_BOOL	Math function 2 BOOL
196	MFN.MFN2_REAL	Math function 2 REAL
197	MFN.MFN3_BOOL	Math function 3 BOOL
198	MFN.MFN3_REAL	Math function 3 REAL
199	MFN.MFN4_BOOL	Math function 4 BOOL
200	MFN.MFN4_REAL	Math function 4 REAL
201	MFN.MFN5_BOOL	Math function 5 BOOL
202	MFN.MFN5_REAL	Math function 5 REAL
203	MFN.MFN6_BOOL	Math function 6 BOOL
204	MFN.MFN6_REAL	Math function 6 REAL
205	MFN.MFN7_BOOL	Math function 7 BOOL
206	MFN.MFN7_REAL	Math function 7 REAL
207	MFN.MFN8_BOOL	Math function 8 BOOL
208	MFN.MFN8_REAL	Math function 8 REAL
209	MFN.MFN9_BOOL	Math function 9 BOOL
210	MFN.MFN9_REAL	Math function 9 REAL
211	MFN.MFN10_BOOL	Math function 10 BOOL
212	MFN.MFN10_REAL	Math function 10 REAL
213	MFN.MFN11_BOOL	Math function 11 BOOL
214	MFN.MFN11_REAL	Math function 11 REAL
215	MFN.MFN12_BOOL	Math function 12 BOOL
216	MFN.MFN12_REAL	Math function 12 REAL
217	STC.ST1_INLET	Station Control Station 1 Inlet Pressure
218	STC.ST1_OUTLET	Station Control Station 1 Outlet Pressure
219	STC.ST2_INLET	Station Control Station 2 Inlet Pressure

220	STC.ST2_OUTLET	Station Control Station 2 Outlet Pressure
221	STC.ST3_INLET	Station Control Station 3 Inlet Pressure
222	STC.ST3_OUTLET	Station Control Station 3 Outlet Pressure
223	STC.ST4_INLET	Station Control Station 4 Inlet Pressure
224	STC.ST4_OUTLET	Station Control Station 4 Outlet Pressure
225	STC.ST5_INLET	Station Control Station 5 Inlet Pressure
226	STC.ST5_OUTLET	Station Control Station 5 Outlet Pressure
227	STC.ST6_INLET	Station Control Station 6 Inlet Pressure
228	STC.ST6_OUTLET	Station Control Station 6 Outlet Pressure
229	STC.ST1_PID_OUT	Station Control Station 1 PID Output
230	STC.ST2_PID_OUT	Station Control Station 2 PID Output
231	STC.ST3_PID_OUT	Station Control Station 3 PID Output
232	STC.ST4_PID_OUT	Station Control Station 4 PID Output
233	STC.ST5_PID_OUT	Station Control Station 5 PID Output
234	STC.ST6_PID_OUT	Station Control Station 6 PID Output
235	MB.SPARE	

List 29 is a user modifiable list used by the following functions: Station Controls, Process Value Monitor, Process Monitor and Control, & Math Function A user can add or delete variables from List 29 using the On-Line Edit function.

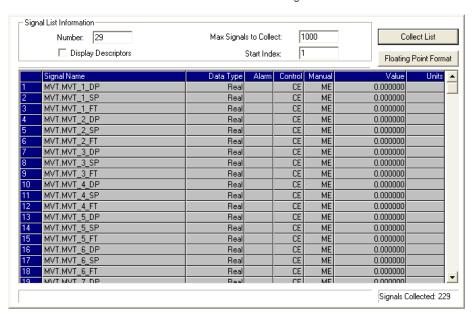


Figure 3-109. List 29

3.8 Al Maintenance

Note: This feature, while still available, has been superceded by the AI Calibration feature. See *Section 3.2.24*.

To access the AI Maintenance page, click the

Al Calibration button on the Measurement tab.

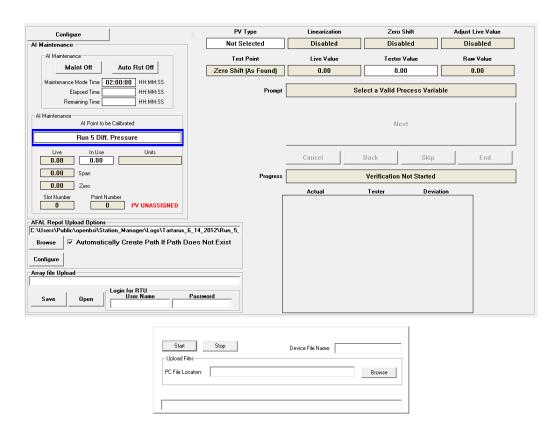


Figure 3-110. AI Maintenance page

Field	Description
Al Maintenance	This section of the screen controls the maintenance mode for the selected AI input.
Maint Off / Maintenance	To disable the maintenance mode, toggle the button to Maint Off. To enable the maintenance mode, toggle the button to Maintenance.
Auto Reset / Auto Rst Off	If Auto Reset is enabled, maintenance mode for the Al input will be disabled automatically after the period set under the Maintenance Mode Auto Reset Timer. If Auto Reset is disabled (Auto Rst Off), maintenance mode for the Al input will never be disabled automatically.

Maintenance Mode Time	The Maintenance Mode Auto Reset Timer is in the format DD
wode illie	HH:MM:SS.S
	Where:
	DD number of days
	HH number of hours
	MM number of minutes SS.S number of seconds (resolution of 10ths)
	Trainbor of occornac (reconation or really)
	The maximum time allowed for the maintenance mode auto reset timer is
	24 20:31:23.9 – (24 Days, 20 hours, 31 minutes, 23.9 seconds)
Elapsed Time	This is the amount of time the AI input has been in maintenance mode.
Remaining Time	When Auto Reset is enabled, this is the time remaining until the maintenance mode is automatically reset.
	When Auto Reset is disabled, this field remains at 00 00:00:00.0.
Al Point to be Calibrated	Select the AI point to be calibrated from the drop down menu.
Live	The live value, coming from the Analog Input.
In Use	The value in use. When maintenance mode is off, this will be the live value. When maintenance mode is on, this value may be overridden by the user.
Units	This will be the units of the variable, assigned from the I/O configuration page.
Span	This will be span of the variable, assigned from the I/O configuration page
Zero	This will be the zero of the variable, assigned from the I/O configuration page.
Slot Number	This is the I/O Slot Number that this point is assigned to.
Point Number	This is the I/O point on the I/O slot that this variable is assigned to.
PV Type	Specify the type of Al variable, for example, differential pressure, pressure, pressure, or other.
Linearization	Shows whether linearization is enabled or disabled for the Al.

Zero Shift	Shows whether zero shift is enabled/disabled for the Al.
Adjust Live Value	Shows whether adjustments for the live AI value are allowed (enabled) or prevented (disabled).
Test Point	Shows the current test point.
Live Value	Shows the live value of the Al.
Tester Value	Enter the tester value to be applied.
Raw Value	Shows the raw value in use.
Prompt	Shows a prompt message related to the current step.
Next	Click here to proceed to the next step.
Cancel	Click here to cancel the current step.
Back	Click here to go back to the previous step.
Skip	Click here to skip the current step.
End	Click here to go to the end of the linearization process.
Progress	Shows the progress of the linearization process.
Zero Shift (AF) Actual	Shows the ZS AF actual value read.
Zero Shift (AF) Tester	Shows the ZS AF tester value applied.
Zero Shift (AF) Deviation	Shows the ZS AF difference between the actual value and the tester value.
Zero Actual	Shows the zero actual value read.

Zero Tester	Shows the zero tester value applied.
Zero Deviation	Shows the difference between the zero actual value and the
	zero tester value.
Mid Point 1 Actual	Shows the mid point 1 actual value read.
Mid Point 1 Tester	Shows the mid point 1 tester value applied.
Mid Point 1	Shows the difference between the actual mid point 1 value
Deviation	and the tester mid point 1 value.
Mid Daint 2 Actual	Shows the mid point 2 actual value read.
Wild Point 2 Actual	Shows the thid point 2 actual value read.
Mid Point 2 Tester	Shows the mid point 2 tester value applied.
Mid Point 2 Deviation	Shows the difference between the actual mid point 2 value and the tester mid point 2 value.
Deviation	and the tests mid point 2 value.
Mid Point 3 Actual	Shows the mid point 3 actual value read.
Mid Point 3 Tester	Shows the mid point 3 tester value applied.
Mid Point 3	Shows the difference between the actual mid point 3 value
Deviation	and the tester mid point 3 value.
Full Scale Actual	Shows the full scale actual value read.
Full Scale Tester	Shows the full scale tester value applied.
	••
Full Scale	Shows the difference between the full scale actual value and
Deviation	the full scale tester value.
7 Obits Astro-1	Chave the way shift actual value ward
Zero Shift Actual	Shows the zero shift actual value read.
Zero Shift Tester	Shows the zero shift tester value applied.
Zero Shift	Shows the difference between the zero shift actual value and the zero shift tester value.
Deviation	the Zero Silit tester value.
-	

Save	Click here to save the calibration array.
Open	Click here to open the specified calibration array and load it.
Configure	Click here to specify configuration parameters for Al maintenance. See <i>Al Configuration</i> page.
Login for RTU	
User Name	Specify a valid user name for using the Load/Save utility.
Password	Specify the password for the user identified in User Name .
Start	This starts the file transfer.
Stop	This aborts the file transfer. Any partial file will remain on the PC.
Device File Name	This is the name of the file to be transferred from the ControlWave to the PC. Only one file can be transferred at a time
Upload Files	
PC File Location	In Upload mode, this is the destination path on the PC where the file uploaded from the ControlWave will be sent. If not set, the default OpenBSI installation directory will be used as the location. You can use the Browse button to specify the location.

3.8.1 Al Configuration

You click the **Configure** button on the AI Maintenance screen to bring up the AI Configuration page.

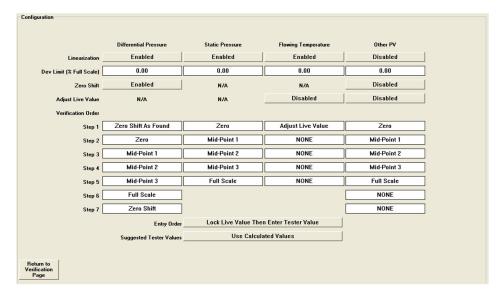


Figure 3-111. AI Configuration page

Field	Description
Linearization Enabled / Disabled	This button shows the current state for linearization. When you click the button you toggle the state.
	Click Disabled to activate the linearization function. The button now displays Enabled .
	Click Enabled to turn off the linearization function. The button now displays Disabled .
Dev Limit (% of Full Scale)	Set the deviation limit here.
Zero Shift	This button shows whether zero shift is enabled or disabled for this process variable (if applicable). When you click the button you toggle the state.
	Click Disabled to activate zero shift for this process variable. The button now displays Enabled .
	Click Enabled to turn off zero shift for this process variable. The button now displays Disabled .
Adjust Live Value	This button shows whether adjustments to the live value are enabled or disabled for this process variable (if applicable). When you click the button you toggle the state.
	Click Disabled to allow adjustments to the live value for this process variable. The button now displays Enabled .

	Click Enabled to prevent adjustments to the live value for this process variable. The button now displays Disabled .
Verification Order Step <i>n</i>	Use these fields to select the order in which various points along the scale for the Al are verified. Depending upon the process variable you can have up to seven steps for the verification.
Entry Order	This button lets you set the entry order for all process variable types. The button displays the current choice; you toggle the choice by clicking the button. Choices for entry order are: Lock Live Value then Enter Tester Value -or- Enter Tester Value then Lock Live Value.
Suggested Tester Values	This button lets you specify whether the application should use tester values calculated base on the zero and span, or, instead, use the values from the last test performed. The button displays the current choice; you toggle the choice by clicking the button.
Return to Verification Page	Click this button to go back to the verification page.

Chapter 4 – Viewing Historical Data (Historical Tab)

This chapter discusses how you can view the historical data that the Station Manager collects. This includes audit data, archive data, and various logs.

In This Chapter

4.1	Historical Tab	4-1
4.2	View Local Archives	
	4.2.1 Selecting Logs to View	
4.3	View Audit Log	
_	4.3.1 Data Storage Parameters dialog box	
	4.3.2 Search Data Collection Criteria dialog box	
4.4	Local History Analog Log	
4.5	List 29	
4.6	Collect Local Logs	
	4.6.1 Selecting Archives or Audit for Collection	
	4.6.2 Collecting a Single Archive or Audit	
	4.6.3 Collecting Multiple Archives	
	4.6.4 Log Collection Parameters	
4.7	User Configurable Archive	
4.8	Local History Digital Log	
4.9	Archive Units Settings	
	•	

4.1 Historical Tab

Click the Historical tab to display the historical data and logs you can view. We'll discuss each of these in the sections that follow:

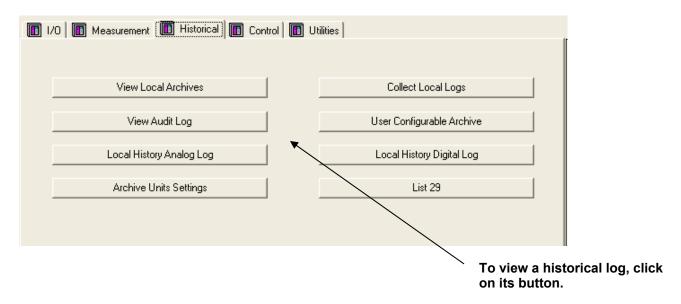


Figure 4-1. Historical Tab in Station Manager

4.2 View Local Archives

Note: To collect the Archives for storage on the PC hard drive, it is recommended that the Collect Local Logs function be used.

The Station Manager controller maintains Hourly Archives (Logs) for each meter run and each gas chromatograph stream. The number of archives varies based on the number of meter runs. To view the Archive, select the Measurement tab, and click on the

View Local Archives button.

The following screen opens:

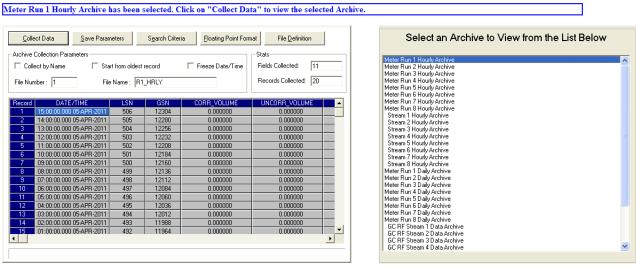


Figure 4-2. Selecting a Log to View

4.2.1 Selecting Logs to View

To view the desired archive:

- 1. Click on the description for the desired archive in the Select an Archive from the List Below box. This updates the File Number in the Archive Collection Parameters field.
- 2. Now click the [Collect Data] button. (See Figure 4-2.)

Record	ACC_ENERGY	AVG_STATIC_PRESS	AVG_TEMPERATURE	AVG_DIFF_PRESS	AV0
1	0.000000	0.000000	0.000000	0.000000	
2	0.000000	0.000000	0.000000	0.000000	
3	0.000000	0.000000	0.000000	0.000000	
4	0.000000	0.000000	0.000000	0.000000	
- 5	0.000000	0.000000	0.000000	0.000000	
- 6	0.000000	0.000000	0.000000	0.000000	
7	0.000000	0.000000	0.000000	0.000000	
- 8	0.000000	0.000000	0.000000	0.000000	
9	0.000000	0.000000	0.000000	0.000000	
10	0.000000	0.000000	0.000000	0.000000	
- 11	0.000000	0.000000	0.000000	0.000000	
12	0.000000	0.000000	0.000000	0.000000	
13	0.000000	0.000000	0.000000	0.000000	
14	0.000000	0.000000	0.000000	0.000000	
15	0.000000	0.000000	0.000000	0.000000	

Figure 4-3. Archive

4.3 View Audit Log

Note: To collect the Audit Trail for storage on the PC hard drive, it is recommended that the Collect Local Logs function be used.

The Station Manager controller maintains an Audit Trail. The audit trail includes entries any time a configuration change is made that could affect measurement.

To view the Audit Trail:

- 1. Select the "Measurement" tab, and click the View Audit Log button.
- **2.** The following screen will appear. Click on the [Collect Data] button.
- **3.** This will collect the first set of records (typically 24 records). To view additional records, scroll down using the vertical scroll bars

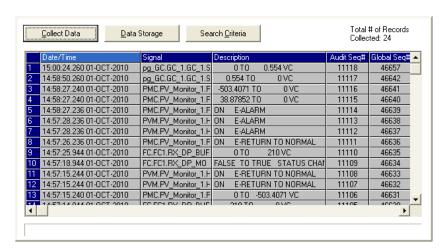


Figure 4-4. Audit Log

The buttons associated with audit collection are.

Field	Description
Collect Data	To view the current entries in the Audit Trail, click on the Collect Data button.
Data Storage	To store the collected data, click on the Data Storage button.
	Note: It is recommended that the "Collect Local Logs" function be used to collect and store Audit Trail data to the PC hard drive, rather than this function, since more features are available for collecting, storing, and viewing the data.

Search Criteria Click this button to specify search criteria.

4.3.1 Data Storage Parameters dialog box

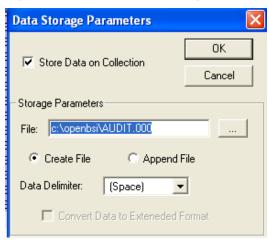


Figure 4-5. Data Storage Parameters dialog box

Field	Description
Store Data on Collection	When this box is checked, the data will be stored automatically on collection. This means as additional data is collected by scrolling down using the vertical scroll bar, this data is automatically written to the PC hard drive.
Storage Parameters	
File	Define the storage location and file name for the collected data.
Create File	If Create File is selected, a new file will be created every time data is collected. If the name of the file is one previously created, all previous data will be lost.
Append File	If Append File is selected, newly collected data will be added to previously collected data, in the file of the same name.
Data Delimiter	The following data delimiters may be selected – Space, Comma, or Semicolon. This will be the delimiter used to separate the data fields (Date/Time, Signal, Description, Audit Seq#, Global Seq#).
Convert Data to Extended Format	Not applicable

4.3.2 Search Data Collection Criteria dialog box

The following search criteria may be applied:



Figure 4-6. Select Data Collection Criteria dialog box

Field	Description	
Records	The user may elect to collect to view Alarms and Events, Events Only, or Alarms Only	
Search Method		ay elect to Collect All Available or may specify the time period.
	Start Date	Enter the start date here. All records that occurred on or after that date will be collected.
	Period	The user may specify a period from which to collect the data. The available selections are Today, This Week, or This Month.
<u>Direction</u>	Oldest entry	ay be collected and viewed from the y to the Newest entry or from the Newest Oldest entry.

4.4 Local History Analog Log

The Local History Analog Log performs an on-demand trend for up to ten analog process variables. You can select the items to log from the Process Monitor List (List 29). You can modify this list, as needed. You can also set the logging interval and the number of log records to collect after the log trigger event.

Once logging parameters are set, logging automatically begins at the selected sampling interval and continues until the selected trigger item generates a log event. Logging then continues for the selected number of post-event records, and then stops. You can manually reset the log event trigger to initiate a new cycle.

To configure the Local History Analog Log, click the button on the Historical tab of the Station Manager. This log is to archive real variables only. If you want to archive Boolean variables, see *Section 4.8*.

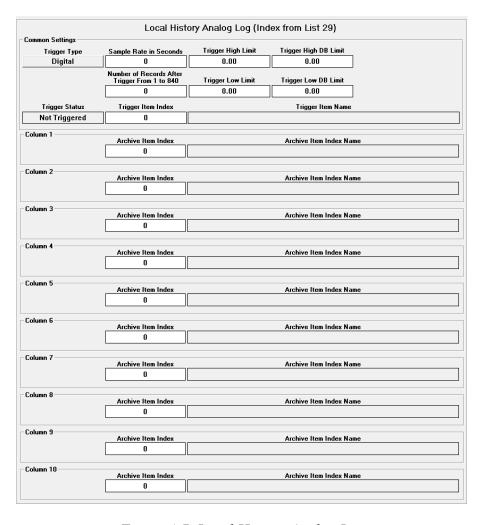


Figure 4-7. Local History Analog Log

The fields to configure this are:

Field	Description
Common Settings	The settings in this section are common to all of the analog variables to be stored. These settings pertain to the trigger mechanism that starts archiving the data and the frequency and amount of data to be stored.
Trigger Type	This selects either digital or analog. If digital is selected, a Boolean variable triggers the log event where 0.0000 = FALSE and any value greater than 0.0000 = TRUE. If analog is selected, an analog variable triggers the log event based on the Trigger High Limit/Trigger Low Limit and the associated high and low deadbands.
Sample Rate in Seconds	Specifies how often the specified variables are logged once triggered. This ranges from 2 to 60. For example, if a rate of 2 is entered then the variables will each be sampled every 2 seconds until the specified number of records is reached.
Trigger High Limit	This value sets the upper threshold for the selected trigger item to generate a log event. When the trigger item value exceeds the trigger high limit, a log event is generated.
Trigger High DB Limit	This value, when subtracted from the trigger high limit value, sets the threshold that releases the trigger item from the log event condition. In order for a new log event to occur, the trigger item value must drop below the release threshold first. If the trigger item value stays above the release threshold, then no new log event can occur.
Trigger Low Limit	This value sets the lower threshold for the selected trigger item to generate a log event. When the trigger item value drops below the trigger low limit, a log event is generated.
Trigger Low DB Limit	This value, when added to the trigger low limit value, sets the threshold that releases the trigger item from the log event condition. In order for a new log event to occur, the trigger item value must rise above the low release threshold first. If the trigger item value stays below the low release threshold, then no new log event can occur.
Number of Records After Trigger From 1 to 840	This value sets the number of log entries that will occur after a log event is triggered. When this number of log numbers is reached, logging stops automatically. The trigger status must then be reset in order to generate a new logging cycle.

Trigger Status	This shows the current status of the log event trigger. Note that logging begins as soon as the user completes the configuration process (select items to be logged, select trigger item, set number of records and sampling interval). Logging therefore occurs before a log event is triggered. Once the archive has been triggered it will not automatically trigger again until the trigger is reset. This can be done by setting the following variable to true from within DataView:
	LHA.TRIGGER_RESET
Trigger Item Index	Set this to the item number in list 29 that is the trigger item for generating a log event.
Trigger Item Name	This field shows the variable name of the selected trigger item.
Column n	The items in these sections contain settings and information about each of the columns, where n is 1 of 10 possible column numbers.
Archive Item Index	This specifies the item number for the variable in list 29 to be archived in the column. If the desired item is not in list 29, it can be added using the online edit function. You can select up to ten items.
Archive Item Index Name	This field shows the variable names of the items to be logged.

4.5 List 29

For information on List 29, please see *Section 3.7*.

4.6 Collect Local Logs

One or more Archives, plus the Audit Trail, can be selected for collection. From the Station Manager Measurement tab, click the Collect Local Logs button to begin.

4.6.1 Selecting Archives or Audit for Collection

To select an Archive or the Audit trail for collection click on the desired description in the log collection control. The number of logs/archive varies depending upon the number of meter runs.

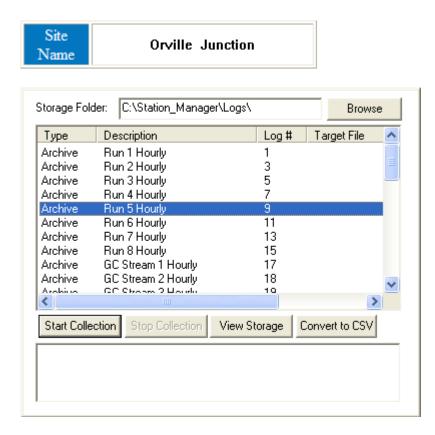


Figure 4-8. Selecting Logs for Collection

4.6.2 Collecting a Single Archive or Audit

To collect one of the Archives, or the Audit Trail, listed for collection, highlight the desired item in the list, then click on the **[Start Collection]** button.

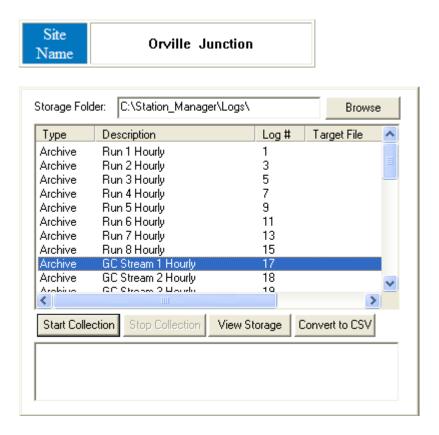


Figure 4-9. Selecting a Single Log for Collection

4.6.3 Collecting Multiple Archives

To collect more than one Archive, and/or the Audit Trail, hold down the **[Ctrl]** key to highlight multiple items, and then click on the "Start Collection" button.

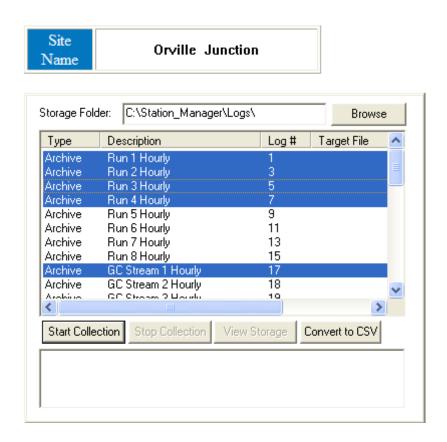


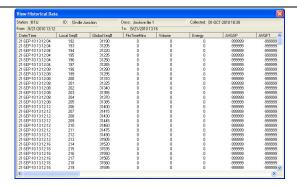
Figure 4-10. Collecting Multiple Archives

4.6.4 Log Collection Parameters

There are several different log collection parameters and read-only fields which govern or report how the log collections operate.

Field	Description
Site Name	The Site Name is defined by the user on the Site Configuration screen, via the Status/Configuration menu item. The Site Name is used as the base name for the files created by the collection and conversion processes.
Storage Folder	By default, the storage folder for the Archive collections is C:\Station_Manager\Logs.
	This may be changed by clicking on the Browse button, and locating a different folder. However, this change is not permanent, and the next time the "Collect Local Logs" screen is opened, the Storage Folder will revert to C:\Station_Manager\Logs.

Туре	The type of log, either Audit or Archive.		
Description	A description of the log.		
Log#	The log number is populated automatically, when the Archive or Audit is selected from the "Hourly Logs" table		
Target File	The Target File name will be automatically created.		
	The file base name will be the Site Name (in this case "Unamed Site") and the extension will be one of the following:		
	Rnn Where R indicates an Archive for a measurement run, and nn indicates the run number.		
	Gnn Where G indicates an Archive for a gas chromatograph stream, and nn indicates the stream number		
	AUD Represents the Audit Trail collection.		
	If a file of the same name exists in the Storage Folder, any new Archive data collected since the last Archive data was collected will be appended to the file. The Archive Data will not include duplicate data.		
	However, whenever the Audit Trail is collected, the entire audit trail is collected. If there is an existing Audit Trail file on the PC hard drive, the data from this collection is appended to the existing file. There may be duplicate data in the .AUD file.		
Start Collection	Click here to start the log collection.		
Stop Collection	While an Archive or the Audit Trail is being collected, the user may stop the collection by clicking on the Stop Collection button.		
	The following messages will appear in the message window:		
View Storage	It is possible to view the stored data locally.		
	Select the item that includes local data, and then click on "View Storage" button. Note: Only one item may be selected for the View Storage feature to be available.		
	A screen similar to this one will appear:		



Convert to CSV

It is possible to convert the stored data to a comma separated variable (CSV) file.

Select the item that includes local data, and then click on "Convert to CSV" button. **Note**: that only one item may be selected for the Convert to CSV feature to be available.

A message will appear in the message window indicating that the conversion is complete.

A file with an extension of CSV will now be located in the same folder as the stored data. The file name will be of the format

sitename_originalextension.CSV

Where:

sitename is the Site Name.

originalextension is the original extension (Rnn, Gnn, or AUD)

Collection Status Messages

While collections are in progress, status messages will be posted in the message window. When the collection is complete, the message "Log Collection Complete will appear.

GC Stream 1 Hourly - Collection cancelled by the user Cancelling log collection

GC Stream 1 Hourly - Collecting

GC Stream 1 Hourly - Collecting - Column Names

.

4.7 User Configurable Archive

To configure the user-configurable archive click the

User Configurable Archive button on the Historical tab of the Station Manager.

The Generic Analog Archive stores the instantaneous, maximum, and minimum value for each of the eight selected List 29 variables.

This is an hourly archive that, by default, is set up to save the last 15 days worth of data.

The variables to be archived are user selected by clicking in the first **Column***x* box and entering an integer representing the position in List 29 of the first variable you want to archive. Press the **[Enter]** key to save your entry. Column 1 of the user configurable archive will log data for this variable. Repeat this process to configure up to eight columns.

Once an index has been set in the left column, the variable name for that item will be displayed in the right column.

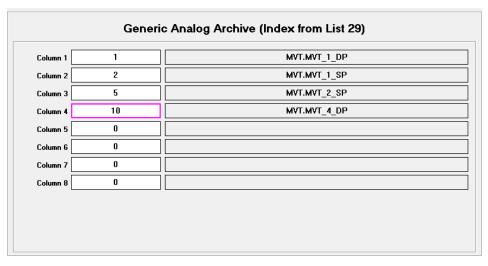


Figure 4-11. User Configurable Archive

4.8 Local History Digital Log

To configure the Local History Digital Log, click the Local History Digital Log button on the Historical tab of the Station Manager.

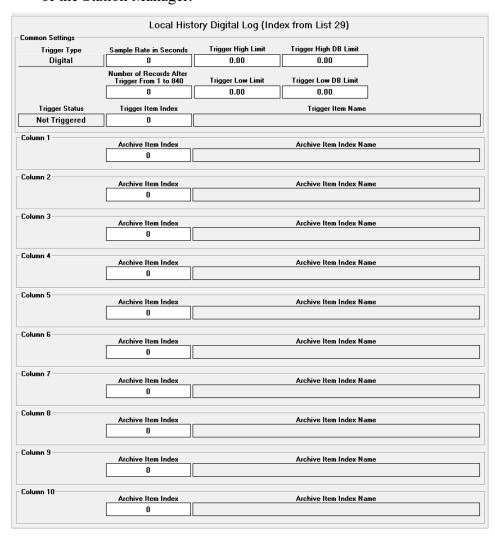


Figure 4-12. Local History Digital Log

The fields to configure this are:

Field	Description
Common Settings	The settings in this section are common to all of the analog variables to be stored. These settings pertain to the trigger mechanism that starts archiving the user specified data and the frequency and amount of data to be stored.
Trigger Type	This can be either digital or analog. If digital is selected, you would typically use a Boolean type variable to trigger data storage. If analog is selected, you would typically use an analog variable to trigger the archiving of the specified data.

Sample Rate in Seconds	Specifies how often the specified variables are to be sampled once triggered. For example, if a rate of 2 is entered then the variables will each be sampled every 2 seconds until the specified number of records is reached.	
Trigger High Limit	When the Trigger item exceeds this value for longer than the High DB Limit, archiving begins for the specified items. For digital triggers where you wish to initiate archiving on the transition from "True to False" this value should be set to .5.	
Trigger High DB Limit	This is the amount of time in seconds that the variable specified by the Trigger Item index must exceed the Trigger High Limit to initiate archiving of the specified items.	
Trigger Low Limit	When the Trigger Item is less than the value set here for longer than the specified Trigger Low DB Limit then archiving will begin. For digital triggers where you wish to initiate archiving on the transition from "True to False", this value should be set to .5.	
Trigger Low DB Limit	This is the amount of time in seconds that the variable specified by the Trigger Item Index must be less than the Trigger Low Limit to initiate archiving of the specified items.	
Number of Records After Trigger From 1 to 840	This is the number of records to be stored after archiving has been initiated.	
Trigger Status	This shows whether or not the archiving has been triggered. Note that once the archive has been triggered it will not automatically trigger again until the trigger is reset. This can be done by setting the following variable to true from within DataView:	
	LDA.TRIGGER_RESET	
Trigger Item Index	This common setting sets the index for a list 29 item. This is the variable to be used as the trigger to initiate archiving of the specified variables.	
Trigger Item Name	Once the Trigger Item Index is specified, this textbox will display the variable name of the selected Trigger Item.	
Column n	The items in these sections contain settings and information about each of the columns, where n is 1 of 10 possible column numbers.	
Archive Item Index	This specifies the list index from list 29 for the item to be archived in the column. If the desired item is not in list 29, it can be added using the online edit function.	
Archive Item Index Name	Once an Archive Item Index is selected, this text box will show the variable name for the selected Item to be archived.	

Issued: February 2023

4.9 Archive Units Settings

The Archive Units page allows you to set the engineering units used in archive files.

To configure the archive units, click the button on the Historical tab of the Station Manager.

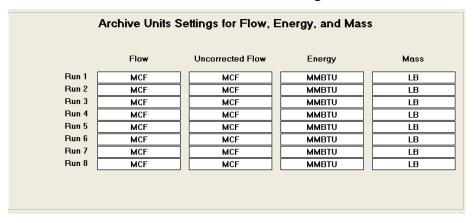


Figure 4-13. Archive Units

Select archive units for flow, uncorrected flow, energy, and mass for each meter run.

Note: Any changes in archive units take effect at the next archive interval. For example, if you change units, the hourly archive will not have the new units for the current hour, but they will be used for the next hour, and all subsequent hours.

Chapter 5 – Configuring Station Control, Meter Run/Valve Staging, and PID Control (Control Tab)

This chapter discusses configuring the station control, meter run staging, meter run ranking, valve staging, and PID tuning. This is accomplished from the Station Manager's Control tab.

In This Chapter

5.1	Control Tak	o	5-1
5.2		note Settings	
5.3	Remote Co	ontrol Valves	5-5
5.4	Station n		5-9
	5.4.1	Station <i>n</i> - Overview tab	
	5.4.2	Station <i>n</i> - Configuration tab	5-12
	5.4.3	Station <i>n</i> - Meter Protection Config tab	
	5.4.4	Station <i>n</i> – Local Settings tab	5-14
	5.4.5	Station <i>n</i> – Control Valves tab	5-15
	5.4.6	Enabling Station Control	5-18
	5.4.7	Overriding Remote Setpoint Execution	5-19
5.5	Meter Run	Staging	5-21
	5.5.1	Clearing and Resetting Meter Staging Errors	5-28
5.6	Process Mo	onitor Control	5-29
	5.6.1	Process Monitor Control Configuration	5-31
5.7	Process Va	alue Monitor	5-35
	5.7.1	Process Value Monitor	5-37
5.8	GP PIDs		5-41
5.9	PID Tuning		5-43

5.1 Control Tab

Click the Control tab to configure remote control valves, lockouts, and meter run staging. We'll discuss these in the sections which follow.

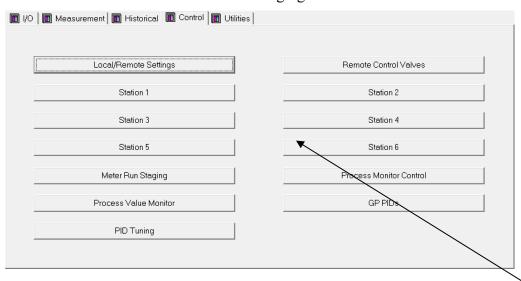


Figure 5-1. Control Tab in Station Manager

Click on the button to configure a particular control function

5.2 Local / Remote Settings

Local/ Remote mode is used to lock out control either locally (onsite using TechView), or remotely (via SCADA).

Click the Local/Remote Settings button on the Station Manager Control tab.

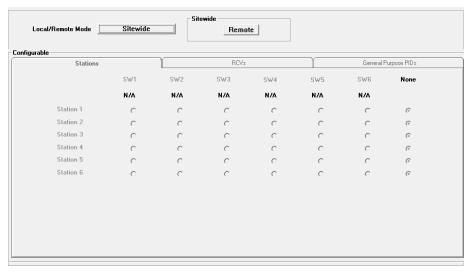
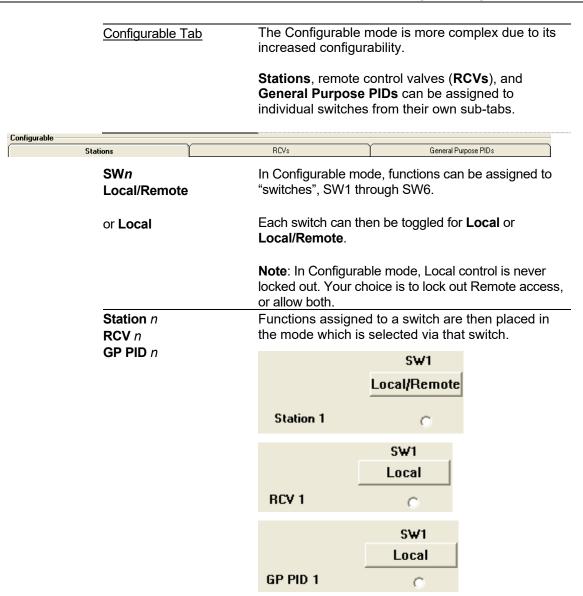


Figure 5-2. Control Tab - Local/Remote Settings

Local / Remote Settings has two available modes – Sitewide, and Configurable.

Field	Description
Local/Remote Mode	The mode is selected using the button that says either Sitewide or Configurable .
Sitewide / Configurable	The text displayed on the button indicates which mode it is in.
	The Sitewide mode is simply a universal lockout.
	The Remote mode activates additional fields; see the <u>Configurable</u> fields.
Sitewide	The button in the box labeled Sitewide is used to select "Local" or "Remote."
Local / Remote	If "Remote" is displayed, then setpoints can be changed remotely (SCADA), and local changes are locked out.
	If "Local" is displayed, then setpoints can be changed locally via TechView, but no control is allowed remotely via SCADA.
	This is the only item to configure in sitewide mode. The switch assignments and tabs below are for Configurable mode and are grayed out and not available in Sitewide mode. The Sitewide Local / Remote button is grayed out and cannot be used in Configurable mode.



In the figure, below, Stations 1-6 are assigned to Switches 1-6. This is for the purposes of this example, however any item can be assigned to any switch, and multiple items can be assigned to the same switch.

Switch 1 and 3 are configured as "Local", indicating that only Local control is allowed – Remote control is locked out. The others are allowing control both locally and remotely.

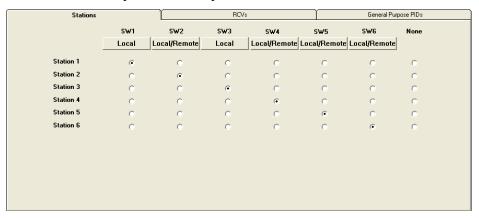


Figure 5-3. Stations sub-tab in Local/Remote Settings

5.3 Remote Control Valves

When you click the Remote Control Valves button on the Control tab, Station Manager shows tabs for groups of valves. Station Manager displays three valves on the screen at one time.

Note: For RCV control to function, **Control Enable** on the Process Monitor Control Configuration and Process Value Monitor Configuration pages must be enabled for the associated alarm.

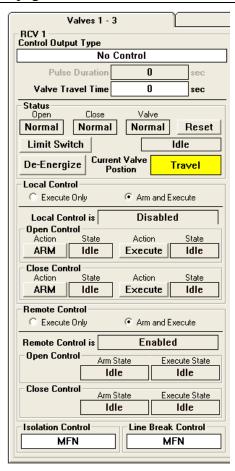


Figure 5-4. Configuring a Valve

Field	Description
RCVn	This top section is for configuring the physical characteristics of the valve.
Control Output Type	Choices are No Control (disabled), Single Maintained, Dual Maintained, and Dual Pulsed:
	Single Maintained Output This option should be chosen when a single output is energized to change the position of the valve.

	Dual Maintained Output This option should be chosen when there are two outputs, one to open the valve, and the other to close the valve, and these outputs should be maintained, even after the appropriate limit switch indicates that the valve is in the demanded position.
	Dual Pulsed Output This option should be chosen when there are two outputs, one to open the valve, and the other to close the valve, and these outputs should be pulsed until the appropriate limit switch indicates that the valve is in the demanded position. The "Limit Delay" setting can be used to maintain a pulse for some time after the limit switch is made.
Pulse Duration	This is the amount of time to pulse the output. This setting only applies if the "Control Type" is "Dual Pulsed Outputs", and may only be changed when this control type is selected.
Valve Travel Time	This field is the amount of time, in seconds, it takes the valve to fully travel from the open-to-close or close-to-open position. This entry may be changed from this screen.
Status	
Open, Close, Valve	Open, Close, and Valve refer to whether the valve is failing limit switches. If the valve is configured as blind, these are not meaningful.
Reset	Reset is used to clear limit switch failures.
Limit Switch / Blind	This button selects between Limit Switch Feedback and Blind (no limit switch feedback)
Current Valve Position	The box labeled Current Valve Position will display Travel, Open, Closed, Unknown, or Fail
Open / Closed / Idle Error	This displays the state of the valve command being sent to the outputs. The states are: Open, Closed, Idle, or Error. Prior to receiving any commands, this field reads Idle. In the case of maintained outputs, once a command is given it remains in either Open or Closed state until the opposite command is issued. In the case of pulsed outputs, when a new command is given this field reads Open or Closed (depending on the command) while the output pulse is active and returns to Idle when the output is deenergized.
De-Energize	Click this to immediately de-energize all signals to the valve.
Local Control	

Execute Only, Arm and Execute	Local and Remote can both be configured to be Execute Only or Arm and Execute . If Arm and Execute is selected, then both Arm and Execute must be activated within 5 seconds of each other. After 5 seconds, they will de-activate.
Local Control is	Shows whether Local Control is Enabled or Disabled.
Open Control	
Action ARM	Click here to initiate the ARM signal. After 5 seconds this deactivates.
State Idle / Armed	Displays the current state of the ARM function.
Action Execute	Click here to initiate an Execute signal After 5 seconds this deactivates.
State Idle / Execute	Displays the current state of the Execute function.
Close Control	
Action ARM	Click here to initiate the ARM signal. After 5 seconds this deactivates.
State Idle / Armed	Displays the current state of the ARM function.
Action Execute	Click here to initiate an Execute signal. After 5 seconds this deactivates.
State Idle / Execute	Displays the current state of the Execute function.
Remote Control	
Execute Only, Arm and Execute	Local and Remote can both be configured to be Execute Only or Arm and Execute . If Arm and Execute is selected, then both Arm and Execute must be activated within 5 seconds of each other. After 5 seconds, they will de-activate.
Remote Control is	Shows whether Remote Control is Enabled or Disabled.
Open Control	
Arm State	Displays the current state of the ARM function
Execute State	Displays the current state of the Execute function
Close Control	
Arm State	Displays the current state of the ARM function
Execute State	Displays the current state of the Execute function
Isolation Control	You can override valve commands by station isolation (see <i>Section 5.4.2</i>). Select which value should drive the valve for isolation. Choices are MFN (math function), Station 1, Station 2, Station 3, Station 4, Station 5, Station 6, PVM1, PVM2, PVM3, and PVM4. If you choose MFN, you must ensure the desired RCV isolate variable RC.RCx_ISO (where x=RCV number) exists in List 29 and you must configure the math function to write to the index of that variable in List 29. If you choose one of the PVMs, the PVM's output triggers and clears isolation for the assigned RCV; you can assign multiple RCVs to the same PVM. Using this mode, the valve can be opened/close manually while the triggering condition occurs. If you don't want to use isolation control, choose "Disabled."

Linebreak Control

(Station Manager 8-Run only)

You can override valve commands by station isolation (see Section 5.4.2). Select which value should drive the valve for isolation. Choices are MFN (math function), Station 1, Station 2, Station 3, Station 4, Station 5, Station 6, PVM1, PVM2, PVM3, and PVM4. If you choose MFN, you must ensure the desired RCV LB variable RC.RCx_LB (where x=RCV number) exists in List 29 and you must configure the math function to write to the index of that variable in List 29. If you choose MFN, MFN1 will drive RCV1, MFN2 will drive RCV2, etc. If you choose one of the PVMs, the PVM's output triggers and clears isolation for the assigned RCV; you can assign multiple RCVs to the same PVM. Using this mode, the valve **cannot** be opened/close manually while the triggering condition occurs. If you don't want to use linebreak control, choose "Disabled."

Station n 5.4

The Station *n* page includes three primary controls and five override controls. Each of these controls can be individually configured and individually enabled.

Primary Controls Primary controls are always active and will open or close the valve as necessary to achieve and maintain the setpoint. At least one primary control must be enabled.

The three primary controls are:

- Flow/Energy Control
- Pressure Control
- Configurable Control

Override Controls Overrides are only active when the setpoint is exceeded. At that point, they take control from the primary controls until the process variable is back within acceptable range. Once that occurs, control is returned to the primary controls.

The five override controls are:

- Maximum Allowable Operating Pressure (MAOP)
- Minimum Outlet Pressure
- Maximum Outlet Pressure / Configurable
- Minimum Inlet Pressure / Configurable
- Meter Protection per run

Note: Minimum outlet pressure forces the valve farther open and takes priority over every other control except MAOP. All other overrides force the valve farther closed.

General Configurable controls can use the default setup, or can select a process variable from an AI or from List 29.

> All transfers of control are bumpless. PID tuning may make transfers appear to be abrupt, but this is a tuning issue and may in fact be desirable.

> Flow control and Energy control are mutually exclusive – only one of the two can be enabled at a given time.

Meter protection is on a per-run basis and is dependent upon the type of measurement run. The process variable will be DP for a differential run, and uncorrected flow rate for a linear run.

All other controls, including disabled controls, are placed in "track" mode to allow bumpless transfer if it later becomes the active control.

Bi-directional

If a station is identified as bidirectional, the inlet and outlet pressures can be configured to be reversed when the station is reversed. If Station 1 is bidirectional, then Station 2 is the reverse station, but only Station 1 must be configured. This is also true for Stations 3 and 4 and Stations 5 and 6.

Scheduled Setpoints

Additionally, flow and energy setpoints can be programmed to be applied at a future time. Up to twelve unique future setpoints can be programmed. The format for time and date for the setpoint to be applied is HHMM (hours,minutes), and MMDD (month,day).

Manual Override

Station control allows bumpless transfer in and out of manual override. While in manual override, a valve can be placed at a desired percent open. Upon return to automatic control, the control starts at the current valve position.

5.4.1 Station *n* - Overview tab

To configure station control, go to Station Manager's Control tab and click the **Station** *n* button corresponding to the station you want to configure. The following screen should appear:

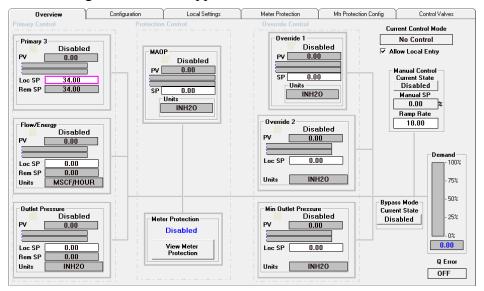


Figure 5-5. Station Overview tab

This first screen is an overview which will indicate which loop is currently in control and displays current setpoints and live values.

In addition, it includes the following fields:

Field	Description	
Meter Protection		
View Meter Protection	Selecting this changes the active tab to Meter Protection	
Current Control Mode	This field Indicates which PID loop is in control. If the demand is calling for either full open or full closed, this field reads Max / Min Output.	
Allow Local Entry	Check this box to allow entry of setpoints and the ramp rate on this page. De-select the box to prevent accidental entries on this page.	
Manual Control		
Disabled / Enabled	This button enables or disables manual control of the station control demand. Transfer is bumpless.	
Manual SP	Enter the desired station demand when manual control is enabled. This field shows the current station demand when manual control is disabled.	
Ramp Rate	Specify the desired rate of change when a manual setpoint is entered. Units are in percent demand per second.	
Bypass Mode Current State Enabled / Disabled	If you enable the Maintenance Bypass option (from the Local Settings tab) and then enable the Bypass here and place the station into Maintenance Mode, Station Manager does not place outputs under manual control, instead the following occurs:	
	 Manual control is disabled; however, you can enable it if desired. The primary control pressure loop continues to execute and automatically controls the station control valve. 	
	 All other loops track and cannot override the primary control pressure loop. 	
	 After you exit Maintenance Mode, you must disable the Maintenance Bypass option to restore other loops to normal operation. 	
	Note: If you manually disable the primary control pressure loop, or Station Manager automatically disables it because of a Q (questionable) error, station control locks into manual mode at the current output value, and you must disable manual control after you exit Maintenance Mode to return to automatic operation.	
	Note: When you finish maintenance, before you disable the Bypass , make sure the control loop PVs have tracked to the setpoints (SP) to avoid excessive valve movement. Then you can disable the Bypass .	

5.4.2 Station n - Configuration tab

The second tab "Configuration" is the place to begin configuring station control:

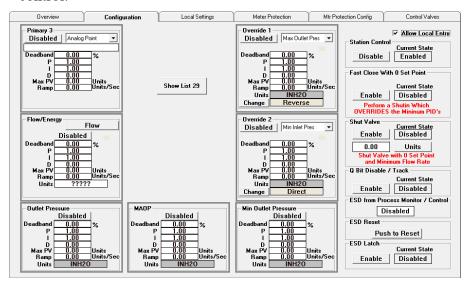


Figure 5-6. Station Configuration tab

Configuring a Loop Configuring each loop follows the same process:

- 1. Check the Allow Local Entry box.
- 2. Set Max PV to the maximum value that could ever be measured the span of the transmitter, or the maximum flow through the station, etc. as appropriate for that loop.
- **3.** Set **Ramp**. This is the **Ramp** rate in units/second that a change to the setpoint will be applied. Leaving the value at 0.0 causes the change to be immediately applied in full rather than ramped.
- **4.** Set **P**, **I**, and **D** settings to desired initial values for tuning.
- **5.** Set **Deadband** to desired value. **Deadband** applies to the loop output. A calculated loop output which does not vary by more than the percent selected here will not change the output.
- **6. Enable** the loop.

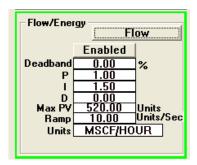


Figure 5-7. Flow/Energy Loop

Repeat this process for each loop that should be controlled. Having completed this, consider some station-wide settings.

Station-wide Settings First, there are several settings on the right side of the "Configuration" page:

> **Enable Fast Close with 0 Set Point** – If enabled, then upon a 0.0 setpoint on Flow, Energy, or Pressure the station will immediately call for 0% open - in other words, a full close.

Shut Valve – If enabled, then upon receiving a 0.0 setpoint on flow or energy, the station begins to close under PID control until the live reading is less than or equal to the value entered in the field. The units of this value can be selected by the button; choices are "units" or "percent". If units are chosen, the field is represented in the units of the PV. If percent is chosen, the field is represented in percent of Max PV. At that time, the station will call for 0% open – in other words, a full close.

Note: The preceding two modes should not both be enabled simultaneously.

Enable Q Bit Disable / Track – If enabled, then a Q-bit (data invalid) signal on a process variable will result in placing the relevant loop into Track mode, thereby disabling it. The loop will be re-enabled upon the clearing of the Q bit. If this is disabled, then the station control continues regardless of the validity of the data.

ESD from Process Monitor / Control – Options are Disabled, and PM&C 1, 2, 3, or 4, PVM 1, 2, 3, or 4, and MFN 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, or 12.. PM&C refers to the Process Monitor Control described in Section 5.5.1; PVM refers to the Process Value Monitor described in Section 5.7; and MFN refers to the Math Function described in Section 6.2. If one of these is selected, then the process monitor control, process value monitor control, or math function can force the station shut if it goes into an alarm state.

ESD Reset If station ESD (Emergency Shut Down) is set to latch, you can click this button to clear the ESD.

If ESD Latch is enabled; and an emergency shut down occurs; the emergency shut down remains in force, even if the alarm condition that caused it clears. If ESD Latch is disabled, when the alarm condition that caused the ESD clears, normal operation resumes.

Note: For station control ESD to function, **Control Enable** on the Process Monitor Control Configuration and Process Value Monitor Configuration pages must be enabled for the associated alarm.

Station *n* - Meter Protection Config tab 5.4.3

Meter Protection loops are configured from their own page via the tab "Mtr Protection Config."

Notes:

- You must check the Allow Local Entry box to enter values on this
- Meter Protection is Enabled/Disabled on a station-wide basis.

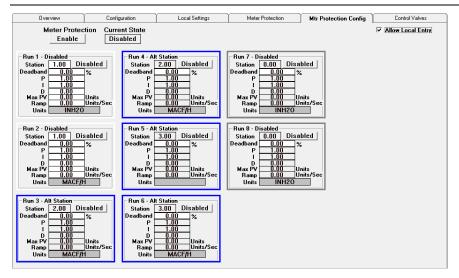


Figure 5-8. Meter Protection Config tab

Station *n* – Local Settings tab

Pressure Configuration

Inlet and Outlet Under the Local Settings tab, Inlet and Outlet pressures can be configured as to their source, and action to take upon detection of reverse flow.

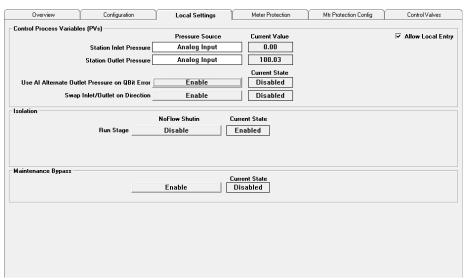


Figure 5-9. Local Settings tab

Field	Description
Control Process Variables (PVs)	

Station Inlet Pressure, Station Outlet Pressure	Choices for Pressure Source are Analog Input, MVT static pressures, or shared values.
Use AI Alternate Outlet Pressure on Qbit Error	If enabled, when the station's primary outlet pressure analog input has a questionable data bit (Qbit) error, the station uses an alternate outlet pressure analog input if that Al does not have a Qbit error. The station operates normally using the alternate Al outlet pressure.
Swap Inlet/Outlet on Direction Enabled / Disabled	If enabled, this will monitor the station for a change in direction of flow. When one is
	detected, it will automatically redirect the live data from Inlet Pressure to now be Outlet Pressure, and vice versa. If disabled, the Inlet data and Outlet data are not swapped upon a direction change.
Allow Local Entry	Check this box to allow entry of values on this page. De-select the box to prevent accidental entries on this page.
Isolation	
Run Stage Noflow Shutin Enabled / Disabled	If enabled, upon a station NoFlow Shutin condition, all run stage valves for this station will be shut.
Remote Control Valve Noflow Shutin Enabled / Disabled	If enabled, upon a station NoFlow Shutin condition, the corresponding Remote Control valve will be shut.
Maintenance Bypass	
Maintenance Bypass Enabled/Disabled	If you enable the Maintenance Bypass feature here, you can then go to the Overview tab to enable/disable the actual bypass used in Maintenance Mode.
	To enable the Maintenance Bypass feature, click the Enable button; the current state changes to Enabled , and the button changes to Disable .
	To disable Maintenance Bypass feature, click the Disable button; the current state changes to Disabled , and the button changes to Enable .

5.4.5 Station n – Control Valves tab

Finally, control valves must be assigned to the station. This is achieved under the "Control Valves" tab.

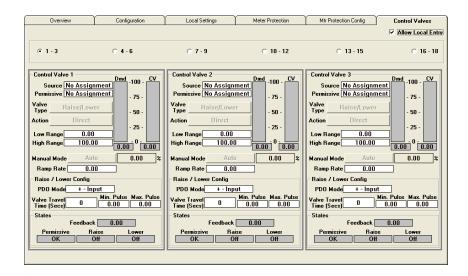


Figure 5-10. Station n Control Valves Sub-tab

There are a total of 18 control valves. Any valve can be assigned to any station, and multiple valves can be assigned to the same station.

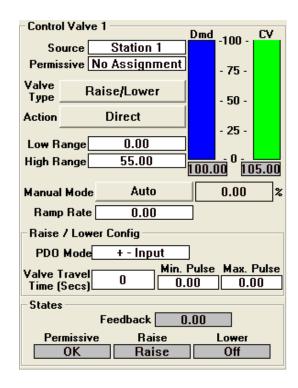


Figure 5-11. Control Valve Configuration

All Valve Types The following fields apply to **all** valve types.

Field	Description
Allow Local Entry	Check this box to allow entry of values on this page. De-select the box to prevent accidental entries on this page.
Source	Choices are Station 1-6 and GPPID 1-3. For information on GPPID, see <i>Section 5.8</i> .

Permissive	Choices are No Assignment and any Run. If No Assignment is selected, the valve is always active. If a Run is selected, then the valve will only operate if the block valve for that run is open. Normally this should be left to No Assignment.
Action	Choices are Direct and Indirect. If direct, then a zero calls for 0% request to be sent to the valve. If Indirect, then a zero calls for 100% at the valve. Another common term for this is Normally Closed and Normally Open.
Low Range, High Range	Low Range and High Range will be discussed in the "Valve Staging" section below.
Ramp Rate	Refers to the allowable rate of change to demand from a valve in %/second.
Manual Mode	Choices are Auto and Manual. When in Manual, the output from the station control is ignored and the valve will be in the position configured in the adjacent field. Transfer into manual mode is bumpless. Transfer out of manual mode will result in the valve immediately moving to the position called for by the station control.
Valve Type	Choices are Raise/Lower and Analog.

Raise/Lower Valves The following fields apply to raise/lower valves.

Field	Description
PDO Mode	Not used if valve is analog. If valve is Raise/Lower, then this defines the type of feedback this valve provides. Choices are + - Input, No Feedback, Limit Switches, and Analog Feedback.
Valve Travel Time (secs)	Not used if valve is analog. If valve is Raise/Lower, then this is a critical setting for the action of the valve and refers to the time it takes for the valve to travel from full shut to full open.
Min Pulse	Not used if valve is analog. If valve is Raise/Lower, then this sets the minimum pulse that will be sent to the valve. All valves have a latency to respond to a signal, and pulses shorter than some duration will not result in an actual valve movement.
Max Pulse	Not used if valve is analog. If valve is Raise/Lower, then this sets the maximum allowable pulse duration. Typically this is set to the travel time, but can be configured to be less if desired.

Valve Staging

Valves can be "staged" through configuration of the Low Range and High Range.

Station Control output always is from 0% to 100% open for the station. However, sometimes multiple valves are configured to act over a portion of the range.

In the figure below, valves 1-3 are assigned to Station 1. Valve 1 is configured to operate over the range 0%-33%, Valve 2 over the range 30% to 66%, and Valve 3 from 60% to 100%.

In this example, the Station Control is calling for 48% open.

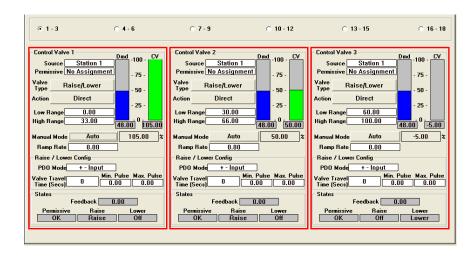


Figure 5-12. Selecting Control Valves

Observe that Valve 1 is full open, Valve 2 is 50% open, and Valve 3 is full shut. You can see that when valves are called to be shut, -5% is applied, and when valves are called to be full open, 105% is applied. This is to ensure full range of action for valves that lose their accuracy over time.

5.4.6 Enabling Station Control

Station Control is Enabled from the button on the Configuration Tab. Setpoints are set from the Overview Tab.



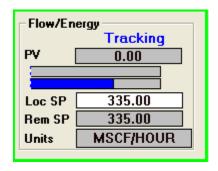


Figure 5-13. Enabling Station Control

Loc SP is for changing the setpoint locally (via TechView). If it is grayed out, then either: a) this loop is not enabled, or b) local control is not allowed.

Section 5.2 discusses Local / Remote lockouts.

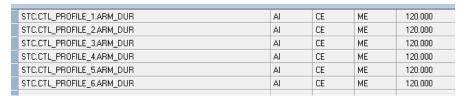
Loop Tuning

It is recommended to tune one loop at a time with the others disabled. The recommended method for tuning is the Ziegler-Nichols method for initial settings. The tuning can then be made less aggressive as desired from that baseline.

5.4.7 Overriding Remote Setpoint Execution

Normally, a two-step process is required for a remote setpoint to be entered in which your SCADA system must issue a command after the setpoint change is issued before the setpoint changes occur.

1. In DataView, specify the number of seconds Station Manager waits before it cancels the attempt to update the setpoint. You should set this long enough so there is time for the SCADA system to issue its command, and for you to manually execute the setpoint change. For example, if you think it will take 2 minutes for the SCADA system to issue the command and for you to manually execute the setpoint change, set the DURATION variable for the loop to 120 seconds. The relevant variables are shown, below:



- 2. Change the remote setpoint value in Station Manager, then do one of the following:
 - Set the execute variable for the Station to TRUE. **Note**: If you do not do this within the DURATION specified in Step 1, Station Manager ignores your setpoint change.

STC.CTL_PROFILE_1.EXECUTE	CE	ME	OFF
STC.CTL_PROFILE_2.EXECUTE	CE	ME	OFF
STC.CTL_PROFILE_3.EXECUTE	CE	ME	OFF
STC.CTL_PROFILE_4.EXECUTE	CE	ME	OFF
STC.CTL_PROFILE_5.EXECUTE	CE	ME	OFF
STC.CTL_PROFILE_6.EXECUTE	CE	ME	OFF

Or, set the execute variables for individual PID loops to TRUE.
 Note: If you do not do this within the DURATION specified,
 Station Manager ignores your setpoint change.

Relevant variables for energy PID loops are shown, below:

1	STC.Ctl_profile_1.Energy_Exct	CE	ME	OFF
2	STC.Ctl_profile_2.Energy_Exct	CE	ME	OFF
3	STC.Ctl_profile_3.Energy_Exct	CE	ME	OFF
4	STC.Ctl_profile_4.Energy_Exct	CE	ME	OFF
5	STC.Ctl_profile_5.Energy_Exct	CE	ME	OFF
6	STC.Ctl_profile_6.Energy_Exct	CE	ME	OFF

Relevant variables for flow PID loops are shown, below:

1	STC.Ctl_profile_1.Flow_Exct	CE	ME	OFF
2	STC.Ctl_profile_2.Flow_Exct	CE	ME	OFF
3	STC.Ctl_profile_3.Flow_Exct	CE	ME	OFF
4	STC.Ctl_profile_4.Flow_Exct	CE	ME	OFF
5	STC.Ctl_profile_5.Flow_Exct	CE	ME	OFF
6	STC.Ctl_profile_6.Flow_Exct	CE	ME	OFF

Relevant variables for pressure PID loops are shown, below:

1	STC.Ctl_profile_1.Pressure_Exct	CE	ME	OFF
2	STC.Ctl_profile_2.Pressure_Exct	CE	ME	OFF
3	STC.Ctl_profile_3.Pressure_Exct	CE	ME	OFF
4	STC.Ctl_profile_4.Pressure_Exct	CE	ME	OFF
5	STC.Ctl_profile_5.Pressure_Exct	CE	ME	OFF
6	STC.Ctl_profile_6.Pressure_Exct	CE	ME	OFF

If you are performing a one-step process in which your SCADA system only issues the setpoint change, you must enable an override in Station Manager to permit this:

1. In DataView, set the override variable EXECUTE_OVRD for the Station to TRUE. Relevant variables are shown, below:

1	STC.Ctl_profile_1.Execute_0vrd	CE	ME	OFF
2	STC.Ctl_profile_2.Execute_Ovrd	CE	ME	OFF
3	STC.Ctl_profile_3.Execute_Ovrd	CE	ME	OFF
4	STC.Ctl_profile_4.Execute_Ovrd	CE	ME	OFF
5	STC.Ctl_profile_5.Execute_Ovrd	CE	ME	OFF
6	STC.Ctl_profile_6.Execute_Ovrd	CE	ME	OFF

2. Change the remote setpoint value in Station Manager which will take immediate effect.

5.5 Meter Run Staging

The Station Manager application can control meter run staging (also referred to as run switching, or tube switching). The number of tubes varies depending upon the Station Manager version (6 run or 8 run).

To configure Meter Run Staging, click the

Meter Run Staging button from the Station Manager
Control tab.

The following screen will appear:

Note: The screen we're showing below is expanded to show tube control settings.

Choose the station you want to configure by clicking on its tab.

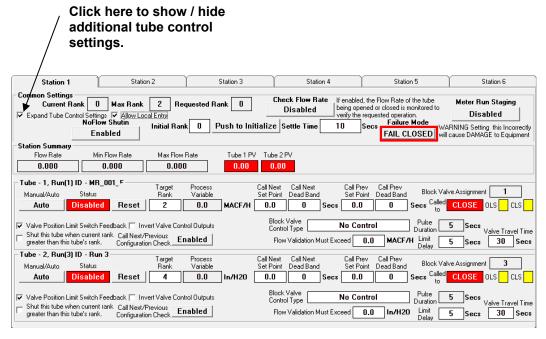


Figure 5-14. Meter Run Staging

Notes:

- To be able to configure meter run staging, more than one run must be assigned to a station and each run must have an assigned rank.
- if the station is a reverse flowing station (Station 2 or Station 4), no meter run staging is configured for that station, instead, the configuration for the forward flow station (Station 1 or Station 3) is used.

In our example, Station 1 has two runs assigned to it. Clicking on Station 3 or Station 4, that have fewer than two runs assigned to them, brings up the following message on the tab:

There are no runs ranked higher than 1 assigned to this station.

The various fields for meter run staging are:

Field	Description
Common Settings	Within the Common Settings section, there are settings and indications common to the station.
Current Rank	The current rank indicates the rank of the highest ranked run that is currently open.
	The term Rank is used throughout the run switching screen. Rank refers to order in which a run is opened or closed, as flow varies through the station.
	The run ranked 1 will open first, to meet any demand for flow. The runs ranked 2 and higher will open as the flow through the station increases and more runs are required.
	If a single station had 8 runs assigned to it, the maximum rank would be 8. In this example, with two runs assigned to the station, the maximum rank would be 2.
	Run switching ranks are set on the Run Config tab of Station/Run Configuration on the Measurement tab (see <i>Chapter 3, Section 3.3.8</i>).
Max Rank	The maximum rank is the highest possible ranked run that may be open for this station.
Requested Rank	The requested rank is the highest ranked run that should be open based on existing conditions. It is possible that the Requested Rank and Current Rank are different.
Initial Rank, Push to Initialize	The Initial Rank is the rank that the station will be configured to when the Push to Initialize button is pressed.
Settle Time	When opening or closing a run, the flow rate through the runs may momentarily increase or decrease above or below the set points for opening or closing additional runs. During the "Settle Time", no control actions will occur.
Check Flow Rate Enabled / Disabled	When the Check Flow Rate button is enabled, as each meter run is commanded opened, the flow rate through that meter run will be compared to the Flow Validation Must Exceed set point (found in the Expanded Tube Control Settings). If the flow rate does not exceed the limit, the run will be considered failed, and the next run will be opened.
Meter Run Staging Enabled / Disabled	This button enables or disables Meter Run Staging.

Noflow Shutin Enabled Disabled	If enabled, upon a station NoFlow Shutin condition, all run stage valves for this station will be shut.
Failure Mode	The Failure Mode may be selected as Fail Open or Fail Closed . It is important to understand the advantages and disadvantages of each mode. This only applies when a Q-bit or measurement error is detected, and only on the highest ranking tube. Any lower ranked tube which fails will be shut.
	Depending on the purpose of the station, a different fail mode may be appropriate. In cases where keeping gas flowing outweighs other concerns, Fail Open may be desired. A possible example of this is when the station feeds a power station or compressor station.
	In other cases, in which the delivery is not as critical, safety concerns may result in a decision to let the tube shut.
	Ultimately, the decision of whether to fail open or fail closed must be carefully considered and can only be determined on a site by site basis.
Expand Tube Control	Checking this box displays additional settings for configuring the individual tubes.
Settings	Leaving the box unchecked hides the additional settings for each tube.
Allow Local Entry	Check this box to allow entry of values on this page. De-select the box to prevent accidental entries on this page.
Station Summary	The Station Summary shows the flow rate and current process variables through the individual runs.
	The tubes are displayed in rank order, where the lowest ranked run (rank 1) is on the left, and the highest ranked run (rank 2, in this example) is on the right. The run ranks may be in a different order from the run number, that is, run 1 may have a rank of 3, while run 2 has a rank of 1, and run 3 has a rank of 2.
Flow Rate	This is the flow rate through the station. Units will be in the flow rate units configured on the Station Configuration screen.
Min Flow Rate	Shows the minimum flow rate for this station.
Max Flow Rate	Shows the maximum flow rate for this station.
Tube n PV	This is the value of the process variable through the meter.
	For an orifice meter, this process variable will be differential pressure. For ultrasonic meters, turbine meters, and positive displacement meters, this process variable will be uncorrected flow rate.
_	

	If the tube is called to open, the background of the PV display field will be green.
	If the tube is called to close, the background of the PV display field will be red.
Tube – n, Run(x)ID – Run ID	The specific tube switching settings for each run are configured on this section of the page.
Manual /	An individual tube may be put into the Auto or Manual mode.
Auto	When in the auto mode, the "Called to" setting is determined by the tube switching logic.
	When in the manual mode, the "Called to" setting may be changed from this page.
Status	The following status indications may be displayed for each run:
	Shutdown – This run has been closed due to a shutdown command.
	Q-Bit Fail - The Flow Rate value being calculated for the station is questionable.
	PV Fail – The PV value has failed (the questionable data bit is TRUE).
	Config Fail – The configuration for tube switching is invalid. This is the case when a run's low switch point is higher than the previous run's high switch point.
	Normal – All data is valid, the configuration of the tube switching is valid, and Meter Run Staging is Enabled.
	Disabled – All data is valid, the configuration of the tube switching is valid, and Meter Run Staging is Disabled.
	Maint Mode – The corresponding run is in maintenance mode and Meter Run Staging is disabled.
Reset	If the Status is anything other than Normal or Disabled, the failure must be reset
	To reset the failure, the failure condition must be cleared. Then, the Reset button may be pressed, and the status will be returned

Target Rank

This is the rank configured for this run.

When the requested rank matches the target rank, the run of that target rank will be opened. When the run is opened, the current rank should match the target rank.

Process Variable

This is the value of the process variable being evaluated to determine whether a run should be opened or closed.

The process variable for the run that matches the current rank is compared to the "Call Next Set Point" and the "Call Previous Set Point".

If the process variable for the "Current Rank" run exceeds the "Call Next Set Point" value for the number of seconds in the "Call Next Dead Band" setting, then the "Requested Rank" value will be incremented by one, unless the "Current Rank" matches the "Max Rank".

If the process variable for the "Current Rank" run drops below the "Call Prev Set Point" value for the number of seconds in the "Call Prev Dead Band" setting, then the "Requested Rank" value will be decremented by one, unless the "Current Rank" is 1 – in other words the only run open is the first or primary run.

The units of the process variable will match the units of the differential pressure measurement for an orifice run, and will be in the uncorrected flow rate units for all linear meter types.

Call Next Set Point

The Next Set Point is in the same units as the process variable and used to determine whether or not to increment the "Requested Rank".

Call Next Dead Band

The process variable must exceed the value of "Call Next Set Point" for the number of seconds in the "Call Next Dead Band" field before the "Requested Rank" will be changed.

Call Prev. Set Point

The Prev Set Point, is in the same units as the process variable and used to determine whether or not to decrement the "Requested Rank".

Call Prev. Dead Band

The process variable must be less than the value of "Call Prev Set Point" for the number of seconds in the "Call Prev Dead Band" field before the "Requested Rank" will be changed.

Block Valve Assignment

This is the block valve that is assigned to this run.

The assignments are based on the Run number, not the Target Rank. Therefore, the assignments are as shown in the table below:

Run	DI Assignments (from I/O	DO Assignments (from I/O	BV
#	configuration page)	configuration page)	Assignment

1	TUBE 1 Open/Close LIMIT	TUBE 1 Open/Close Command	1
2	TUBE 2 Open/Close LIMIT	TUBE 2 Open/Close Command	2
3	TUBE 3 Open/Close LIMIT	TUBE 3 Open/Close Command	3
4	TUBE 4 Open/Close LIMIT	TUBE 4 Open/Close Command	4
5	TUBE 5 Open/Close LIMIT	TUBE 5 Open/Close Command	5
6	TUBE 6 Open/Close LIMIT	TUBE 6 Open/Close Command	6
7	TUBE 7 Open/Close LIMIT	TUBE 7 Open/Close Command	7
8	TUBE 8 Open/Close LIMIT	TUBE 8 Open/Close Command	8

Called to

This is the command to the valve.

When the Tube is in Auto Mode, this command is determined by the tube switching logic.

When the Tube is in Manual Mode, this command may be set by the user.

Open/Close LS

The "Open LS" and "Close LS" fields show the state of each of the limit switches.

Opened LS On, Closed LS On, Valve position unknown.

Open LS Close LS

Opened LS On, Closed LS Off, Valve is Opened.

Opened LS Off, Closed LS On, Valve is Closed.

Opened LS Off, Closed LS Off, Valve is travelling.

<u>Tube – n Expanded Tube Control Settings</u>

Valve Position **Limit Switch Feedback**

When this box is checked, the valve position limit switch feedback will be processed.

The limit switch indications will be compared to the "Called To" field, and if there is a mismatch after the valve travel time, a discrepancy will be reported.

The limit switches are not used to determine if a run has failed.

When this box is not checked, the valve position limit switch feedback is not processed or indicated.

Invert Valve Control Outputs

This setting will change the operation of the digital output.

When this box is checked:

An Open Command will set the digital output assigned to the 'Open Command' to OFF (or FALSE). If dual outputs are used, the digital output assigned to the "Close Command" will be set ON (or TRUE).

A Close Command will set the digital output assigned to the "Open Command" to ON (or TRUE). If dual outputs are used, the digital output assigned to the "Close Command" will be set OFF (or FALSE).

Block Valve

The user may select from a number of control types for the tube Control Type switching block valve.

Single Maintained Output

This option should be chosen when a single output is energized to change the position of the valve. **Dual Maintained Output**

This option should be chosen when there are two analog outputs, one to open the valve, and the other to close the valve. These outputs should be maintained, even after the appropriate limit switch indicates that the valve is in the demanded position. **Dual Pulsed Output**

This option should be chosen when there are two digital outputs, one to open the valve, and the other to close the valve. These outputs should be pulsed until the appropriate limit switch indicates that the valve is in the demanded position. The "Limit Delay" setting can be used to maintain a pulse for some time after the limit switch is made.

Pulse **Duration**

The "Pulse Duration" is the amount of time to pulse the output. This setting only applies when the "Control Type" is "Dual Pulsed Outputs", and may only be changed when this control type is selected.

Time The "Travel Time" field is the amount of time, in seconds, it takes the valve to fully travel from the open-to-close or close-to-open position. This entry may be changed from this screen. Limit Delay The "Limit Delay" is the amount of time, in seconds, that the output pulse will be maintained after an opened or closed limit is indicated. This only applies for the "Control Type" of "Dual"

Pulsed Outputs".

Flow Validation Must Exceed

If the "Check Flow Rate" feature is Enabled, the process variable must exceed this limit for flow to be validated. In practical terms, when a run is requested to open, the actual rank will not be updated until the flow validation number is exceeded. If it fails to be exceeded prior to the end of the travel time, the run is marked as failed and the next higher run is requested.

The units will match the units of the Process variable for the run.

Low Flow Run Shut-in

This setting allows a run to be shut-in, after a higher ranked run is opened.

This is typically used where there is a low flow run on the system, and it is necessary to shut this run in when there are high flow conditions. The run will not be allowed to shut until the Actual Rank is increased. This will not occur until flow is established on a higher tube; this means that flow must be greater than the **Flow Validation Must Exceed** limit specified for the higher tube.

When the station is shutting in, the higher run will not be allowed to shut until Actual Rank is lower. This will not occur until flow is established on a lower tube; this means that flow must be greater than the **Flow Validation Must Exceed** limit specified for the lower tube.

5.5.1 Clearing and Resetting Meter Staging Errors

If an error occurs in the meter run staging sequence that causes a meter run (or runs) to improperly open or shut, you must reset the staging sequence as follows:

- 1. Determine the root cause of the error then correct the condition.

 Typical causes might include invalid DP or counts measurements, or incorrect settings for "next" or "previous."
- **2.** Disable meter run staging.
- **3.** Re-initialize meter run staging.
- **4.** Re-enable meter run staging.

Note: If you cannot determine the cause of the failure, you may not be able to re-enable the staging sequence.

5.6 Process Monitor Control

The Station Manager controller allows up to four (4) process values to be monitored and alarmed. In addition, a digital output may be controlled when a value goes into alarm. The process values to be monitored may be analog or digital (logical) values. Alarms may be generated when the process value exceeds High-High, High, Low, or Low-Low setpoints, or if the rate of change of the process value exceeds some limit.

To view the Process Monitor Control, select the Station Manager Control' tab, and click the Process Monitor Control button

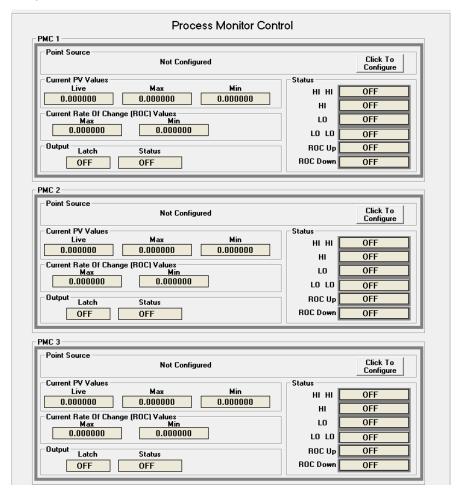


Figure 5-15. Process Monitor Control (Point 4 Not shown)

Field	Description
PMC n	
Point Source	Shows the source for this point, or Not Configured if no source has been assigned yet.
Click To Configure	Click this button to bring up a screen to configure the point source. See Section 5.6.1 for more information.
Current PV Values	
Live	Displays the most recent update to this point
Max	Displays the maximum observed value of this point since the last min/max reset.
Min	Displays the minimum observed value of this point since the last min/max reset.
Current Rate of Change (ROC) Values	
Мах	Displays the maximum observed (upward) rate of change value of this point since the last min/max reset.
Min	Displays the minimum observed (downward) rate of change value of this point since the last min/max reset.
<u>Output</u>	
Latch	If latching for this output is enabled, shows ON , otherwise shows OFF .
Status	Shows the current state of the output.
<u>Status</u>	
HI HI	Shows ON if the variable is currently in a HI HI alarm state, otherwise shows OFF .
HI	Shows ON if the variable is currently in a HI alarm state, otherwise shows OFF .
LO	Shows ON if the variable is currently in a LO alarm state, otherwise shows OFF .
LOLO	Shows ON if the variable is currently in a LO LO alarm state, otherwise shows OFF .
ROC Up	Shows ON if a variable is in a rate of change upward alarm state, otherwise shows OFF .
ROC Down	Shows ON if a variable is in a rate of change downward alarm state, otherwise shows OFF .

5.6.1 Process Monitor Control Configuration

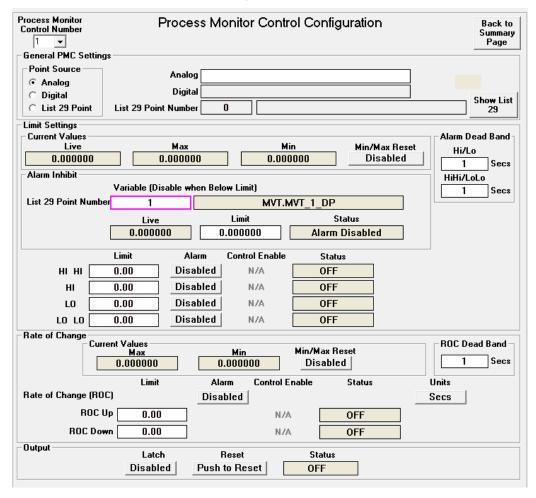


Figure 5-16. Process Monitor Control

Field	Description
Process Monitor Control Number	Select the point to be configured (1 through 4) from the drop down menu. These points correspond to the PMC.PV_Monitor_ n .PV variables, where $n = 1$ through 4.
General PMC Settings	
Point Source	
Analog	If the value to be mapped to the process value monitor is an analog input, select the desired input from the drop down menu.
Digital	If the value to be mapped to the process value monitor is a digital input, select the desired input from the drop down menu

List 29 Point	If the sampler is to be mapped to some other process variable, rather than an analog/digital input, it may be mapped from List 29
	After the point number is chosen, the variable name assigned to that element on the list will be displayed
	List 29 is a modifiable list, and may be edited using the On-Line Edit tool to add or remove items from the list.
Show List 29	Click here to view the contents of List 29.
Back to Summary Page	Click here to return to the Process Monitor Control Summary page. See <i>Section 5.6.</i>
Alarm Inhibit	
List 29 Point Number / Variable	Select the variable to use for an alarm inhibit.
Live	Shows the live value of the selected variable.
Limit	Enter the limit to use.
Status	Shows whether alarms are enabled or disabled based on the live value and specified limit.
Limit Settings	Up to four alarm limits are available for each point:
Current Values	
Live	This displays the most recent update of this point.
Max	This displays the maximum observed value of this point since the last min/max reset.
Min	This displays the minimum observed value of this point since the last min/max reset.
Min/Max Reset Enabled / Disabled	This clears the above max / min values (resets to live) and begins updating from there.
Alarm Dead Band	Before an alarm is generated, the alarm condition must be true for the amount of time defined by the alarm dead band, in seconds.
Hi/Lo	This is the deadband to trigger a HI or LO alarm.
HiHi/LoLo	This is the deadband to trigger a HIHI or LOLO alarm.
Limit	For the "Hi" and "Hi Hi" limits, enter the number which the process value must be greater than in order to generate an alarm.
-	

	For the "Lo" and "Lo Lo" limits, enter the number
	which the process value must be less than in order to generate an alarm.
Alarm Enable / Disable	Each type of alarm ("Hi Hi", "Hi", "Lo", and "Lo Lo") may be enabled and disabled independently.
Control Enable	Control for each type of alarm ("Hi Hi", "Hi", "Lo", and "Lo Lo") may be enabled and disabled independently. However, if the Alarm for that alarm type is not enabled, control cannot be enabled, and the field will show N/A . Control must be enabled for station control ESD, Modbus status registers, and RCVs for those functions to work.
Status	Displays whether the corresponding alarm is currently active.
-	be monitored is a digital input, you can enter 0 or 1 the system evaluates limits accordingly.
Rate of Change	It is possible to monitor the process value for a rate-of-change alarm.
	Both an increasing rate-of-change (ROC UP) or decreasing rate-of-change (ROC DOWN) alarm may be generated.
Current Values	Displays the most recent update to this point
Max	Displays the maximum observed (upward) rate of change value of this point since the last min/max reset.
Min	Displays the minimum observed (downward) rate of change value of this point since the last min/max reset.
Min/Max Reset	Clears the above max / min values (resets to current) and begins updating from there.
ROC Dead Band	This is the period of time in seconds that the rate of change setpoint must be exceeded to trigger an alarm.
Rate of Change (ROC)	This button enables/disables monitoring of the process value for a rate-of-change alarm.
Enabled / Disabled	

Status	The actual signal being applied to the output.
Push to Reset	This button is used to reset a latched output.
	When "Latch Output" is Enabled, the output will be set to TRUE or ON when any alarm condition is met, but will only be set FALSE or OFF when the "Push to Reset" button is pressed.
	When "Latch Output" is Disabled, the output will be set to TRUE or ON when any alarm condition is met, and set to FALSE or OFF when no alarm conditions are met.
Cutput Latch Enabled / Disabled	When the control for a point is enabled, the output may be latched or unlatched.
Alarm Enabled, Disabled	If the alarm for the rate-of-change is enabled, both the ROC UP and ROC DOWN limits will be evaluated. If it is desired that no rate-of-change alarm is reported in one direction, set the ROC limit to some large number, that should never be experienced.
ROC Up, ROC Down	Both an increasing rate-of-change (ROC UP) or decreasing rate-of-change (ROC DOWN) alarm may be generated.
	For example, if the process value chosen was Station 1 Discharge Pressure, in units of PSI, and the Units (Time) selected to evaluate the rate-of-change were chosen as minutes, the limit for the ROC UP or ROC DOWN would be entered in units of PSI/MINUTE. If the limit for ROC UP was entered as 5, then the maximum rate-of-change allowed for Station 1 Discharge Pressure would be 5 PSI/Minute. If ROC DOWN is entered, you must include a negative sign (for example, -5 PSI/Minute.)
Limit	The limit is the value of the maximum rate-of-change allowed in the given direction, expressed in units of the process variable units divided by the rate-of-change time units.

5.7 Process Value Monitor

The Station Manager controller allows up to four (4) process values to be monitored and alarmed. The process values to be monitored may be analog or digital (logical) values. Alarms may be generated when the process value exceeds High-High, High, Low, or Low-Low setpoints, or if the rate of change of the process value exceeds some limit.

Note: PVM control outputs are soft points and cannot be physical DOs.

To view the Process Value Monitor Summary, select the "Control" tab, and click on the Process Value Monitor button.

The following screen will appear:

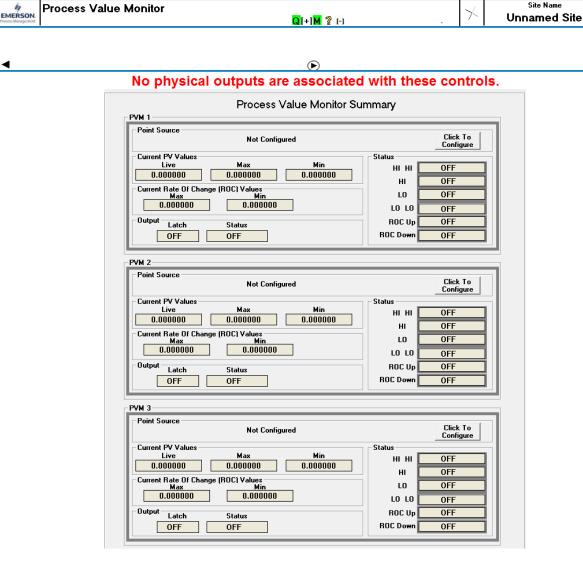


Figure 5-17. Process Value Monitor

Click To Configure Click this button to bring up a screen to configure to point source. See Section 5.7.1 for more information. Current PV Values Live Displays the most recent update to this point Max Displays the maximum observed value of this point since the last min/max reset. Min Displays the minimum observed value of this point since the last min/max reset. Current Rate of Change (ROC) Values Max Displays the maximum observed (upward) rate of change value of this point since the last min/max reset. Min Displays the minimum observed (downward) rate of change value of this point since the last min/max reset. Min Displays the minimum observed (downward) rate of change value of this point since the last min/max reset. Min Displays the minimum observed (downward) rate of change value of this point since the last min/max reset. Substitute of this point since the last min/max reset. Status Shows OFF. Status Shows OFF. Status Shows ON if the variable is currently in a HI HI ala state, otherwise shows OFF. HI Shows ON if the variable is currently in a HI alarm state, otherwise shows OFF. LO Shows ON if the variable is currently in a LO alarm state, otherwise shows OFF. CO Up Shows ON if a variable is in a rate of change upward alarm state, otherwise shows OFF. ROC Up Shows ON if a variable is in a rate of change	Field	Description
Click To Configure Click this button to bring up a screen to configure to point source. See Section 5.7.1 for more information. Current PV Values Live Displays the most recent update to this point Max Displays the maximum observed value of this point since the last min/max reset. Min Displays the minimum observed value of this point since the last min/max reset. Current Rate of Change (ROC) Values Max Displays the maximum observed (upward) rate of change value of this point since the last min/max reset. Min Displays the minimum observed (downward) rate of change value of this point since the last min/max reset. Min Displays the minimum observed (downward) rate of change value of this point since the last min/max reset. Min Displays the minimum observed (downward) rate of change value of this point since the last min/max reset. Substitute of this point since the last min/max reset. Status Shows OFF. Status Shows OFF. Status Shows ON if the variable is currently in a HI HI ala state, otherwise shows OFF. HI Shows ON if the variable is currently in a HI alarm state, otherwise shows OFF. LO Shows ON if the variable is currently in a LO alarm state, otherwise shows OFF. CO Up Shows ON if a variable is in a rate of change upward alarm state, otherwise shows OFF. ROC Up Shows ON if a variable is in a rate of change	PVM n	
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alarm state, otherwise shows OFF. ROC Up Shows ON if a variable is in a rate of change upwar alarm state, otherwise shows OFF. ROC Down Shows ON if a variable is in a rate of change	LO	Shows ON if the variable is currently in a LO alarm state, otherwise shows OFF .
alarm state, otherwise shows OFF . ROC Down Shows ON if a variable is in a rate of change	LO LO	
•	ROC Up	Shows ON if a variable is in a rate of change upward alarm state, otherwise shows OFF .
downward alarm state, otherwise shows OFF .	ROC Down	•

Process Value Monitor 5.7.1

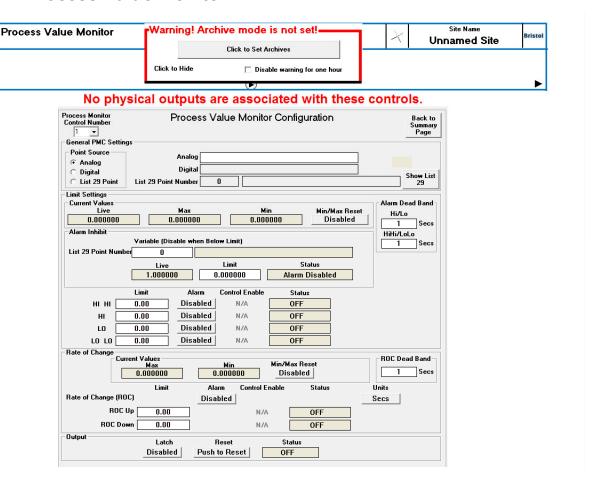


Figure 5-18. Process Value Monitor Configuration

Field	Description
Process Monitor Control Number	Select the point to be configured (1 through 4) from the drop down menu. These points correspond to the PVM.PV_Monitor_ n .PV variables, where $n = 1$ through 4.
General PMC Settings	
Point Source	
Analog	If the value to be mapped to the process value monitor is an analog input, select the desired input from the drop down menu.
Digital	If the value to be mapped to the process value monitor is a digital input, select the desired input from the drop down menu
List 29 Point	If the sampler is to be mapped to some other process variable, rather than an analog/digital input, it may be mapped from List 29

	After the point number is chosen, the variable name assigned to that element on the list will be displayed
	List 29 is a modifiable list, and may be edited using the On-Line Edit tool to add or remove items from the list.
Show List 29	Click here to view the contents of List 29.
Back to Summary Page	Click here to return to the Process Value Monitor Summary page. See Section 5.7.
Limit Settings	Up to four alarm limits are available for each point:
Current Values	
Live	This displays the most recent update of this point.
Max	This displays the maximum observed value of this point since the last min/max reset.
Min	This displays the minimum observed value of this point since the last min/max reset.
Min/Max Reset Enabled / Disabled	This clears the above max / min values (resets to live) and begins updating from there.
Alarm Dead Band	Before an alarm is generated, the alarm condition must be true for the amount of time defined by the alarm dead band, in seconds.
Hi/Lo	This is the deadband to trigger a HI or LO alarm.
HiHi/LoLo	This is the deadband to trigger a HIHI or LOLO alarm.
Limit	For the "Hi" and "Hi Hi" limits, enter the number which the process value must be greater than in order to generate an alarm.
	For the "Lo" and "Lo Lo" limits, enter the number which the process value must be less than in order to generate an alarm.
Alarm Enable / Disable	Each type of alarm ("Hi Hi", "Hi", "Lo", and "Lo Lo") may be enabled and disabled independently.
Control Enable	Control for each type of alarm ("Hi Hi", "Hi", "Lo", and "Lo Lo") may be enabled and disabled independently. However, if the Alarm for that alarm type is not enabled, control cannot be enabled, and the field will show N/A .
	Control must be enabled for station control ESD, Modbus status registers, and RCVs for those functions to work.

Status	Displays whether the corresponding alarm is currently active.
If the process value to	be monitored is a digital input, you can enter 0 or 1
<u>=</u>	I the system evaluates limits accordingly.
Rate of Change	It is possible to monitor the process value for a rate-of-change alarm.
	Both an increasing rate-of-change (ROC UP) or decreasing rate-of-change (ROC DOWN) alarm may be generated.
Current Values	Displays the most recent update to this point
Max	Displays the maximum observed (upward) rate of change value of this point since the last min/max reset.
Min	Displays the minimum observed (downward) rate of change value of this point since the last min/max reset.
Min/Max Reset	Clears the above max / min values (resets to current) and begins updating from there.
ROC Dead Band	This is the period of time in seconds that the rate of change setpoint must be exceeded to trigger an alarm.
Rate of Change (ROC) Enabled / Disabled	This button enables/disables monitoring of the process value for a rate-of-change alarm.
Units	This is the time units used as the divisor in the rate of change limit. The choices are seconds ("Secs") or minutes (Mins).
Limit	The limit is the value of the maximum rate-of-change allowed in the given direction, expressed in units of the process variable units divided by the rate-of-change time units.
	For example, if the process value chosen was Station 1 Discharge Pressure, in units of PSI, and the Units (Time) selected to evaluate the rate-of-change were chosen as minutes, the limit for the ROC UP or ROC DOWN would be entered in units of PSI/MINUTE. If the limit for ROC UP was entered as 5, then the maximum rate-of-change allowed for Station 1 Discharge Pressure would be 5 PSI/Minute. If ROC DOWN is entered, you must include a negative sign (for example, -5 PSI/Minute.)

ROC Up, ROC Down	Both an increasing rate-of-change (ROC UP) or decreasing rate-of-change (ROC DOWN) alarm may be generated.
Alarm Enabled, Disabled	If the alarm for the rate-of-change is enabled, both the ROC UP and ROC DOWN limits will be evaluated. If it is desired that no rate-of-change alarm is reported in one direction, set the ROC limit to some large number, that should never be experienced.
<u>Output</u>	
Latch Enabled / Disabled	When the control for a point is enabled, the output may be latched or unlatched.
	When "Latch Output" is Disabled, the output will be set to TRUE or ON when any alarm condition is met, and set to FALSE or OFF when no alarm conditions are met.
	When "Latch Output" is Enabled, the output will be set to TRUE or ON when any alarm condition is met, but will only be set FALSE or OFF when the "Push to Reset" button is pressed.
Push to Reset	This button is used to reset a latched output.
Status	The actual signal being applied to the output.

5.8 GP PIDs

To configure the General Purpose (GP) PID loops, select the "Control" tab, and click on the GPPIDs button.

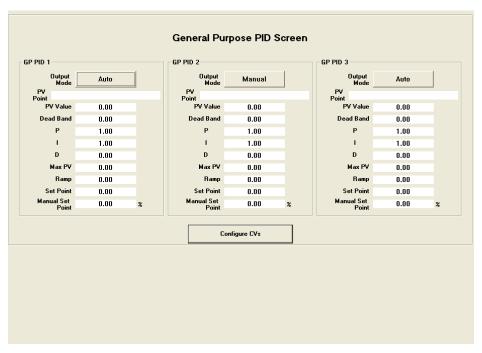


Figure 5-19. General Purpose PID

Field	Description
GP PID n	
Output Mode	Click this to choose between Auto and Manual Override
PV Point	Select the AI point used as the process value for the PID.
PV Value	This shows the live reading of the AI point used for control in this PID.
Dead Band	Deadband applies to the loop output. A calculated loop output which does not vary by more than the percent selected here will not change the output.
P	Proportion, also known as Gain, determines the amount of output change that will be produced by a change of error.
I	Integral, establishes the "reset" rate in "repeats-perminute."

D	Derivative establishes a scale factor to determine how much the rate-of-change of the MV (not error) affects the function block output. The numerical entry for this parameter represents the amount of rate correction in minutes. Any value other than zero MUST have a negative polarity assigned to it, regardless of the polarity of the Proportion value.
Max PV	The maximum value the PV can achieve.
Ramp	The rate at which a change in setpoint should be applied to the loop.
Set Point	The value of PV the loop should attempt to maintain.
Manual Set Point	The desired percent of full range for the PID loop output. Valid in manual mode only.

5.9 PID Tuning

To tune the General Purpose (GP) PID loops, select the "Control" tab, and click on the

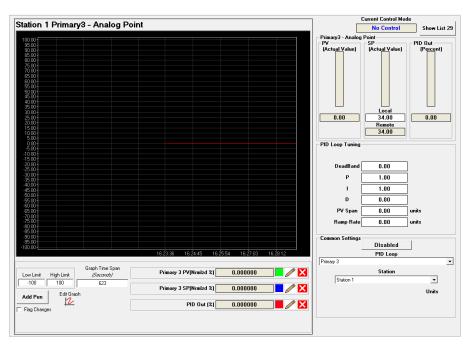


Figure 5-20. PID Tuning

Description

Field

Current Control Mode	·
Primary n Analog Point	
PV	Process Variable – This displays the live value of the process being controlled.
SP	Setpoint – This displays the value the loop is trying to maintain on the PV.
PID Out	The output of the PID Loop. This varies from 0-100.
Local SP	This allows local entry of the setpoint.
Remote SP	Displays the value of the remote entry for the setpoint
PID Loop Tuning	

Deadband applies to the loop output. A calculated loop output which does not vary by more than the percent selected here will not change the output.
Proportion, also known as Gain, determines the amount of output change that will be produced by a change of error
Integral, establishes the "reset" rate in "repeats-perminute"
Derivative establishes a scale factor to determine how much the rate-of-change of the MV (not error) affects the function block output. The numerical entry for this parameter represents the amount of rate correction in minutes. Any value other than zero MUST have a negative polarity assigned to it, regardless of the polarity of the Proportion value.
The maximum value the PV can achieve.
The rate at which a change in setpoint should be applied to the loop.
Enable / disable the individual loop control.
Selects which loop to tune.
Selects the station for which loops will be tuned.
The lowest value to display on the y axis of the chart.
The highest value to display on the y axis of the chart.
Selects x axis (time span) to view on the chart.
Click here to add items to the chart.
When enabled, will place a vertical line on the graph where changes to the graph properties have been made.
Allows modifications of color schemes for the chart.

Primary n PV	Shows the current value and color for PV on the chart.
Primary n SP	Shows the current value and color for SP on the chart.
PID Out	Shows the current value and color for PID on the chart.
	Click on a color block icon to open the color palette and select a color for the pen.
	Click the pencil icon to edit the properties for the pen.
×	Click the white "X" to delete a pen.

Chapter 6 – Math Functions, Sampler (Utilities Tab)

This chapter discusses some special utilities included in the Station Manager application.

In This Chapter

6.1	Utilities Ta	b	6-1
		tion	
6.3	Sampler		6-4
		Recipe Control	
	6.5.1	Changing the Floating Point Format in the Recipe	6-10
	6.5.2	Saving the Recipe	6-10
	6.5.3	Recalling a Saved Recipe, and Sending Its Values to the Controller	6-11
6.6	User Defin	ed Screen (legacy)	6-11

6.1 Utilities Tab

Click the Utilities tab to access the math and sampling functions.

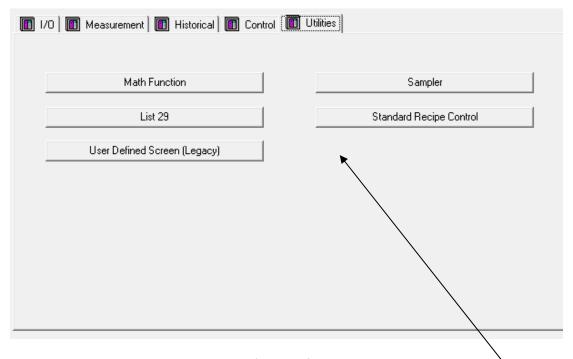


Figure 6-1. Utilities Tab in Station Manager

Click on the button to configure a particular utility.

6.2 Math Function

Click the button on the Utilities tab to perform basic calculator functions on values from List 29, a Modbus register or a Modbus coil.

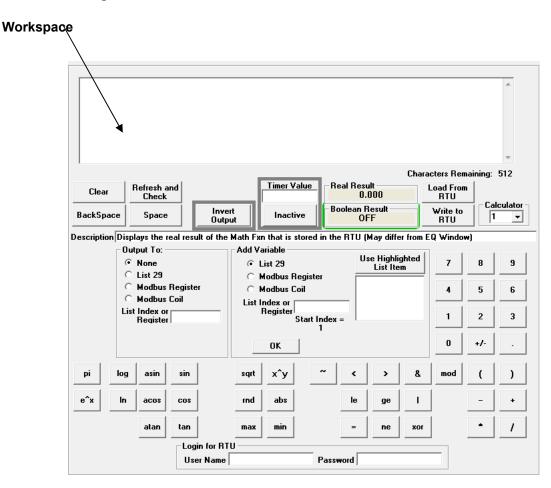


Figure 6-2. Math Function

Field	Description
Characters remaining	Shows the number of characters left for use in the workspace. The maximum number of characters is 512.
Clear	Click this button to empty the contents of the workspace.
Refresh and Check	Evaluate the workspace expression(s) and update the screen.
Backspace	Erase the last character entered in the workspace.
Space	Insert a space at the cursor position in the workspace
Invert Output	Click this to invert the Boolean output.
Timer Value Inactive /	When active, the Boolean and the Real Result will not

Active	change until the expression is true and the Timer Value has expired. The Real Result will be 1.0 if the expression evaluates to anything other than 0, otherwise it will be 0.0.	
Real Result	The real result of the evaluated expression.	
Boolean Result	The Boolean result of the evaluated expression. Note that the Invert Output and Timer settings affect the Boolean Result. Note: If the expression evaluates to anything other than 0 or false it will be true	
Load From RTU	Retrieve the expression from RTU memory.	
Write to RTU	Write the expression to RTU memory.	
Calculator	Select the Math function to be viewed/edited (12 available). The number selected corresponds to the default Math function result variables (MFN.MFNx_BOOL and MFN.MFNx_REAL where x is the value selected in the Calculator dropdown box).	
Description	Provides a description of a Math Function feature when the mouse is near the feature.	
Output To	Selects whether the output of the Math Function will be written to List 29, a Modbus Register, or a Modbus Coil or only to the default Math Function result variables.	
None	If None is selected, the result will only be written to the Math Function Real and Boolean result variables (MFN.MFNx_BOOL and MFN.MFNx_REAL where x is the value selected in the Calculator dropdown box).	
List 29	If List 29 is selected, the result will be written to the list 29 variable specified by the value of List Index or Register. The result is also written to the default Math Function result variables (MFN.MFNx_BOOL and MFN.MFNx_REAL where x is the value selected in the Calculator dropdown box).	
Modbus Register	If Modbus Register is selected, the result will be written to the Modbus Register variable specified by the value of List Index or Register. The result is also written to the default Math Function result variables (MFN.MFNx_BOOL and MFN.MFNx_REAL where x is the value selected in the Calculator dropdown box).	
Modbus Coil	If Modbus Coil is selected, the result will be written to the Modbus Coil variable specified by the value of List Index or Register. The result is also written to the default Math Function result variables (MFN.MFNx_BOOL and MFN.MFNx_REAL where x is the value selected in the Calculator dropdown box).	
List Index or Register	Provides the list index that the result is to be written to. For example, if List 29 is selected and the index is 3, then the result will be written to item 3 of list 29.	
Add Variable	The settings in this frame provide a way to use a List 29, Modbus Register, or Modbus Coil variable in the expression. When a list is selected, an index specified, and the OK button is clicked, the specified item will be written to the expression window and to the Use Highlighted List Item List box.	
List 29	In the Add Variable Frame, if List 29 is selected and a value is specified in the List Index or Register, then the	

	specified item in List 29 will be written to the expression window.
Modbus Register	In the Add Variable Frame, if Modbus Register is selected and a value is specified in the List Index or Register, then the specified item in the Modbus Register list will be written to the expression window.
Modbus Coil	In the Add Variable Frame, if Modbus Coil is selected and a value is specified in the List Index or Register, then the specified item in the Modbus Coil list will be written to the expression window.
List Index or Register	In the Add Variable Frame, provides the List Index or register to be used in the expression.
Use Highlighted List Item	Each time a list item is added to the expression it is also added to the Use Highlighted List Item list box. If desired, the user can select a previously used list item from the list box and press the Use Highlighted List Item button to add it to the expression again.
0 – 9, .	Digits and the decimal point for entering integer and real values. These may also be entered directly from the user's keyboard if desired.
+/-	Swap the sign
mod	modulo division
()	Parentheses (may also be entered from the user's keyboard)
- + * /	Arithmetic functions (subtract, add, multiply, divide)
~ < > & le ge = ne xor	Logical comparison functions (NOT, less than, greater than, AND, less than or equal, greater than or equal, OR, equal, not equal, exclusive OR.
sqrt, x^y, rnd, abs, max, min pi	Square root, exponent, round, absolute value, maximum, minimum Pi
e	E
asin, sin, acos, cos, atan, tan	Trigonometric functions
log, In	Logarithmic functions
Login for RTU	The user must log in to read/write the math function from/to RTU memory.
User Name	RTU User Name
Password	RTU User Password

6.3 Sampler

Sampler Click the button on the

Utilities tab to configure the Sampler.

The Station Manager allows up to 12 outputs (any combination of analog outputs and pulsed digital outputs) to be configured for 'sampling' functions.

When an analog output is configured as a Sampler output, then any analog input or process variable may be mapped to the Sampler output. The analog output will vary as the analog input or process variable varies, depending on the scale factor and the zeroes and spans selected for the inputs and outputs.

When a pulsed digital output is configured as a Sampler output, then a process variable representing some accumulated value (run flow or energy, station flow or energy) should be mapped to the output. Other analog inputs and process variables may be mapped to the pulsed digital output, but it may not make sense to do so.

The following screen will appear:

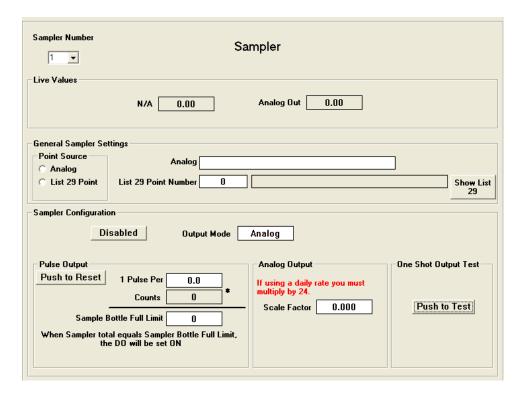


Figure 6-3. Sampler

Field	Description	
Sampler Number	Select the point to be configured (1 through 12) from the drop down menu. These points correspond to the 'Sampler 1' through 'Sampler 12' selections in the Analog Output and Digital Output assignment screens.	
<u>Live Values</u>	This area of the screen displays the live value for the selected point to sample (either analog or List 29 point) and also displays the value of the analog output if Analog is the selected Output Mode.	

N/A	This is the label for the Sampler Point source live value text box. The value for this label will change based on the selected Point Source. If List 29 Point is selected then the label changes to Selected List 29 Val and the textbox displays the current live value of the selected List 29 Point. When Analog is selected as the Point Source and an analog source is selected from the Analog dropdown box, the label will change to Selected Analog Val. and the selected analog value will be displayed in the textbox.
Analog Out	This label and textbox will only be displayed when Analog is the selected Output Mode. When displayed, the textbox will show the live value of the sampler's analog output.
General Sampler Settings	These items are used to select the source to be sampled.
Point Source	The items in this frame allow you to select whether the sampler source will be an analog source or a list 29 item.
Analog	Select this radio button if the value to be mapped to the sampler output is an analog input; then select the desired input from the drop down menu next to the Analog label.
List 29 Point	If the sampler is to be mapped to some other process variable, rather than an analog input, it may be mapped from List 29
	List 29 is a modifiable list, and may be edited using the On-Line Edit tool to add or remove items from the list.
Sampler Configuration	After the source is configured, the Sampler Configuration itself must be completed. The items in this frame enable the sampler, select the output mode, configure the way the pulse output behaves (if Pulse is the selected Output Mode) and determine scaling.
Disabled / Enabled	The Sampler output is Enabled/Disabled by toggling the button
Output Mode	The output mode may be selected as an analog output (Analog) or pulsed digital output (Pulse).
Pulse Output	If the Output Mode is selected as Pulse, the items in this frame configure the Pulse Output.

Issued: February 2023

Push to Reset	By clicking on the 'Push to Reset' button, the 'Counts' value will be set to 0.		
1 Pulse Per	The user is required to enter the ratio of pulses per input quantity.		
	For instance:		
	Assume the pulse output is mapped to the station accumulated volume.		
	The station accumulated volume is in units of MSCF (thousands of standard cubic feet).		
	If the user wants a pulse for every 1.0 MSCF, then the entry should be 1.0 (1 pulse per 1.0 MSCF).		
	If the user wants a pulse for every 100 SCF (100 standard cubic feet), then the entry should be 0.1 (1 pulse per 0.1 MSCF)		
	If the user wants a pulse for every 2.0 MSCF, then the entry should be 2.0 (1 pulse per 2.0 MSCF)		
	If the user wants a pulse for every 200 SCF (200 standard cubic feet), then the entry should be 0.2 (1 pulse per 0.2 MSCF).		
Counts	The 'Counts' value represents the total number of pulses output since the last time the 'Push to Reset' button was pressed.		
Sample Bottle Full Limit	If the value of this setting is anything other than 0, then the digital output assigned to the sampler will come on and stay on after the Counts = Sample Bottle Full Limit. Note that the value entered in the 1 Pulse Per field must be .5 or greater for this feature to work properly. Note also that the DO and the counts will be reset when the Push to Reset button is clicked.		
Analog Output			
Scale Factor	If the Output Mode is selected as analog, then the user must apply a scale factor to the output.		
	If no scaling is required, the scale factor should be set to 1.0.		
	Below are some examples of using the Scale Factor:		
	To convert a flow rate in units of MSCF/Hour to MMSCF/Hour, the scale factor should be 0.001		

(1/1000).

To convert a flow rate in units of MMSCF/Hour to MSCF/Hour, the scale factor should be 1000.0.

To convert a flow rate in units of MSCF/Hour to MSCF/Day, the scale factor should be 24.0

To convert a flow rate in units of MSCF/Day to MSCF/Hour, the scale factor should be 0.04167 (1/24).

Any scale factor needed to perform the proper units conversion may be entered here.

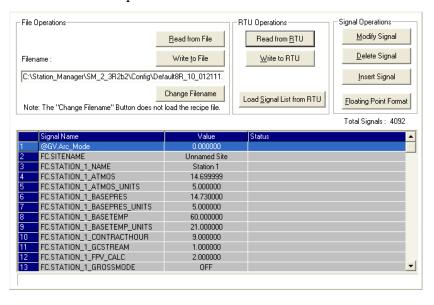
One Shot Output Test	
Push to Test	Click this button to send one pulse to the sampler Digital output. Note : This only applies when Pulse is selected at the Output Mode and a DO is assigned to the sampler.

6.4 List 29

For information on List 29, please see *Section 3.7*.

6.5 Standard Recipe Control

Click the Standard Recipe Control button on the Utilities tab to create a recipe.



Issued: February 2023

Figure 6-4. Recipe Feature

To create a recipe you must first specify the variables you want included in the recipe. One way to do this is to *either* right-click on the grid in the center of the Recipe page and choose "Insert Signal" from the pop-up menu, *or* click the Insert Signal button.

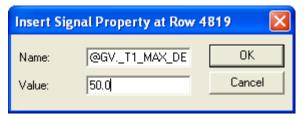


Figure 6-5. Insert Signal Property dialog box

In either case, a dialog box opens and you can enter the variable's name. If desired, you can also enter a value for the variable. Click **OK** when you are finished. Repeat for each additional variable.

If you don't enter values for the variable when you insert it you can load the current values in the Station Manager for all variables in the recipe by clicking on **Read From RTU**.

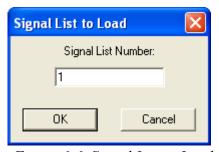


Figure 6-6. Signal List to Load

Another way to specify variables for the recipe is to load the variables from the list. To do this, click the **Load Signal List from RTU** button, then specify the number of the signal list and click **OK**.

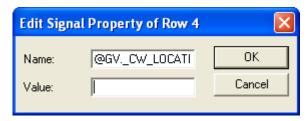


Figure 6-7. Edit Signal Property

If, as you are creating the recipe, you decide you want to change a variable or value for a particular entry, *either* right click on the entry and choose "Edit Signal" from the pop-up menu, *or* click the Modify Signal button. Make changes, as desired, and click OK.

If you want to delete a variable in the recipe, *either* right-click on the line for that variable and choose "**Delete Signal**" from the pop-up menu, *or* click the **Delete Signal** button. You will be prompted to confirm the deletion.

6.5.1 Changing the Floating Point Format in the Recipe

If desired, you can change the format in which values are displayed in the recipe window by clicking on the **Floating Point Format** button.

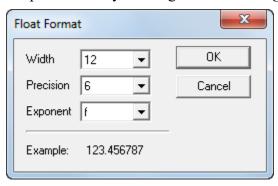


Figure 6-8. Float Format dialog box

Use the "Width" list box to specify the total number of characters in the field (including the decimal point) when displaying a floating point number. This can range from 0 to 15. The default is 12.

Use the **"Precision"** list box to choose the number of places to the right of the decimal point which should be displayed. This can range from 0 to 15. The default is 6.

Use the "Exponent" list box to choose the floating point format 'f', exponential notation 'e', or choose 'g' to have the Recipe control choose the best fit format.

Click on **OK** when finished.

6.5.2 Saving the Recipe

Type the path and filename for your recipe file in the "Filename" field or click Change Filename to select a recipe from the default recipe area. Standard recipe files are stored with a file extension of (.RCP). You also have the option of saving the file as a .CFG file (which is intended for use with Coastal Flow Measurement Inc. Flow-CalTM software.)

Issued: February 2023

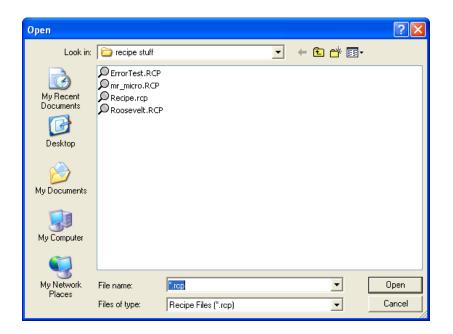


Figure 6-9. Saving the Recipe

Once you have specified the path and filename, click on the **Write to File** button; answer **Yes** to the confirmation prompt, and the control writes the recipe to the specified file.

6.5.3 Recalling a Saved Recipe, and Sending Its Values to the Controller

To recall a recipe which you have saved previously, use the **Change Filename** button to locate it, or type its path and filename in directly in the
"Filename" field. Finally, click the **Read From File** button, and the recipe will be brought into the web page.

Once the recipe file has been loaded, you can send the recipe values to the controller by clicking on the **Write to RTU** button; answer **Yes** to the confirmation prompt, and the control writes the recipe to the controller.

6.6 User Defined Screen (legacy)

The User Defined Screen lets you display the values for up to thirty variables on the screen.

To do this, first create a text file that uses the following syntax:

! any text following an exclamation point in column 1 is ignored and treated as a comment Lines that start with text not preceded by an explanation point in column 1 are displayed "as is" label1; variable; label2; variable2; label3; variable3

label28; variable28; label29; variable29; label30; variable30

where *label1* to *labeln* refer to text to display to the right of the

associated variable. The semicolon ";"

marks the end of the label.

*variable1*to *variable*n

refer to ControlWave variable names. Include a semicolon ";" following the variable name unless this is the last variable on the line.

Issued: February 2023

Notes:

- Although the syntax box shows three variables per line, you can include more or less provided they fit within the user defined display.
- Each label and variable pair makes up a column on the screen.
- To display a semicolon on a text line, insert a backslash immediately before it, for example \;

To load the User Defined Screen:

- 1. Click the User Defined Screen (Legacy) button on the Utilities tab.
- 2. Use the **File Select** list box to select the text file you created; if it is not visible in the list, click **Add** and locate it.
- **3.** Once selected the user defined screen will open.

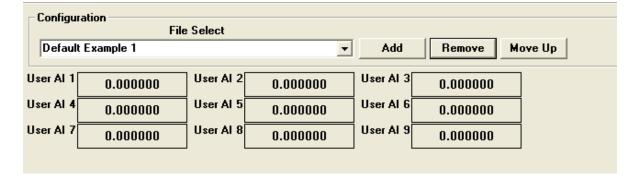


Figure 6-10. User-Defined Screen Configuration

Notes:

- You can optionally delete a text file from the list by highlighting it and clicking **Remove**.
- You can rearrange the file's position in the list using the Move Up button.

If you have an example text file called "simple example.txt" that looks like this:

```
!anything following an exclamation point in column 1 is treated as a comment text starting a line not preceded by an exclamation point is displayed "as is"

My First Label; IO_1.HWAIs_1.HWAI_86; My Second Label; IO_1.HWAIs_1.HWAI_87

My Third Label; IO_1.HWAIs_1.HWAI_88; My Fourth Label; IO_1.HWAIs_1.HWAI_89

here is some more text

My Fourth Label; IO_1.HWAIS_HWAI_90

Here is a semicolon printed as text \;
```

When you load it into the user-defined display, it looks like this.

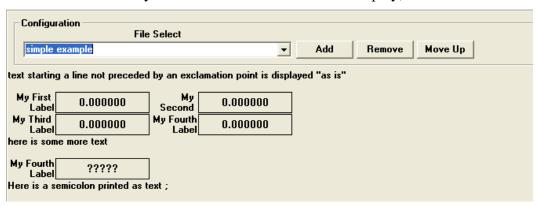


Figure 6-11. User-Defined Screen

Appendix C – Measurement Canada Inspection

Verifying the Integrity of the Station Manager 6-Run Application

To verify the integrity of the RTU application requires the authentication code generation utility (**bootscan.exe**) and the batch program **AuditSMApplication.bat**. Both of these are provided when you purchase the RTU application.

The Station Manager 6-Run application exists in file form within the RTU as **bootfile.pro**. Within this file are three programs (POUs) that make up the controlled (certified) code. The NOA / MAL documents include the authentication codes for these three programs at the time Measurement Canada approved the application.

To verify the Station Manager 6-Run application:

- 1. Run the AuditSMApplication.bat program.
- **2.** The program uploads **bootfile.pro** from the RTU to your PC and runs the **bootscan** utility to generate the authentication codes, and then opens the file with codes for verification.
- **3.** The program allows you to step through the verification process.

Unlocking the Station Manager 6-Run Application

Once the RTU logs a specified number of events (alarms and or audited signal changes) the Station Manager 6-Run application locks and prevents any additional changes. To "unlock" the RTU, you must recertify it. To do this:

- **1.** Attach a ControlWave Micro serial line to the local comport.
- **2.** Retrieve the audit data:
 - a. Go to the **Historical** tab.
 - b. Select Collect Local Logs.
 - **c.** Specify the desired path to save the Audit file.
 - d. Select Audit from the list.
 - e. Click the **Start Collect** button and wait for it to finish.
 - f. Click Convert to CSV (this saves the collected Audit data to a CSV format in the folder specified by Storage Folder.)
 - g. This operation stores a list of corresponding signals in a file called "Modbus MRMS_4_20.xls" located in the documentation folder under the Station Manager folder in the program data section. (Use the link in the start menu short cuts to go there.)
- **3.** Once satisfied, to allow further changes, click the **Measurement** Tab.

- 4. Select Status/Configuration.
- **5.** Select the site name from the tree on the left (root of the tree).
- 6. On the first page at the bottom click **Reset Audit and Allow**Additional Entries.
- **7.** Click **Continue** on the pop up dialogue box to confirm this is your intention.
- **8.** The Audit and the Alarm counts should now be reset and the dialogue should close.

Identifying Legally Relevant Parameters and Verification Triggering Events (VTEs)

Legally Relevant Parameters refer to parameters which the Station Manager 6-Run application monitors for changes. When you modify any legally relevant parameter, the application stores an event entry in the audit log.

There is a special **subset** of the legally relevant parameters which you cannot modify without generating a Verification Triggering Event (VTE). Under Measurement Canada regulations, if you modify one of these parameters, the application generates a VTE and Measurement Canada must verify the device before it can be used or returned to service.

Legally Relevant Parameters that You Can Modify Without Generating a VTE

When you modify values of any of the Legally Relevant Parameters listed in *Table C-1*, the application stores an event entry in the audit log but does **not** generate a Verification Triggering Event (VTE).

Table C-1. Legally Relevant Parameters that are not Verification Triggering Events

Signal	Description
FC.STATION_1_ATMOS	Station Configuration
FC.STATION_1_ATMOS_UNITS	Station Configuration
FC.STATION_1_BASEPRES	Station Configuration
FC.STATION_1_BASEPRES_UNITS	Station Configuration
FC.STATION_1_BASETEMP	Station Configuration
FC.STATION_1_BASETEMP_UNITS	Station Configuration
FC.STATION_1_GCSTREAM	Station Configuration
FC.STATION_1_ForceFixed	Station Configuration
FC.STATION_2_ATMOS	Station Configuration
FC.STATION_2_ATMOS_UNITS	Station Configuration
FC.STATION_2_BASEPRES	Station Configuration
FC.STATION_2_BASEPRES_UNITS	Station Configuration

Issued: May-2016

Signal	Description
FC.STATION_2_BASETEMP	Station Configuration
FC.STATION_2_BASETEMP_UNITS	Station Configuration
FC.STATION_2_GCSTREAM	Station Configuration
FC.STATION 2 ForceFixed	Station Configuration
FC.STATION 3 ATMOS	Station Configuration
FC.STATION_3_ATMOS_UNITS	Station Configuration
FC.STATION 3 BASEPRES	Station Configuration
FC.STATION 3 BASEPRES UNITS	Station Configuration
FC.STATION 3 BASETEMP	Station Configuration
FC.STATION 3 BASETEMP UNITS	Station Configuration
FC.STATION_3_GCSTREAM	Station Configuration
FC.STATION_3_ForceFixed	Station Configuration
FC.STATION 4 ATMOS	Station Configuration
FC.STATION_4_ATMOS_UNITS	Station Configuration
FC.STATION 4 BASEPRES	Station Configuration
FC.STATION 4 BASEPRES UNITS	Station Configuration
FC.STATION_4_BASETEMP	Station Configuration
FC.STATION_4_BASETEMP_UNITS	Station Configuration
FC.STATION_4_AVGUSEWEIGHT	Station Configuration
FC.STATION_4_ForceFixed	Station Configuration
FC.STATION_5_ATMOS	Station Configuration
FC.STATION_5_ATMOS_UNITS	Station Configuration
FC.STATION_5_BASEPRES	Station Configuration
FC.STATION_5_BASEPRES_UNITS	Station Configuration
FC.STATION_5_BASETEMP	Station Configuration
FC.STATION_5_BASETEMP_UNITS	Station Configuration
FC.STATION_5_GCSTREAM	Station Configuration
FC.STATION_5_ForceFixed	Station Configuration
FC.STATION_6_ATMOS	Station Configuration
FC.STATION_6_ATMOS_UNITS	Station Configuration
FC.STATION_6_BASEPRES	Station Configuration
FC.STATION_6_BASEPRES_UNITS	Station Configuration
FC.STATION_6_BASETEMP	Station Configuration
FC.STATION_6_BASETEMP_UNITS	Station Configuration
FC.STATION_6_GCSTREAM	Station Configuration
FC.STATION_6_ForceFixed	Station Configuration
FC.RUN_1_STATION	Run n Station Assignment
FC.FC1.RX_PIPE_DIAM	Run <i>n</i> pipe diameter
FC.FC1.RX_PIPE_UNITS	Run <i>n</i> pipe diameter units
FC.FC1.RX_PIPE_MTRL	Run <i>n</i> pipe material selection
FC.FC1.RX_PIPE_REFTMP	Run <i>n</i> pipe material reference
FC.FC1.ORIF_DIAM_INUSE	temperature Run <i>n</i> orifice diameter setting

Signal	Description
FC.FC1.RX_DPCUT_VAL	Run <i>n</i> differential pressure
FC.FC1.RX DPCUT UNITS	cutoff
FC.FCT.RX_DPCUT_UNITS	Run <i>n</i> differential pressure cutoff units
FC.FC1.RX_ORIF_DIAM	Run <i>n</i> orifice diameter setting
FC.FC1.RX_ORIF_UNITS	Run <i>n</i> orifice diameter setting units
FC.FC1.RX_ORIF_MTRL	Run <i>n</i> orifice material selection
FC.FC1.RX_ORIF_REFTMP	Run <i>n</i> orifice material reference temperature
FC.FC1.RX_LCUTOFF	Run <i>n</i> Linearization Function enable/disable
FC.FC1.RX_AGA7_CFACTOR	Run n AGA7 C factor
FC.FC1.RX_AGA7_KFACTOR	Run <i>n</i> AGA7 K factor (pulses/volume or volume/pulse)
FC.FC1.RX_KFACTOR_TYPE	Run n AGA7 K factor select (pulses/volume or volume/pulse)
FC.FC1.RX_K	Run n K Factor
FC.FC1.RX_VISC	Run n Viscosity
FC.FC1.RX_VISC_UNITS	Run n Viscosity Units
FC.FC1.RX_FL	Run n Fl Factor
FC.FC1.RX_FM	Run <i>n</i> Fm Factor
FC.FC1.RX_CPRIME	Run n C' Factor
FC.FC1.RX_FEXT	Run n F Extension Factor
FC.FC1.RX_OrifTCoef	Run <i>n</i> Orifice Temperature Coefficient
FC.FC1.RX_PipeTCoef	Run <i>n</i> Pipe Temperature Coefficient
FC.FC1.RX_Point	Tap Construction for Run n
FC.FC1.RX_AA_CUTOFF	Run <i>n</i> AutoAdjust low frequency cutoff
FC.AA_1.KM	Run <i>n</i> AutoAdjust K factor Main Rotor
FC.AA_1.KS	Run <i>n</i> AutoAdjust K factor Sense Rotor
FC.AA_1.KMO	Run <i>n</i> AutoAdjust K factor Main Rotor override
FC.RUN_1_AA_MAXACF	Run <i>n</i> AutoAdjust maximum actual volume
FC.AA_1.ABAR	Run <i>n</i> AutoAdjust a bar
FC.AA_1.BTSF	Run <i>n</i> Autoadjust BTSF
FC.AA_1.INCR	Run <i>n</i> Autoadjust flow total scaling factor
FC.FC1.RX_SFREQ_DB	Run <i>n</i> cutoff value in seconds for low frequency PD meters
FC.FC1.RX_ATMOS	Run <i>n</i> atmospheric (barometric) pressure (from FC.STATION_x_ATMOS)
FC.FC1.RX_AP_UNITS	Run <i>n</i> atmospheric pressure units (from

Signal	Description
	FC.STATION_x_ATMOS_UNI
	TS)
FC.FC1.RX_PRESBASE	Run <i>n</i> base pressure (from
	FC.STATION_x_BASEPRES)
FC.FC1.RX_PB_UNITS	Run <i>n</i> base pressure units
	(from FC.STATION x BASEPRES
	UNITS)
FC.FC1.RX TEMPBASE	Run <i>n</i> base temperature (from
_	FC.STATION_x_BASETEMP)
FC.FC1.RX_TB_UNITS	Run <i>n</i> base temperature units
	(from
	FC.STATION_x_BASETEMP_ UNITS)
FC.FC1.RX ForceFixed	Force Fixed GC Values for
T G.I G I.I O'C_I GIGGI IXGG	Run <i>n</i> (from
	FC.STATION_x_ForceFixed)
FC.FC1.RX_C	Run n C Factor
FC.FC1.RX_Fa	Run n Fa Factor
FC.FC1.RX_Y	Run n Y Factor
FC.FC1.RX_KFactor_Units	Run n AGA7 K factor
	(pulses/volume or
50 504 BY M : 4 5: 1	volume/pulse) units
FC.FC1.RX_Maint_Fixed	Run <i>n</i> Use Fixed Maintenance Values
FC.FC1.UFM PFail Enable	Run <i>n</i> Pulse Failure Flow Calc
1 0.1 0 1.01 M_1 1 dil	Enable
FC.FC1.RX_Cor_CalibPress	Run <i>n</i> Coriolis Calibration
FC.FC1.FCalc.Air_Density_Cnst	Pressure Run <i>n</i> Air Density Constant
	Run <i>n</i> Coriolis Pressure
FC.FC1.FCalc.Coriolis_Press_CorrFactor	Correction Factor
FC.RUN 2 STATION	Run <i>n</i> Station Assignment
FC.FC2.RX PIPE DIAM	Run <i>n</i> pipe diameter
FC.FC2.RX PIPE UNITS	Run <i>n</i> pipe diameter units
FC.FC2.RX_PIPE_MTRL	Run <i>n</i> pipe material selection
FC.FC2.RX PIPE REFTMP	Run n pipe material reference
	temperature
FC.FC2.ORIF_DIAM_INUSE	Run <i>n</i> orifice diameter setting
FC.FC2.RX_DPCUT_VAL	Run <i>n</i> differential pressure cutoff
FC.FC2.RX_DPCUT_UNITS	Run <i>n</i> differential pressure cutoff units
IO_1.R2_DP_ZERO	Run <i>n</i> Differential Pressure Zero
FC.FC2.RX_ORIF_DIAM	Run <i>n</i> orifice diameter setting
FC.FC2.RX_ORIF_UNITS	Run <i>n</i> orifice diameter setting units
FC.FC2.RX_ORIF_MTRL	Run <i>n</i> orifice material selection
FC.FC2.RX_ORIF_REFTMP	Run <i>n</i> orifice material
F0 F00 PV 01/70FF	reference temperature
FC.FC2.RX_LCUTOFF	Run <i>n</i> Linearization Function

Signal	Description
	enable/disable
FC.FC2.RX AGA7 CFACTOR	Run n AGA7 C factor
FC.FC2.RX_AGA7_KFACTOR	Run <i>n</i> AGA7 K factor (pulses/volume or volume/pulse)
FC.FC2.RX_KFACTOR_TYPE	Run <i>n</i> AGA7 K factor select (pulses/volume or volume/pulse)
FC.FC2.RX_K	Run <i>n</i> K Factor
FC.FC2.RX_VISC	Run n Viscosity
FC.FC2.RX_VISC_UNITS	Run n Viscosity Units
FC.FC2.RX_FL	Run n Fl Factor
FC.FC2.RX_FM	Run <i>n</i> Fm Factor
FC.FC2.RX_CPRIME	Run n C' Factor
FC.FC2.RX_FEXT	Run <i>n</i> F Extension Factor
FC.FC2.RX_OrifTCoef	Run <i>n</i> Orifice Temperature Coefficient
FC.FC2.RX_PipeTCoef	Run <i>n</i> Pipe Temperature Coefficient
FC.FC2.RX_Point	Tap Construction for Run n
FC.FC2.RX_AA_CUTOFF	Run <i>n</i> AutoAdjust low frequency cutoff
FC.AA_2.KM	Run <i>n</i> AutoAdjust K factor Main Rotor
FC.AA_2.KS	Run <i>n</i> AutoAdjust K factor Sense Rotor
FC.AA_2.KMO	Run <i>n</i> AutoAdjust K factor Main Rotor override
FC.RUN_2_AA_MAXACF	Run <i>n</i> AutoAdjust maximum actual volume
FC.AA_2.ABAR	Run <i>n</i> AutoAdjust a bar
FC.AA_2.BTSF	Run <i>n</i> Autoadjust BTSF
FC.AA_2.INCR	Run <i>n</i> Autoadjust flow total scaling factor
FC.FC2.RX_SFREQ_DB	Run <i>n</i> cutoff value in seconds for low frequency PD meters
FC.FC2.RX_ATMOS	Run <i>n</i> atmospheric (barometric) pressure (from FC.STATION_x_ATMOS)
FC.FC2.RX_AP_UNITS	Run <i>n</i> atmospheric pressure units (from FC.STATION_x_ATMOS_UNITS)
FC.FC2.RX_PRESBASE	Run <i>n</i> base pressure (from FC.STATION_x_BASEPRES)
FC.FC2.RX_PB_UNITS	Run <i>n</i> base pressure units (from FC.STATION_x_BASEPRES_UNITS)
FC.FC2.RX_TEMPBASE	Run <i>n</i> base temperature (from FC.STATION x BASETEMP)
FC.FC2.RX_TB_UNITS	Run <i>n</i> base temperature units

Signal	Description
	(from FC.STATION_x_BASETEMP_ UNITS)
FC.FC2.RX_ForceFixed	Force Fixed GC Values for Run <i>n</i> (from FC.STATION_x_ForceFixed)
FC.FC2.RX_C	Run <i>n</i> C Factor
FC.FC2.RX_Fa	Run <i>n</i> Fa Factor
FC.FC2.RX_Y	Run n Y Factor
FC.FC2.RX_KFactor_Units	Run <i>n</i> AGA7 K factor (pulses/volume or volume/pulse) units
FC.FC2.RX_Maint_Fixed	Run <i>n</i> Use Fixed Maintenance Values
FC.FC2.UFM_PFail_Enable	Run <i>n</i> Pulse Failure Flow Calc Enable
FC.FC2.RX_Cor_CalibPress	Run <i>n</i> Coriolis Calibration Pressure
FC.FC2.FCalc.Air_Density_Cnst	Run <i>n</i> Air Density Constant
FC.FC2.FCalc.Coriolis_Press_CorrFactor	Run <i>n</i> Coriolis Pressure Correction Factor
FC.RUN_3_STATION	Run <i>n</i> Station Assignment
FC.FC3.RX_PIPE_DIAM	Run <i>n</i> pipe diameter
FC.FC3.RX_PIPE_UNITS	Run n pipe diameter units
FC.FC3.RX_PIPE_MTRL	Run <i>n</i> pipe material selection
FC.FC3.RX_PIPE_REFTMP	Run <i>n</i> pipe material reference temperature
FC.FC3.ORIF_DIAM_INUSE	Run <i>n</i> orifice diameter setting
FC.FC3.RX_DPCUT_VAL	Run <i>n</i> differential pressure cutoff
FC.FC3.RX_DPCUT_UNITS	Run <i>n</i> differential pressure cutoff units
IO_1.R3_DP_ZERO	Run <i>n</i> Differential Pressure Zero
FC.FC3.RX_ORIF_DIAM	Run <i>n</i> orifice diameter setting
FC.FC3.RX_ORIF_UNITS	Run <i>n</i> orifice diameter setting units
FC.FC3.RX_ORIF_MTRL	Run <i>n</i> orifice material selection
FC.FC3.RX_ORIF_REFTMP	Run <i>n</i> orifice material reference temperature
FC.FC3.RX_LCUTOFF	Run <i>n</i> Linearization Function enable/disable
FC.FC3.RX_AGA7_CFACTOR	Run n AGA7 C factor
FC.FC3.RX_AGA7_KFACTOR	Run <i>n</i> AGA7 K factor (pulses/volume or volume/pulse)
FC.FC3.RX_KFACTOR_TYPE	Run n AGA7 K factor select (pulses/volume or volume/pulse)
FC.FC3.RX_K	Run n K Factor
FC.FC3.RX_VISC	Run n Viscosity

Signal	Description
FC.FC3.RX_VISC_UNITS	Run n Viscosity Units
FC.FC3.RX FL	Run <i>n</i> Fl Factor
FC.FC3.RX FM	Run <i>n</i> Fm Factor
FC.FC3.RX_CPRIME	Run <i>n</i> C' Factor
FC.FC3.RX FEXT	Run <i>n</i> F Extension Factor
FC.FC3.RX OrifTCoef	
PC.PC3.RX_OIII1C0ei	Run <i>n</i> Orifice Temperature Coefficient
FC.FC3.RX_PipeTCoef	Run n Pipe Temperature
50 500 DV D : :	Coefficient
FC.FC3.RX_Point	Tap Construction for Run n
FC.FC3.RX_AA_CUTOFF	Run n AutoAdjust low
FC.AA 3.KM	frequency cutoff Run <i>n</i> AutoAdjust K factor
1 0.741_0.1tW	Main Rotor
FC.AA_3.KS	Run <i>n</i> AutoAdjust K factor
	Sense Rotor
FC.AA_3.KMO	Run <i>n</i> AutoAdjust K factor Main Rotor override
FC.RUN_3 AA MAXACF	Run <i>n</i> AutoAdjust maximum
	actual volume
FC.AA_3.ABAR	Run <i>n</i> AutoAdjust a bar
FC.AA_2.BTSF	Run n Autoadjust BTSF
FC.AA_3.INCR	Run <i>n</i> Autoadjust flow total
	scaling factor
FC.FC3.RX_SFREQ_DB	Run <i>n</i> cutoff value in seconds
FC.FC3.RX ATMOS	for low frequency PD meters Run <i>n</i> atmospheric
7 6.1 66.1 0(<u>7</u> (111166	(barometric) pressure (from
	FC.STATION_x_ATMOS)
FC.FC3.RX_AP_UNITS	Run <i>n</i> atmospheric pressure
	units (from FC.STATION_x_ATMOS_UNI
	TS)
FC.FC3.RX_PRESBASE	Run <i>n</i> base pressure (from
FO FOO DV DD LINITO	FC.STATION_x_BASEPRES)
FC.FC3.RX_PB_UNITS	Run <i>n</i> base pressure units (from
	FC.STATION x BASEPRES_
	UNITS)
FC.FC3.RX_TEMPBASE	Run <i>n</i> base temperature (from
FC.FC3.RX TB UNITS	FC.STATION_x_BASETEMP) Run <i>n</i> base temperature units
1 C.1 CO.1 (X_1B_C)(1110	(from
	FC.STATION_x_BASETEMP_
F0 F00 BV F Fix. I	UNITS)
FC.FC3.RX_ForceFixed	Force Fixed GC Values for Run <i>n</i> (from
	FC.STATION x ForceFixed)
FC.FC3.RX_C	Run n C Factor
FC.FC3.RX_Fa	Run <i>n</i> Fa Factor
FC.FC3.RX Y	Run n Y Factor
FC.FC3.RX KFactor Units	Run n AGA7 K factor

Signal	Description
	(pulses/volume or
	volume/pulse) units
FC.FC3.RX_Maint_Fixed	Run <i>n</i> Use Fixed Maintenance Values
FC.FC3.UFM_PFail_Enable	Run <i>n</i> Pulse Failure Flow Calc Enable
FC.FC3.RX_Cor_CalibPress	Run <i>n</i> Coriolis Calibration Pressure
FC.FC3.FCalc.Air_Density_Cnst	Run <i>n</i> Air Density Constant
FC.FC3.FCalc.Coriolis_Press_CorrFactor	Run <i>n</i> Coriolis Pressure Correction Factor
FC.RUN_4_STATION	Run <i>n</i> Station Assignment
FC.FC4.RX_PIPE_DIAM	Run <i>n</i> pipe diameter
FC.FC4.RX_PIPE_UNITS	Run <i>n</i> pipe diameter units
FC.FC4.RX_PIPE_MTRL	Run <i>n</i> pipe material selection
FC.FC4.RX_PIPE_REFTMP	Run <i>n</i> pipe material reference temperature
FC.FC4.ORIF_DIAM_INUSE	Run <i>n</i> orifice diameter setting
FC.FC4.RX_DPCUT_VAL	Run <i>n</i> differential pressure cutoff
FC.FC4.RX_DPCUT_UNITS	Run <i>n</i> differential pressure cutoff units
IO_1.R4_DP_ZERO	Run <i>n</i> Differential Pressure Zero
FC.FC4.RX_ORIF_DIAM	Run <i>n</i> orifice diameter setting
FC.FC4.RX_ORIF_UNITS	Run <i>n</i> orifice diameter setting units
FC.FC4.RX_ORIF_MTRL	Run <i>n</i> orifice material selection
FC.FC4.RX_ORIF_REFTMP	Run <i>n</i> orifice material reference temperature
FC.FC4.RX LCUTOFF	Run <i>n</i> Linearization Function
_	enable/disable
FC.FC4.RX_AGA7_CFACTOR	Run <i>n</i> AGA7 C factor
FC.FC4.RX_AGA7_KFACTOR	Run <i>n</i> AGA7 K factor (pulses/volume or volume/pulse)
FC.FC4.RX_KFACTOR_TYPE	Run n AGA7 K factor select (pulses/volume or volume/pulse)
FC.FC4.RX_K	Run n K Factor
FC.FC4.RX_VISC	Run n Viscosity
FC.FC4.RX_VISC_UNITS	Run n Viscosity Units
FC.FC4.RX_FL	Run n Fl Factor
FC.FC4.RX_FM	Run n Fm Factor
FC.FC4.RX_CPRIME	Run n C' Factor
FC.FC4.RX_FEXT	Run n F Extension Factor
FC.FC4.RX_OrifTCoef	Run <i>n</i> Orifice Temperature Coefficient
FC.FC4.RX_PipeTCoef	Run <i>n</i> Pipe Temperature Coefficient

Signal	Description
FC.FC4.RX Point	Tap Construction for Run n
FC.FC4.RX AA CUTOFF	Run <i>n</i> AutoAdjust low
1 0.1 0 1.1 0 _ 1 0 _ 0 1 0 1 1	frequency cutoff
FC.AA_4.KM	Run <i>n</i> AutoAdjust K factor
	Main Rotor
FC.AA_4.KS	Run <i>n</i> AutoAdjust K factor
FC.AA 4.KMO	Sense Rotor Run <i>n</i> AutoAdjust K factor
FC.AA_4.RIVIO	Main Rotor override
FC.RUN 4 AA MAXACF	Run <i>n</i> AutoAdjust maximum
	actual volume
FC.AA_4.ABAR	Run <i>n</i> AutoAdjust a bar
FC.AA_4.BTSF	Run <i>n</i> Autoadjust BTSF
FC.AA 4.INCR	Run <i>n</i> Autoadjust flow total
	scaling factor
FC.FC4.RX_SFREQ_DB	Run <i>n</i> cutoff value in seconds
FO FOA DY ATMON	for low frequency PD meters
FC.FC4.RX_ATMOS	Run <i>n</i> atmospheric (barometric) pressure (from
	FC.STATION x ATMOS)
FC.FC4.RX AP UNITS	Run <i>n</i> atmospheric pressure
	units (from
	FC.STATION_x_ATMOS_UNI
50 504 BV BB50B405	TS)
FC.FC4.RX_PRESBASE	Run <i>n</i> base pressure (from FC.STATION_x_BASEPRES)
FC.FC4.RX_PB_UNITS	Run <i>n</i> base pressure units
	(from
	FC.STATION_x_BASEPRES_ UNITS)
FC.FC4.RX TEMPBASE	Run <i>n</i> base temperature (from
7 6.1 6 1.1 0 <u>7.1 2.1 1.1 1.1 2.1 2.1 2.1 1.1 1.1 2.1 2</u>	FC.STATION x BASETEMP)
FC.FC4.RX_TB_UNITS	Run <i>n</i> base temperature units
	(from
	FC.STATION_x_BASETEMP_
FC.FC4.RX ForceFixed	UNITS) Force Fixed GC Values for
1 C.1 C4.10X_1 order ixed	Run <i>n</i> (from
	FC.STATION_x_ForceFixed)
FC.FC4.RX_C	Run n C Factor
FC.FC4.RX_Fa	Run <i>n</i> Fa Factor
FC.FC4.RX Y	Run n Y Factor
FC.FC4.RX_KFactor_Units	Run n AGA7 K factor
	(pulses/volume or
	volume/pulse) units
FC.FC4.RX_Maint_Fixed	Run <i>n</i> Use Fixed Maintenance
FC.FC4.UFM PFail Enable	Values Run <i>n</i> Pulse Failure Flow Calc
TOUTO4.OFIVI_FFAII_EHADIE	Enable
FC.FC4.RX Cor CalibPress	Run <i>n</i> Coriolis Calibration
	Pressure
FC.FC4.FCalc.Air_Density_Cnst	Run <i>n</i> Air Density Constant
FC.FC4.FCalc.Coriolis_Press_CorrFactor	Run n Coriolis Pressure
	Correction Factor

Signal	Description
FC.RUN_5_STATION	Run <i>n</i> Station Assignment
FC.FC5.RX_PIPE_DIAM	Run <i>n</i> pipe diameter
FC.FC5.RX_PIPE_UNITS	Run <i>n</i> pipe diameter units
FC.FC5.RX_PIPE_MTRL	Run <i>n</i> pipe material selection
FC.FC5.RX_PIPE_REFTMP	Run <i>n</i> pipe material reference
FC.FC5.ORIF DIAM INUSE	temperature Run <i>n</i> orifice diameter setting
	<u> </u>
FC.FC5.RX_DPCUT_VAL	Run <i>n</i> differential pressure cutoff
FC.FC5.RX_DPCUT_UNITS	Run <i>n</i> differential pressure cutoff units
IO_1.R5_DP_ZERO	Run <i>n</i> Differential Pressure Zero
FC.FC5.RX_ORIF_DIAM	Run <i>n</i> orifice diameter setting
FC.FC5.RX_ORIF_UNITS	Run <i>n</i> orifice diameter setting units
FC.FC5.RX_ORIF_MTRL	Run <i>n</i> orifice material selection
FC.FC5.RX_ORIF_REFTMP	Run <i>n</i> orifice material
	reference temperature
FC.FC5.RX_LCUTOFF	Run <i>n</i> Linearization Function enable/disable
FC.FC5.RX AGA7 CFACTOR	Run <i>n</i> AGA7 C factor
FC.FC5.RX AGA7 KFACTOR	Run <i>n</i> AGA7 K factor
	(pulses/volume or volume/pulse)
FC.FC5.RX KFACTOR TYPE	Run <i>n</i> AGA7 K factor select
	(pulses/volume or
FC.FC5.RX K	volume/pulse) Run <i>n</i> K Factor
FC.FC5.RX_VISC	Run <i>n</i> Viscosity
FC.FC5.RX_VISC_UNITS	Run <i>n</i> Viscosity Units
FC.FC5.RX_VI3C_UNITS	Run <i>n</i> FI Factor
FC.FC5.RX_FL FC.FC5.RX_FM	Run <i>n</i> Fm Factor
FC.FC5.RX_CPRIME	Run n C' Factor
FC.FC5.RX_FEXT	Run <i>n</i> F Extension Factor
FC.FC5.RX_OrifTCoef	Run <i>n</i> Orifice Temperature Coefficient
FC.FC5.RX_PipeTCoef	Run <i>n</i> Pipe Temperature Coefficient
FC.FC5.RX_Point	Tap Construction for Run n
FC.FC5.RX_AA_CUTOFF	Run <i>n</i> AutoAdjust low
FC.AA 5.KM	frequency cutoff Run <i>n</i> AutoAdjust K factor
1 0.745_0.11W	Main Rotor
FC.AA_5.KS	Run n AutoAdjust K factor
FC.AA 5.KMO	Sense Rotor Run <i>n</i> AutoAdjust K factor
1 0.7 U0.1(W)	Main Rotor override
FC.RUN_5_AA_MAXACF	Run <i>n</i> AutoAdjust maximum
	actual volume

Signal	Description
FC.AA_5.ABAR	Run <i>n</i> AutoAdjust a bar
FC.AA_5.BTSF	Run <i>n</i> Autoadjust BTSF
FC.AA_5.INCR	Run <i>n</i> Autoadjust flow total scaling factor
FC.FC5.RX_SFREQ_DB	Run <i>n</i> cutoff value in seconds for low frequency PD meters
FC.FC5.RX_ATMOS	Run <i>n</i> atmospheric (barometric) pressure (from FC.STATION x ATMOS)
FC.FC5.RX_AP_UNITS	Run <i>n</i> atmospheric pressure units (from FC.STATION_x_ATMOS_UNITS)
FC.FC5.RX_PRESBASE	Run <i>n</i> base pressure (from FC.STATION x BASEPRES)
FC.FC5.RX_PB_UNITS	Run <i>n</i> base pressure units (from FC.STATION_x_BASEPRES_UNITS)
FC.FC5.RX_TEMPBASE	Run <i>n</i> base temperature (from FC.STATION_x_BASETEMP)
FC.FC5.RX_TB_UNITS	Run <i>n</i> base temperature units (from FC.STATION_x_BASETEMP_UNITS)
FC.FC5.RX_ForceFixed	Force Fixed GC Values for Run n (from FC.STATION x ForceFixed)
FC.FC5.RX_C	Run n C Factor
FC.FC5.RX_Fa	Run <i>n</i> Fa Factor
FC.FC5.RX_Y	Run n Y Factor
FC.FC5.RX_KFactor_Units	Run <i>n</i> AGA7 K factor (pulses/volume or volume/pulse) units
FC.FC5.RX_Maint_Fixed	Run <i>n</i> Use Fixed Maintenance Values
FC.FC5.UFM_PFail_Enable	Run <i>n</i> Pulse Failure Flow Calc Enable
FC.FC5.RX_Cor_CalibPress	Run <i>n</i> Coriolis Calibration Pressure
FC.FC5.FCalc.Air_Density_Cnst	Run <i>n</i> Air Density Constant
FC.FC5.FCalc.Coriolis_Press_CorrFactor	Run <i>n</i> Coriolis Pressure Correction Factor
FC.RUN_6_STATION	Run n Station Assignment
FC.FC6.RX_PIPE_DIAM	Run <i>n</i> pipe diameter
FC.FC6.RX_PIPE_UNITS	Run n pipe diameter units
FC.FC6.RX_PIPE_MTRL	Run n pipe material selection
FC.FC6.RX_PIPE_REFTMP	Run <i>n</i> pipe material reference temperature
FC.FC6.ORIF_DIAM_INUSE	Run <i>n</i> orifice diameter setting
FC.FC6.RX_DPCUT_VAL	Run <i>n</i> differential pressure cutoff

Signal	Description
FC.FC6.RX DPCUT UNITS	Run <i>n</i> differential pressure
	cutoff units
IO_1.R6_DP_ZERO	Run <i>n</i> Differential Pressure
FC.FC6.RX ORIF DIAM	Zero Run <i>n</i> orifice diameter setting
	_
FC.FC6.RX_ORIF_UNITS	Run <i>n</i> orifice diameter setting units
FC.FC6.RX_ORIF_MTRL	Run <i>n</i> orifice material selection
FC.FC6.RX_ORIF_REFTMP	Run <i>n</i> orifice material reference temperature
FC.FC6.RX_LCUTOFF	Run <i>n</i> Linearization Function enable/disable
FC.FC6.RX_AGA7_CFACTOR	Run n AGA7 C factor
FC.FC6.RX_AGA7_KFACTOR	Run n AGA7 K factor
	(pulses/volume or
FO FOR DV MENOTOD TYPE	volume/pulse) Run <i>n</i> AGA7 K factor select
FC.FC6.RX_KFACTOR_TYPE	(pulses/volume or
	volume/pulse)
FC.FC6.RX K	Run <i>n</i> K Factor
FC.FC6.RX_VISC	Run <i>n</i> Viscosity
FC.FC6.RX_VISC_UNITS	Run n Viscosity Units
FC.FC6.RX_FL	Run n Fl Factor
FC.FC6.RX_FM	Run n Fm Factor
FC.FC6.RX_CPRIME	Run n C' Factor
FC.FC6.RX_FEXT	Run n F Extension Factor
FC.FC6.RX_OrifTCoef	Run <i>n</i> Orifice Temperature Coefficient
FC.FC6.RX_PipeTCoef	Run <i>n</i> Pipe Temperature Coefficient
FC.FC6.RX_Point	Tap Construction for Run n
FC.FC6.RX_AA_CUTOFF	Run <i>n</i> AutoAdjust low frequency cutoff
FC.AA_6.KM	Run <i>n</i> AutoAdjust K factor Main Rotor
FC.AA_6.KS	Run <i>n</i> AutoAdjust K factor Sense Rotor
FC.AA_6.KMO	Run <i>n</i> AutoAdjust K factor Main Rotor override
FC.RUN_6_AA_MAXACF	Run n AutoAdjust maximum
FC.AA 6.ABAR	actual volume Run <i>n</i> AutoAdjust a bar
FC.AA 6.BTSF	Run <i>n</i> Autoadjust BTSF
FC.AA 6.INCR	Run <i>n</i> Autoadjust flow total
_	scaling factor
FC.FC6.RX_SFREQ_DB	Run <i>n</i> cutoff value in seconds for low frequency PD meters
FC.FC6.RX_ATMOS	Run <i>n</i> atmospheric
	(barometric) pressure (from FC.STATION_x_ATMOS)
FC.FC6.RX_AP_UNITS	Run <i>n</i> atmospheric pressure units (from

Signal	Description
	FC.STATION_x_ATMOS_UNI
FC.FC6.RX_PRESBASE	Run <i>n</i> base pressure (from FC.STATION x BASEPRES)
FC.FC6.RX_PB_UNITS	Run <i>n</i> base pressure units (from FC.STATION_x_BASEPRES_UNITS)
FC.FC6.RX_TEMPBASE	Run <i>n</i> base temperature (from FC.STATION_x_BASETEMP)
FC.FC6.RX_TB_UNITS	Run <i>n</i> base temperature units (from FC.STATION_x_BASETEMP_UNITS)
FC.FC6.RX_ForceFixed	Force Fixed GC Values for Run <i>n</i> (from FC.STATION_x_ForceFixed)
FC.FC6.RX_C	Run n C Factor
FC.FC6.RX_Fa	Run <i>n</i> Fa Factor
FC.FC6.RX_Y	Run <i>n</i> Y Factor
FC.FC6.RX_KFactor_Units	Run <i>n</i> AGA7 K factor (pulses/volume or volume/pulse) units
FC.FC6.RX_Maint_Fixed	Run <i>n</i> Use Fixed Maintenance Values
FC.FC6.UFM_PFail_Enable	Run <i>n</i> Pulse Failure Flow Calc Enable
FC.FC6.RX_Cor_CalibPress	Run <i>n</i> Coriolis Calibration Pressure
FC.FC6.FCalc.Air_Density_Cnst	Run <i>n</i> Air Density Constant
FC.FC6.FCalc.Coriolis_Press_CorrFactor	Run <i>n</i> Coriolis Pressure Correction Factor
FC.FC1.RX_FLOW_RATE_UNITS	Run Configuration
FC.FC1.RX_ENERGY_RATE_UNITS	Run Configuration
FC.FC1.RX_ENERGY_RATE_TIME	Run Configuration
FC.FC1.RX_UCFLOW_RATE_UNITS	Run Configuration
FC.FC1.RX_MASS_RATE_Units	Run Configuration
FC.FC1.RX_MASS_RATE_Time	Run Configuration
FC.FC2.RX_FLOW_RATE_UNITS	Run Configuration
FC.FC2.RX_ENERGY_RATE_UNITS	Run Configuration
FC.FC2.RX_ENERGY_RATE_TIME	Run Configuration
FC.FC2.RX_UCFLOW_RATE_UNITS	Run Configuration
FC.FC2.RX_MASS_RATE_Units	Run Configuration
FC.FC2.RX_MASS_RATE_Time	Run Configuration
FC.FC3.RX_FLOW_RATE_UNITS	Run Configuration
FC.FC3.RX_ENERGY_RATE_UNITS	Run Configuration
FC.FC3.RX_ENERGY_RATE_TIME	Run Configuration
FC.FC3.RX_UCFLOW_RATE_UNITS	Run Configuration
FC.FC3.RX_MASS_RATE_Units	Run Configuration

Signal	Description
FC.FC3.RX_MASS_RATE_Time	Run Configuration
FC.FC4.RX_FLOW_RATE_UNITS	Run Configuration
FC.FC4.RX_ENERGY_RATE_UNITS	Run Configuration
FC.FC4.RX_ENERGY_RATE_TIME	Run Configuration
FC.FC4.RX_UCFLOW_RATE_UNITS	Run Configuration
FC.FC4.RX_MASS_RATE_Units	Run Configuration
FC.FC4.RX_MASS_RATE_Time	Run Configuration
FC.FC5.RX_FLOW_RATE_UNITS	Run Configuration
FC.FC5.RX_ENERGY_RATE_UNITS	Run Configuration
FC.FC5.RX_ENERGY_RATE_TIME	Run Configuration
FC.FC5.RX_UCFLOW_RATE_UNITS	Run Configuration
FC.FC5.RX_MASS_RATE_Units	Run Configuration
FC.FC5.RX_MASS_RATE_Time	Run Configuration
FC.FC6.RX_FLOW_RATE_UNITS	Run Configuration
FC.FC6.RX_ENERGY_RATE_UNITS	Run Configuration
FC.FC6.RX_ENERGY_RATE_TIME	Run Configuration
FC.FC6.RX_UCFLOW_RATE_UNITS	Run Configuration
FC.FC6.RX_MASS_RATE_Units	Run Configuration
FC.FC6.RX_MASS_RATE_Time	Run Configuration
FC.ST1_Flow_Rate_Units	Station Configuration
FC.ST1_Energy_Rate_Units	Station Configuration
FC.ST1_Energy_Rate_Time	Station Configuration
FC.ST1_UCFlow_Rate_Units	Station Configuration
FC.ST2_Flow_Rate_Units	Station Configuration
FC.ST2_Energy_Rate_Units	Station Configuration
FC.ST2_Energy_Rate_Time	Station Configuration
FC.ST2_UCFlow_Rate_Units	Station Configuration
FC.ST3_Flow_Rate_Units	Station Configuration
FC.ST3_Energy_Rate_Units	Station Configuration
FC.ST3_Energy_Rate_Time	Station Configuration
FC.ST3_UCFlow_Rate_Units	Station Configuration
FC.ST4_Flow_Rate_Units	Station Configuration
FC.ST4_Energy_Rate_Units	Station Configuration
FC.ST4_Energy_Rate_Time	Station Configuration
FC.ST4_UCFlow_Rate_Units	Station Configuration
FC.ST5_Flow_Rate_Units	Station Configuration
FC.ST5_Energy_Rate_Units	Station Configuration
FC.ST5_Energy_Rate_Time	Station Configuration
FC.ST5_UCFlow_Rate_Units	Station Configuration
FC.ST6_Flow_Rate_Units	Station Configuration
FC.ST6_Energy_Rate_Units	Station Configuration
FC.ST6_Energy_Rate_Time	Station Configuration

FC.ST6_UCFlow_Rate_Units PG_GC.GC_1.GC_1.FIXED_BTU PG_GC.GC_1.GC_1.FIXED_BTU PG_GC.GC_1.GC_1.FIXED_SG Gas Chromatograph Configuration PG_GC.GC_1.GC_1.FIXED_N2 PG_GC.GC_1.GC_1.FIXED_N2 PG_GC.GC_1.GC_1.FIXED_CO2 Gas Chromatograph Configuration PG_GC.GC_1.GC_1.FIXED_CO2 Gas Chromatograph Configuration PG_GC.GC_1.GC_1.FIXED_CH4 PG_GC.GC_1.GC_1.FIXED_CH4 PG_GC.GC_1.GC_1.FIXED_C2 Gas Chromatograph Configuration PG_GC.GC_1.GC_1.FIXED_C3 Gas Chromatograph Configuration PG_GC.GC_1.GC_1.FIXED_ICA Gas Chromatograph Configuration PG_GC.GC_1.GC_1.FIXED_NC4 Gas Chromatograph Configuration PG_GC.GC_1.GC_1.FIXED_NC4 PG_GC.GC_1.GC_1.FIXED_NC4 PG_GC.GC_1.GC_1.FIXED_NC5 Gas Chromatograph Configuration PG_GC.GC_1.GC_1.FIXED_NC6 Gas Chromatograph Configuration PG_GC.GC_1.GC_1.FIXED_NC6 Gas Chromatograph Configuration PG_GC.GC_1.GC_1.FIXED_NC6 Gas Chromatograph Configuration PG_GC.GC_1.GC_1.FIXED_NC8 Gas Chromatograph Configuration PG_GC.GC_1.GC_1.FIXED_NC8 Gas Chromatograph Configuration PG_GC.GC_1.GC_1.FIXED_NC8 Gas Chromatograph Configuration PG_GC.GC_1.GC_1.FIXED_NC9 Gas Chromatograph Configuration PG_GC.GC_1.GC_1.FIXED_NC10 Gas Chromatograph Configuration PG_GC.GC_1.GC_1.FIXED_H2 Gas Chromatograph Configuration PG_GC.GC_1.GC_1.FIXED_AR Gas Chromatograph Configuration PG_GC.GC_1.GC_1.FIXED_AR Gas Chromatograph Configuration PG_GC.GC_1.GC_1.FIXED_GOPLUS Gas Chromatograph Configuration PG_GC.GC_1.GC_1.FIXED_BTUSAT Gas Chromatograph Configuration PG_GC.GC_1.GC_1.FIXED_BTUSAT Gas Chromatograph Configuration Gas Chromatograph Conf	Signal	Description
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PG_GC.GC_1.GC_1.FIXED_H2O PG_GC.GC_1.GC_1.FIXED_H2S PG_GC.GC_1.GC_1.FIXED_H2S PG_GC.GC_1.GC_1.FIXED_H2 PG_GC.GC_1.GC_1.FIXED_H2 PG_GC.GC_1.GC_1.FIXED_CO PG_GC.GC_1.GC_1.FIXED_CO PG_GC.GC_1.GC_1.FIXED_O2 PG_GC.GC_1.GC_1.FIXED_HE PG_GC.GC_1.GC_1.FIXED_HE PG_GC.GC_1.GC_1.FIXED_HE PG_GC.GC_1.GC_1.FIXED_HE PG_GC.GC_1.GC_1.FIXED_AR PG_GC.GC_1.GC_1.FIXED_AR PG_GC.GC_1.GC_1.FIXED_C6PLUS PG_GC.GC_1.GC_1.FIXED_C6PLUS PG_GC.GC_1.GC_1.FIXED_C9PLUS PG_GC.GC_1.GC_1.FIXED_BTUSAT PG_GC.GC_1.GC_1.FIXED_BTUSAT PG_GC.GC_1.GC_2.FIXED_BTU PG_GC.GC_1.GC_2.FIXED_BTU Gas Chromatograph Configuration PG_GC.GC_1.GC_2.FIXED_BTU Gas Chromatograph Configuration PG_GC.GC_1.GC_2.FIXED_BTU Gas Chromatograph Configuration	PG GC.GC 1.GC 1.FIXED NC10	
PG_GC.GC_1.GC_1.FIXED_H2S PG_GC.GC_1.GC_1.FIXED_H2 PG_GC.GC_1.GC_1.FIXED_H2 PG_GC.GC_1.GC_1.FIXED_CO PG_GC.GC_1.GC_1.FIXED_CO PG_GC.GC_1.GC_1.FIXED_O2 PG_GC.GC_1.GC_1.FIXED_HE PG_GC.GC_1.GC_1.FIXED_HE PG_GC.GC_1.GC_1.FIXED_HE PG_GC.GC_1.GC_1.FIXED_AR PG_GC.GC_1.GC_1.FIXED_AR PG_GC.GC_1.GC_1.FIXED_C6PLUS PG_GC.GC_1.GC_1.FIXED_C6PLUS PG_GC.GC_1.GC_1.FIXED_C9PLUS PG_GC.GC_1.GC_1.FIXED_BTUSAT PG_GC.GC_1.GC_1.FIXED_BTUSAT PG_GC.GC_1.GC_2.FIXED_BTU PG_GC.GC_1.GC_2.FIXED_BTU PG_GC.GC_1.GC_2.FIXED_BTU Gas Chromatograph Configuration PG_GC.GC_1.GC_2.FIXED_BTU Gas Chromatograph Configuration		
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PG_GC.GC_1.GC_1.FIXED_H2 PG_GC.GC_1.GC_1.FIXED_CO PG_GC.GC_1.GC_1.FIXED_CO PG_GC.GC_1.GC_1.FIXED_O2 PG_GC.GC_1.GC_1.FIXED_HE PG_GC.GC_1.GC_1.FIXED_HE PG_GC.GC_1.GC_1.FIXED_AR PG_GC.GC_1.GC_1.FIXED_AR PG_GC.GC_1.GC_1.FIXED_C6PLUS PG_GC.GC_1.GC_1.FIXED_C6PLUS PG_GC.GC_1.GC_1.FIXED_C9PLUS PG_GC.GC_1.GC_1.FIXED_BTUSAT PG_GC.GC_1.GC_1.FIXED_BTUSAT PG_GC.GC_1.GC_2.FIXED_BTU Gas Chromatograph Configuration PG_GC.GC_1.GC_1.FIXED_BTUSAT Gas Chromatograph Configuration PG_GC.GC_1.GC_1.FIXED_BTUSAT Gas Chromatograph Configuration PG_GC.GC_1.GC_2.FIXED_BTU Gas Chromatograph Configuration PG_GC.GC_1.GC_2.FIXED_BTU Gas Chromatograph Configuration		
PG_GC.GC_1.GC_1.FIXED_H2 PG_GC.GC_1.GC_1.FIXED_CO PG_GC.GC_1.GC_1.FIXED_CO Gas Chromatograph Configuration PG_GC.GC_1.GC_1.FIXED_O2 Gas Chromatograph Configuration PG_GC.GC_1.GC_1.FIXED_HE Gas Chromatograph Configuration PG_GC.GC_1.GC_1.FIXED_AR Gas Chromatograph Configuration PG_GC.GC_1.GC_1.FIXED_C6PLUS Gas Chromatograph Configuration PG_GC.GC_1.GC_1.FIXED_C9PLUS Gas Chromatograph Configuration PG_GC.GC_1.GC_1.FIXED_BTUSAT Gas Chromatograph Configuration PG_GC.GC_1.GC_1.FIXED_BTUSAT Gas Chromatograph Configuration PG_GC.GC_1.GC_2.FIXED_BTU Gas Chromatograph Configuration PG_GC.GC_1.GC_2.FIXED_BTU Gas Chromatograph Configuration PG_GC.GC_1.GC_2.FIXED_BTU Gas Chromatograph	PG_GC.GC_1.GC_1.FIXED_H2S	
PG_GC.GC_1.GC_1.FIXED_CO PG_GC.GC_1.GC_1.FIXED_O2 PG_GC.GC_1.GC_1.FIXED_O2 PG_GC.GC_1.GC_1.FIXED_HE PG_GC.GC_1.GC_1.FIXED_HE PG_GC.GC_1.GC_1.FIXED_AR PG_GC.GC_1.GC_1.FIXED_AR PG_GC.GC_1.GC_1.FIXED_C6PLUS PG_GC.GC_1.GC_1.FIXED_C6PLUS PG_GC.GC_1.GC_1.FIXED_C9PLUS PG_GC.GC_1.GC_1.FIXED_C9PLUS PG_GC.GC_1.GC_1.FIXED_BTUSAT PG_GC.GC_1.GC_1.FIXED_BTUSAT PG_GC.GC_1.GC_2.FIXED_BTU PG_GC.GC_1.GC_2.FIXED_BTU Gas Chromatograph Configuration PG_GC.GC_1.GC_2.FIXED_BTU Gas Chromatograph	PG GC GC 1 GC 1 FIXED H2	
PG_GC.GC_1.GC_1.FIXED_CO PG_GC.GC_1.GC_1.FIXED_O2 Gas Chromatograph Configuration PG_GC.GC_1.GC_1.FIXED_HE Gas Chromatograph Configuration PG_GC.GC_1.GC_1.FIXED_AR Gas Chromatograph Configuration PG_GC.GC_1.GC_1.FIXED_C6PLUS PG_GC.GC_1.GC_1.FIXED_C6PLUS PG_GC.GC_1.GC_1.FIXED_C9PLUS Gas Chromatograph Configuration PG_GC.GC_1.GC_1.FIXED_BTUSAT Gas Chromatograph Configuration PG_GC.GC_1.GC_1.FIXED_BTUSAT Gas Chromatograph Configuration PG_GC.GC_1.GC_2.FIXED_BTU Gas Chromatograph Configuration PG_GC.GC_1.GC_2.FIXED_BTU Gas Chromatograph Configuration PG_GC.GC_1.GC_2.FIXED_BTU Gas Chromatograph	FG_GC.GC_1.6C_1.1	
PG_GC.GC_1.GC_1.FIXED_O2 PG_GC.GC_1.GC_1.FIXED_HE PG_GC.GC_1.GC_1.FIXED_HE PG_GC.GC_1.GC_1.FIXED_AR PG_GC.GC_1.GC_1.FIXED_AR PG_GC.GC_1.GC_1.FIXED_C6PLUS PG_GC.GC_1.GC_1.FIXED_C6PLUS PG_GC.GC_1.GC_1.FIXED_C9PLUS PG_GC.GC_1.GC_1.FIXED_BTUSAT PG_GC.GC_1.GC_1.FIXED_BTUSAT PG_GC.GC_1.GC_2.FIXED_BTU PG_GC.GC_1.GC_2.FIXED_BTU Gas Chromatograph Configuration PG_GC.GC_1.GC_2.FIXED_BTU Gas Chromatograph Configuration PG_GC.GC_1.GC_2.FIXED_BTU Gas Chromatograph	PG GC.GC 1.GC 1.FIXED CO	
Configuration PG_GC.GC_1.GC_1.FIXED_HE PG_GC.GC_1.GC_1.FIXED_AR PG_GC.GC_1.GC_1.FIXED_AR PG_GC.GC_1.GC_1.FIXED_C6PLUS PG_GC.GC_1.GC_1.FIXED_C9PLUS PG_GC.GC_1.GC_1.FIXED_C9PLUS PG_GC.GC_1.GC_1.FIXED_BTUSAT PG_GC.GC_1.GC_1.FIXED_BTUSAT PG_GC.GC_1.GC_2.FIXED_BTU Gas Chromatograph Configuration PG_GC.GC_1.GC_2.FIXED_BTU Gas Chromatograph Configuration PG_GC.GC_1.GC_2.FIXED_BTU Gas Chromatograph		
PG_GC.GC_1.GC_1.FIXED_HE PG_GC.GC_1.GC_1.FIXED_AR PG_GC.GC_1.GC_1.FIXED_AR PG_GC.GC_1.GC_1.FIXED_C6PLUS PG_GC.GC_1.GC_1.FIXED_C9PLUS PG_GC.GC_1.GC_1.FIXED_C9PLUS PG_GC.GC_1.GC_1.FIXED_BTUSAT PG_GC.GC_1.GC_2.FIXED_BTU PG_GC.GC_1.GC_2.FIXED_BTU Gas Chromatograph Configuration PG_GC.GC_1.GC_2.FIXED_BTU Gas Chromatograph Configuration PG_GC.GC_1.GC_2.FIXED_BTU Gas Chromatograph	PG_GC.GC_1.GC_1.FIXED_02	
Configuration PG_GC.GC_1.GC_1.FIXED_AR PG_GC.GC_1.GC_1.FIXED_C6PLUS PG_GC.GC_1.GC_1.FIXED_C9PLUS PG_GC.GC_1.GC_1.FIXED_C9PLUS PG_GC.GC_1.GC_1.FIXED_BTUSAT PG_GC.GC_1.GC_1.FIXED_BTUSAT PG_GC.GC_1.GC_2.FIXED_BTU Gas Chromatograph Configuration PG_GC.GC_1.GC_2.FIXED_BTU Gas Chromatograph Configuration	D2 00 00 4 00 4 5 N 5 D 1 1 5	
PG_GC.GC_1.GC_1.FIXED_AR PG_GC.GC_1.GC_1.FIXED_C6PLUS PG_GC.GC_1.GC_1.FIXED_C6PLUS PG_GC.GC_1.GC_1.FIXED_C9PLUS PG_GC.GC_1.GC_1.FIXED_BTUSAT PG_GC.GC_1.GC_1.FIXED_BTUSAT PG_GC.GC_1.GC_2.FIXED_BTU PG_GC.GC_1.GC_2.FIXED_BTU Gas Chromatograph Configuration PG_GC.GC_1.GC_2.FIXED_BTU Gas Chromatograph	PG_GC.GC_1.GC_1.FIXED_HE	
Configuration PG_GC.GC_1.GC_1.FIXED_C6PLUS Gas Chromatograph Configuration PG_GC.GC_1.GC_1.FIXED_C9PLUS Gas Chromatograph Configuration PG_GC.GC_1.GC_1.FIXED_BTUSAT Gas Chromatograph Configuration PG_GC.GC_1.GC_2.FIXED_BTU Gas Chromatograph Configuration	PG GC GC 1 GC 1 FIXED AR	
PG_GC.GC_1.GC_1.FIXED_C6PLUS Gas Chromatograph Configuration PG_GC.GC_1.GC_1.FIXED_C9PLUS Gas Chromatograph Configuration PG_GC.GC_1.GC_1.FIXED_BTUSAT Gas Chromatograph Configuration PG_GC.GC_1.GC_2.FIXED_BTU Gas Chromatograph Configuration	1 0_00.00_1.00_1.1 IXED_AIX	
Configuration PG_GC.GC_1.GC_1.FIXED_C9PLUS Gas Chromatograph Configuration PG_GC.GC_1.GC_1.FIXED_BTUSAT Gas Chromatograph Configuration PG_GC.GC_1.GC_2.FIXED_BTU Gas Chromatograph	PG_GC.GC_1.GC_1.FIXED_C6PLUS	
Configuration PG_GC.GC_1.GC_1.FIXED_BTUSAT Gas Chromatograph Configuration PG_GC.GC_1.GC_2.FIXED_BTU Gas Chromatograph		Configuration
PG_GC.GC_1.GC_1.FIXED_BTUSAT Gas Chromatograph Configuration PG_GC.GC_1.GC_2.FIXED_BTU Gas Chromatograph	PG_GC.GC_1.GC_1.FIXED_C9PLUS	
PG_GC.GC_1.GC_2.FIXED_BTU Configuration Gas Chromatograph	PO 00 00 4 00 4 51/55 BTHOAT	
PG_GC.GC_1.GC_2.FIXED_BTU Gas Chromatograph	PG_GC.GC_1.GC_1.FIXED_BTUSAT	
	PG GC GC 1 GC 2 FIXED BTILL	
	. 5_55.55_1.55_2.17.25_516	Configuration

Signal	Description
PG_GC.GC_1.GC_2.FIXED_SG	Gas Chromatograph
1 0_00.00_1.00_2.1 1XLD_00	Configuration
PG_GC.GC_1.GC_2.FIXED_N2	Gas Chromatograph
1 0_00.00_1.00_2.1 IXLD_IV2	Configuration
PG_GC.GC_1.GC_2.FIXED_CO2	Gas Chromatograph
1 0_00.00_1.00_2.1 IXLD_002	Configuration
PG_GC.GC_1.GC_2.FIXED_CH4	Gas Chromatograph
1 0_00.00_1.00_2.1 1/LD_0114	Configuration
PG_GC.GC_1.GC_2.FIXED_C2	Gas Chromatograph
1 0_00.00_1.00_2 (%128_02	Configuration
PG_GC.GC_1.GC_2.FIXED_C3	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.FIXED_IC4	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.FIXED_NC4	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.FIXED_IC5	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.FIXED_NC5	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.FIXED_NC6	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.FIXED_NC7	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.FIXED_NC8	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.FIXED_NC9	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.FIXED_NC10	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.FIXED_H2O	Gas Chromatograph
DO 00 00 1 00 0 ENTER 1100	Configuration
PG_GC.GC_1.GC_2.FIXED_H2S	Gas Chromatograph
DO 00 00 4 00 0 FINED 110	Configuration
PG_GC.GC_1.GC_2.FIXED_H2	Gas Chromatograph
DC CC CC 4 CC 2 FIVED CC	Configuration
PG_GC.GC_1.GC_2.FIXED_CO	Gas Chromatograph
PG_GC.GC_1.GC_2.FIXED_02	Configuration Gas Chromatograph
FG_GC.GC_1.GC_2.FIXED_O2	Configuration
PG_GC.GC_1.GC_2.FIXED_HE	Gas Chromatograph
1 0_00.00_1.00_2.FIXED_HE	Configuration
PG_GC.GC_1.GC_2.FIXED_AR	Gas Chromatograph
1 0_00.00_1.00_2.1 IALD_AIX	Configuration
PG_GC.GC_1.GC_2.FIXED_C6PLUS	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.FIXED_C9PLUS	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.FIXED_BTUSAT	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.FIXED_BTU	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.FIXED_SG	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.FIXED_N2	Gas Chromatograph
	Configuration

Signal	Description
PG_GC.GC_1.GC_3.FIXED_CO2	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.FIXED_CH4	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.FIXED_C2	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.FIXED_C3	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.FIXED_IC4	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.FIXED_NC4	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.FIXED_IC5	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.FIXED_NC5	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.FIXED_NC6	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.FIXED_NC7	Gas Chromatograph
DO 00 00 4 00 0 5 1/5 1/20	Configuration
PG_GC.GC_1.GC_3.FIXED_NC8	Gas Chromatograph
DO 00 00 4 00 0 EIVED NO0	Configuration
PG_GC.GC_1.GC_3.FIXED_NC9	Gas Chromatograph
DC CC CC 1 CC 2 FIVED NC10	Configuration
PG_GC.GC_1.GC_3.FIXED_NC10	Gas Chromatograph
PG_GC.GC_1.GC_3.FIXED_H2O	Configuration Gas Chromatograph
FG_GC.GC_1.GC_3.FIXED_1120	Configuration
PG_GC.GC_1.GC_3.FIXED_H2S	Gas Chromatograph
1 0_00.00_1.00_0.1	Configuration
PG_GC.GC_1.GC_3.FIXED_H2	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.FIXED_CO	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.FIXED_O2	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.FIXED_HE	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.FIXED_AR	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.FIXED_C6PLUS	Gas Chromatograph
DC CC CC 1 CC 2 FIVED CODULO	Configuration
PG_GC.GC_1.GC_3.FIXED_C9PLUS	Gas Chromatograph
PG_GC.GC_1.GC_3.FIXED_BTUSAT	Configuration Cas Chromatograph
FG_GC.GC_1.GC_3.FIXED_B1U3A1	Gas Chromatograph Configuration
PG_GC.GC_1.GC_4.FIXED_BTU	Gas Chromatograph
0_00.00_1.00_4.1	Configuration
PG_GC.GC_1.GC_4.FIXED_SG	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.FIXED_N2	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.FIXED_CO2	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.FIXED_CH4	Gas Chromatograph
_	Configuration

Signal	Description
PG_GC.GC_1.GC_4.FIXED_C2	Gas Chromatograph
1 0_00.00_1.00_4.1 IXEB_02	Configuration
PG_GC.GC_1.GC_4.FIXED_C3	Gas Chromatograph
1 0_00.00_1.00_4.1 IXEB_00	Configuration
PG_GC.GC_1.GC_4.FIXED_IC4	Gas Chromatograph
1 0_00.00_1.00_4.1 IXLB_104	Configuration
PG_GC.GC_1.GC_4.FIXED_NC4	Gas Chromatograph
1 0_00.0000	Configuration
PG_GC.GC_1.GC_4.FIXED_IC5	Gas Chromatograph
·	Configuration
PG_GC.GC_1.GC_4.FIXED_NC5	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.FIXED_NC6	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.FIXED_NC7	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.FIXED_NC8	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.FIXED_NC9	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.FIXED_NC10	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.FIXED_H2O	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.FIXED_H2S	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.FIXED_H2	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.FIXED_CO	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.FIXED_O2	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.FIXED_HE	Gas Chromatograph
DO 00 00 4 00 4 50/5D 4 D	Configuration
PG_GC.GC_1.GC_4.FIXED_AR	Gas Chromatograph
DO 00 00 4 00 4 FIVED 00DILIO	Configuration
PG_GC.GC_1.GC_4.FIXED_C6PLUS	Gas Chromatograph
DC CC CC 1 CC 1 FIXED CODILIE	Configuration
PG_GC.GC_1.GC_4.FIXED_C9PLUS	Gas Chromatograph Configuration
PG_GC.GC_1.GC_4.FIXED_BTUSAT	Gas Chromatograph
1 0_GO.GO_1.GO_4.FIXED_B1U3A1	Configuration
PG_GC.GC_1.GC_5.FIXED_BTU	Gas Chromatograph
1 S_00.00_1.00_0.1 IXLD_D10	Configuration
PG_GC.GC_1.GC_5.FIXED_SG	Gas Chromatograph
. 5_50.55_1.55_0.1 [ALD_55	Configuration
PG_GC.GC_1.GC_5.FIXED_N2	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.FIXED_CO2	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.FIXED_CH4	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.FIXED_C2	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.FIXED_C3	Gas Chromatograph
	Configuration

Signal	Description
PG_GC.GC_1.GC_5.FIXED_IC4	Gas Chromatograph
1 0_00.00_1.00_3.1 IXLD_104	Configuration
PG_GC.GC_1.GC_5.FIXED_NC4	Gas Chromatograph
1 0_00.00_1.00_0.1 IXLD_1104	Configuration
PG_GC.GC_1.GC_5.FIXED_IC5	Gas Chromatograph
1 0_00.00_1.00_0.1 1/LD_100	Configuration
PG_GC.GC_1.GC_5.FIXED_NC5	Gas Chromatograph
1 0_00.00_1.00_0.1 IXED_1100	Configuration
PG_GC.GC_1.GC_5.FIXED_NC6	Gas Chromatograph
1 0_00.00_1.00_0.1 IXLD_1100	Configuration
PG_GC.GC_1.GC_5.FIXED_NC7	Gas Chromatograph
1 0_00.00_1.00_0.1 1/125_1107	Configuration
PG_GC.GC_1.GC_5.FIXED_NC8	Gas Chromatograph
1 0_00.00_1.00_0.1 1/L25_1100	Configuration
PG_GC.GC_1.GC_5.FIXED_NC9	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.FIXED_NC10	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.FIXED_H2O	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.FIXED_H2S	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.FIXED_H2	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.FIXED_CO	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.FIXED_O2	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.FIXED_HE	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.FIXED_AR	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.FIXED_C6PLUS	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.FIXED_C9PLUS	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.FIXED_BTUSAT	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.FIXED_BTU	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.FIXED_SG	Gas Chromatograph
PO 00 00 4 00 0 5 1/5 1/2	Configuration
PG_GC.GC_1.GC_6.FIXED_N2	Gas Chromatograph
DC CC CC 4 CC CEIVED CCC	Configuration
PG_GC.GC_1.GC_6.FIXED_CO2	Gas Chromatograph
DC CC CC 4 CC C EIVED CH4	Configuration
PG_GC.GC_1.GC_6.FIXED_CH4	Gas Chromatograph
DC CC CC 1 CC 6 FIVED C2	Configuration
PG_GC.GC_1.GC_6.FIXED_C2	Gas Chromatograph
PG GC GC 1 CC 6 EIVED C3	Configuration
PG_GC.GC_1.GC_6.FIXED_C3	Gas Chromatograph Configuration
PG GC GC 1 GC 6 EIVED IC4	
PG_GC.GC_1.GC_6.FIXED_IC4	Gas Chromatograph Configuration
PG_GC.GC_1.GC_6.FIXED_NC4	Gas Chromatograph
FG_GC.GC_1.GC_0.FIXED_NC4	Configuration
	Comgulation

Signal	Description
PG_GC.GC_1.GC_6.FIXED_IC5	Gas Chromatograph
FG_GC.GC_1.GC_0.FIXED_IC3	Configuration
PG_GC.GC_1.GC_6.FIXED_NC5	Gas Chromatograph
FG_GC.GC_1.GC_0.FIXED_NC3	Configuration
PG_GC.GC_1.GC_6.FIXED_NC6	Gas Chromatograph
FG_GC.GC_1.GC_0.FIXED_NC0	Configuration
PG_GC.GC_1.GC_6.FIXED_NC7	Gas Chromatograph
FG_GC.GC_1.GC_0.FIXED_NC1	Configuration
PG_GC.GC_1.GC_6.FIXED_NC8	Gas Chromatograph
FG_GC.GC_1.GC_0.FIXED_NC0	Configuration
PG_GC.GC_1.GC_6.FIXED_NC9	Gas Chromatograph
FG_GC.GC_1.GC_0.FIXED_NC9	Configuration
PG_GC.GC_1.GC_6.FIXED_NC10	Gas Chromatograph
FG_GC.GC_1.GC_0.FIXED_NC10	Configuration
PG_GC.GC_1.GC_6.FIXED_H2O	Gas Chromatograph
FG_GC.GC_1.GC_0.FIXED_1120	Configuration
PG_GC.GC_1.GC_6.FIXED_H2S	Gas Chromatograph
FG_GO.GO_1.GO_0.FIXED_FI28	Configuration
PG_GC.GC_1.GC_6.FIXED_H2	Gas Chromatograph
FG_GC.GC_1.GC_0.FIXED_FIZ	Configuration
PG_GC.GC_1.GC_6.FIXED_CO	Gas Chromatograph
1 0_00.00_1.00_0.FIXED_00	Configuration
DC CC CC 1 CC 6 FIVED O2	Gas Chromatograph
PG_GC.GC_1.GC_6.FIXED_O2	Configuration
DC CC CC 1 CC 6 FIVED HE	
PG_GC.GC_1.GC_6.FIXED_HE	Gas Chromatograph Configuration
DC CC CC 1 CC 6 FIVED AB	
PG_GC.GC_1.GC_6.FIXED_AR	Gas Chromatograph Configuration
PG_GC.GC_1.GC_6.FIXED_C6PLUS	Gas Chromatograph
FG_GC.GC_1.GC_0.1	Configuration
PG_GC.GC_1.GC_6.FIXED_C9PLUS	Gas Chromatograph
FG_GC.GC_1.GC_0.1	Configuration
PG_GC.GC_1.GC_6.FIXED_BTUSAT	Gas Chromatograph
1 0_00.00_1.00_0.1 1/(20_0100/(1	Configuration
PG_GC.GC_1.GC_1.TIMED_AR	Gas Chromatograph
1 0_00.00_1.00_1.11WEB_/410	Configuration
PG_GC.GC_1.GC_1.TIMED_BTU	Gas Chromatograph
1 0_00.00_1.00_1.1111125_510	Configuration
PG_GC.GC_1.GC_1.TIMED_BTUSAT	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.TIMED_C2	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.TIMED_C3	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.TIMED_C6PLUS	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.TIMED_C9PLUS	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.TIMED_CH4	Gas Chromatograph
= ======	Configuration
PG_GC.GC_1.GC_1.TIMED_CO	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.TIMED_CO2	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.TIMED_H2	Gas Chromatograph
	Configuration

Signal	Description
PG_GC.GC_1.GC_1.TIMED_H2O	Gas Chromatograph
1 0_00.00_1.00_1.11WIEB_1120	Configuration
PG_GC.GC_1.GC_1.TIMED_H2S	Gas Chromatograph
1 0_00.00_1.00_1.11WEB_1120	Configuration
PG_GC.GC_1.GC_1.TIMED_HE	Gas Chromatograph
1 0_00.00_1.00_1.11WIED_11E	Configuration
PG_GC.GC_1.GC_1.TIMED_IC4	Gas Chromatograph
1 0_00.00_1.00_1.11WEB_104	Configuration
PG_GC.GC_1.GC_1.TIMED_IC5	Gas Chromatograph
1 0_00.00_1.00_1.1111122_100	Configuration
PG_GC.GC_1.GC_1.TIMED_N2	Gas Chromatograph
1 0_00.00_1.00_1.11M2B_112	Configuration
PG_GC.GC_1.GC_1.TIMED_NC10	Gas Chromatograph
1 0_00.00_1.00_1.11MLEB_11010	Configuration
PG_GC.GC_1.GC_1.TIMED_NC4	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.TIMED_NC5	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.TIMED_NC6	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.TIMED_NC7	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.TIMED_NC8	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.TIMED_NC9	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.TIMED_NEOC5	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.TIMED_O2	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.TIMED_SG	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.TIMED_AR	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.TIMED_BTU	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.TIMED_BTUSAT	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.TIMED_C2	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.TIMED_C3	Gas Chromatograph
D2 00 00 400 0 THE TOTAL	Configuration
PG_GC.GC_1.GC_2.TIMED_C6PLUS	Gas Chromatograph
PO 00 00 4 00 0 THEFT 00 THE	Configuration
PG_GC.GC_1.GC_2.TIMED_C9PLUS	Gas Chromatograph
PO 00 00 4 00 0 THER OUT	Configuration
PG_GC.GC_1.GC_2.TIMED_CH4	Gas Chromatograph
PO 00 00 4 00 0 THEFT 00	Configuration
PG_GC.GC_1.GC_2.TIMED_CO	Gas Chromatograph
DC CC CC 4 CC 2 TIMED CC2	Configuration
PG_GC.GC_1.GC_2.TIMED_CO2	Gas Chromatograph
DC CC CC 1 CC 2 TIMED 112	Configuration
PG_GC.GC_1.GC_2.TIMED_H2	Gas Chromatograph
DC CC CC 1 CC 2 TIMED 1120	Configuration
PG_GC.GC_1.GC_2.TIMED_H2O	Gas Chromatograph
	Configuration

Signal	Description
PG_GC.GC_1.GC_2.TIMED_H2S	Gas Chromatograph
1 0_00.00_1.00_2.11WEB_1120	Configuration
PG_GC.GC_1.GC_2.TIMED_HE	Gas Chromatograph
1 0_00.00_1.00_2:11WEB_11E	Configuration
PG_GC.GC_1.GC_2.TIMED_IC4	Gas Chromatograph
1 0_00.00_1.00_2.11WIED_104	Configuration
PG_GC.GC_1.GC_2.TIMED_IC5	Gas Chromatograph
1 0_00.00_1.00_2.11WIED_100	Configuration
PG_GC.GC_1.GC_2.TIMED_N2	Gas Chromatograph
1 0_00.00_1.00_2.11M2B_112	Configuration
PG_GC.GC_1.GC_2.TIMED_NC10	Gas Chromatograph
1 0_00.00_1.00_2.125_1.010	Configuration
PG_GC.GC_1.GC_2.TIMED_NC4	Gas Chromatograph
1 0_00.00_1.00_2.11M2B_1101	Configuration
PG_GC.GC_1.GC_2.TIMED_NC5	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.TIMED_NC6	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.TIMED_NC7	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.TIMED_NC8	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.TIMED_NC9	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.TIMED_NEOC5	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.TIMED_O2	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.TIMED_SG	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.TIMED_AR	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.TIMED_BTU	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.TIMED_BTUSAT	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.TIMED_C2	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.TIMED_C3	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.TIMED_C6PLUS	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.TIMED_C9PLUS	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.TIMED_CH4	Gas Chromatograph
DO 00 00 4 00 0 THE T	Configuration
PG_GC.GC_1.GC_3.TIMED_CO	Gas Chromatograph
DO 00 00 4 00 0 THIS 000	Configuration
PG_GC.GC_1.GC_3.TIMED_CO2	Gas Chromatograph
DO 00 00 4 00 0 THEFT US	Configuration
PG_GC.GC_1.GC_3.TIMED_H2	Gas Chromatograph
DO 00 00 4 00 0 TIMED 1100	Configuration
PG_GC.GC_1.GC_3.TIMED_H2O	Gas Chromatograph
DO 00 00 4 00 0 TIMED 1100	Configuration
PG_GC.GC_1.GC_3.TIMED_H2S	Gas Chromatograph
	Configuration

Signal	Description
PG_GC.GC_1.GC_3.TIMED_HE	Gas Chromatograph
1 0_00.00_1.00_3.11WED_11E	Configuration
PG_GC.GC_1.GC_3.TIMED_IC4	Gas Chromatograph
1 0_00.00_1.00_0.11WLB_104	Configuration
PG_GC.GC_1.GC_3.TIMED_IC5	Gas Chromatograph
1 0_00.00_1.00_0.11WED_100	Configuration
PG_GC.GC_1.GC_3.TIMED_N2	Gas Chromatograph
1 0_00.00_1.00_0.11WLB_1\(\begin{align*} 2	Configuration
PG_GC.GC_1.GC_3.TIMED_NC10	Gas Chromatograph
1 0_00.00_1.00_0.11WEB_11010	Configuration
PG_GC.GC_1.GC_3.TIMED_NC4	Gas Chromatograph
1 0_00.00_1.00_0.11M2B_1101	Configuration
PG_GC.GC_1.GC_3.TIMED_NC5	Gas Chromatograph
1 0_00.00_1.00_0.11M2B_1100	Configuration
PG_GC.GC_1.GC_3.TIMED_NC6	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.TIMED_NC7	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.TIMED_NC8	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.TIMED_NC9	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.TIMED_NEOC5	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.TIMED_O2	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.TIMED_SG	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.TIMED_AR	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.TIMED_BTU	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.TIMED_BTUSAT	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.TIMED_C2	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.TIMED_C3	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.TIMED_C6PLUS	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.TIMED_C9PLUS	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.TIMED_CH4	Gas Chromatograph
PO 00 00 4 00 4 THEFT 00	Configuration
PG_GC.GC_1.GC_4.TIMED_CO	Gas Chromatograph
PO 00 00 4 00 4 THEFT 000	Configuration
PG_GC.GC_1.GC_4.TIMED_CO2	Gas Chromatograph
PO 00 00 4 00 4 THEFT HE	Configuration
PG_GC.GC_1.GC_4.TIMED_H2	Gas Chromatograph
DC CC CC 4 CC 4 TIMED 1100	Configuration
PG_GC.GC_1.GC_4.TIMED_H2O	Gas Chromatograph
DC CC CC 1 CC 4 TIMED 1100	Configuration
PG_GC.GC_1.GC_4.TIMED_H2S	Gas Chromatograph
DC CC CC 1 CC 4 TIMED HE	Configuration
PG_GC.GC_1.GC_4.TIMED_HE	Gas Chromatograph
	Configuration

Signal	Description
PG_GC.GC_1.GC_4.TIMED_IC4	Gas Chromatograph
FG_GC.GC_1.GC_4.11WLD_1C4	Configuration
PG_GC.GC_1.GC_4.TIMED_IC5	Gas Chromatograph
1 0_00.00_1.00_4.11WLD_103	Configuration
PG_GC.GC_1.GC_4.TIMED_N2	Gas Chromatograph
1 0_00.00_1.00_4.11WEB_1\(\frac{1}{2}\)	Configuration
PG_GC.GC_1.GC_4.TIMED_NC10	Gas Chromatograph
1 0_00.00_1.00_4.11WEB_11010	Configuration
PG_GC.GC_1.GC_4.TIMED_NC4	Gas Chromatograph
1 0_00.00_1.00_1.11MLB_1101	Configuration
PG_GC.GC_1.GC_4.TIMED_NC5	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.TIMED_NC6	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.TIMED_NC7	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.TIMED_NC8	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.TIMED_NC9	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.TIMED_NEOC5	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.TIMED_O2	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.TIMED_SG	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.TIMED_AR	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.TIMED_BTU	Gas Chromatograph
DO CO CO 4 CO 5 TIMED DILICAT	Configuration
PG_GC.GC_1.GC_5.TIMED_BTUSAT	Gas Chromatograph
PG_GC.GC_1.GC_5.TIMED_C2	Configuration
FG_GC.GC_1.GC_5.1IMED_C2	Gas Chromatograph Configuration
PG_GC.GC_1.GC_5.TIMED_C3	Gas Chromatograph
FG_GC.GC_1.GC_3.11WLD_C3	Configuration
PG GC.GC 1.GC 5.TIMED C6PLUS	Gas Chromatograph
1 0_00.00_1.00_0.11Mizb_001 200	Configuration
PG_GC.GC_1.GC_5.TIMED_C9PLUS	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.TIMED_CH4	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.TIMED_CO	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.TIMED_CO2	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.TIMED_H2	Gas Chromatograph
_	Configuration
PG_GC.GC_1.GC_5.TIMED_H2O	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.TIMED_H2S	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.TIMED_HE	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.TIMED_IC4	Gas Chromatograph
	Configuration

Signal	Description
PG_GC.GC_1.GC_5.TIMED_IC5	Gas Chromatograph
1 0_00.00_1.00_0.1.WIEB_100	Configuration
PG_GC.GC_1.GC_5.TIMED_N2	Gas Chromatograph
1 0_00.00_1.00_0.125_112	Configuration
PG_GC.GC_1.GC_5.TIMED_NC10	Gas Chromatograph
1 0_00.00_1.00_0.11M2B_11010	Configuration
PG_GC.GC_1.GC_5.TIMED_NC4	Gas Chromatograph
1 0_00.00_1.00_0.11W12B_1\01	Configuration
PG_GC.GC_1.GC_5.TIMED_NC5	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.TIMED_NC6	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.TIMED_NC7	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.TIMED_NC8	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.TIMED_NC9	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.TIMED_NEOC5	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.TIMED_O2	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.TIMED_SG	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.TIMED_AR	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.TIMED_BTU	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.TIMED_BTUSAT	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.TIMED_C2	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.TIMED_C3	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.TIMED_C6PLUS	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.TIMED_C9PLUS	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.TIMED_CH4	Gas Chromatograph
DO 00 00 1 00 0 THER 00	Configuration
PG_GC.GC_1.GC_6.TIMED_CO	Gas Chromatograph
DC CC CC 4 CC CTIMED CCC	Configuration
PG_GC.GC_1.GC_6.TIMED_CO2	Gas Chromatograph
DC CC CC 4 CC C TIMED 110	Configuration
PG_GC.GC_1.GC_6.TIMED_H2	Gas Chromatograph
DC CC CC 1 CC 6 TIMED 1100	Configuration
PG_GC.GC_1.GC_6.TIMED_H2O	Gas Chromatograph
DC CC CC 1 CC 6 TIMED H29	Configuration
PG_GC.GC_1.GC_6.TIMED_H2S	Gas Chromatograph Configuration
PG_GC.GC_1.GC_6.TIMED_HE	Gas Chromatograph
1 0_90.90_1.90_0.11WED_NE	Configuration
PG_GC.GC_1.GC_6.TIMED_IC4	Gas Chromatograph
1 0_90.90_1.90_0.11WED_104	Configuration
PG_GC.GC_1.GC_6.TIMED_IC5	Gas Chromatograph
1 0_GC.GC_1.GC_0.11WED_IC3	Configuration
	Corniguration

Signal	Description
PG_GC.GC_1.GC_6.TIMED_N2	Gas Chromatograph
FG_GC.GC_1.GC_0.TIMED_N2	Configuration
PG_GC.GC_1.GC_6.TIMED_NC10	Gas Chromatograph
FG_GC.GC_1.GC_0.11MED_NC10	Configuration
PG_GC.GC_1.GC_6.TIMED_NC4	Gas Chromatograph
FG_GC.GC_1.GC_0.11MLD_NC4	Configuration
PG_GC.GC_1.GC_6.TIMED_NC5	Gas Chromatograph
1 0_00.00_1.00_0.11WLD_1\03	Configuration
PG_GC.GC_1.GC_6.TIMED_NC6	Gas Chromatograph
1 0_00.00_1.00_0.11WEB_1400	Configuration
PG_GC.GC_1.GC_6.TIMED_NC7	Gas Chromatograph
1 0_00.0000_0	Configuration
PG_GC.GC_1.GC_6.TIMED_NC8	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.TIMED_NC9	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.TIMED_NEOC5	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.TIMED_O2	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.TIMED_SG	Gas Chromatograph
	Configuration
PG_GC.GC_1.USER1CODE_AR	Gas Chromatograph
	Configuration
PG_GC.GC_1.USER1CODE_C2	Gas Chromatograph
	Configuration
PG_GC.GC_1.USER1CODE_C3	Gas Chromatograph
DO 00 00 1110FD100DF 00D1110	Configuration
PG_GC.GC_1.USER1CODE_C6PLUS	Gas Chromatograph
DO 00 00 4 H0FD400DE 00DHH0	Configuration
PG_GC.GC_1.USER1CODE_C9PLUS	Gas Chromatograph Configuration
PG_GC.GC_1.USER1CODE_CH4	Gas Chromatograph
FG_GC.GC_1.03EK1CODE_C114	Configuration
PG_GC.GC_1.USER1CODE_CO	Gas Chromatograph
FG_GC.GC_1.03ER1CODE_CO	Configuration
PG_GC.GC_1.USER1CODE_CO2	Gas Chromatograph
. 5_55.55_1.55E1(1555E_552	Configuration
PG_GC.GC_1.USER1CODE_H2	Gas Chromatograph
	Configuration
PG_GC.GC_1.USER1CODE_H2O	Gas Chromatograph
	Configuration
PG_GC.GC_1.USER1CODE_H2S	Gas Chromatograph
	Configuration
PG_GC.GC_1.USER1CODE_HE	Gas Chromatograph
	Configuration
PG_GC.GC_1.USER1CODE_IC4	Gas Chromatograph
	Configuration
PG_GC.GC_1.USER1CODE_IC5	Gas Chromatograph
	Configuration
PG_GC.GC_1.USER1CODE_N2	Gas Chromatograph
	Configuration
PG_GC.GC_1.USER1CODE_NC10	Gas Chromatograph
PO 00 00 4 1/05 1/00 1 1/0	Configuration
PG_GC.GC_1.USER1CODE_NC4	Gas Chromatograph
	Configuration

Signal	Description
PG_GC.GC_1.USER1CODE_NC5	Gas Chromatograph
1 0_00:00_1:00EK100BE_N00	Configuration
PG_GC.GC_1.USER1CODE_NC6	Gas Chromatograph
1 0_00:00_1:00E(\(\)100BE_\(\)100	Configuration
PG_GC.GC_1.USER1CODE_NC7	Gas Chromatograph
1 0_00:00_1:00EK100BE_N07	Configuration
PG_GC.GC_1.USER1CODE_NC8	Gas Chromatograph
1 0_00:00_1:00EK100BE_N00	Configuration
PG_GC.GC_1.USER1CODE_NC9	Gas Chromatograph
1 0_00.00_1.0021(100B2_1000	Configuration
PG_GC.GC_1.USER1CODE_NEOC5	Gas Chromatograph
1 0_00:00_1.0021(10022_1(2000	Configuration
PG_GC.GC_1.USER1CODE_O2	Gas Chromatograph
1 0_00.00_1.0021(10022_02	Configuration
PG_GC.GC_1.GC_1.TOTAL_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.TOTAL_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.S1_BTU_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.S1_BTU_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.S1_SG_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.S1_SG_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.S1_N2_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.S1_N2_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.S1_CO2_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.S1_CO2_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.S1_CH4_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.S1_CH4_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.S1_C2_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.S1_C2_MAX	Gas Chromatograph
PO 00 00 4 00 4 04 00 100	Configuration
PG_GC.GC_1.GC_1.S1_C3_MIN	Gas Chromatograph
DC CC CC 4 CC 4 C4 C2 MAY	Configuration
PG_GC.GC_1.GC_1.S1_C3_MAX	Gas Chromatograph
DC CC CC 4 CC 4 C4 1C4 BAIRI	Configuration
PG_GC.GC_1.GC_1.S1_IC4_MIN	Gas Chromatograph
DC CC CC 1 CC 1 C1 IC1 MAY	Configuration
PG_GC.GC_1.GC_1.S1_IC4_MAX	Gas Chromatograph
PG GC GC 1 GC 1 S1 NG4 MINI	Configuration Cas Chromatograph
PG_GC.GC_1.GC_1.S1_NC4_MIN	Gas Chromatograph Configuration
PG_GC.GC_1.GC_1.S1_NC4_MAX	
F G_GC.GC_1.GC_1.31_NC4_NAX	Gas Chromatograph Configuration
PG_GC.GC_1.GC_1.S1_NEOC5_MIN	Gas Chromatograph
0_00.00_1.00_1.01_NEOC0_WIIN	Configuration
	Comgulation

Signal	Description
PG_GC.GC_1.GC_1.S1_NEOC5_MAX	Gas Chromatograph
1 0_00.00_1.00_1.01_112000_111111	Configuration
PG_GC.GC_1.GC_1.S1_IC5_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.S1_IC5_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.S1_NC5_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.S1_NC5_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.S1_NC6_MIN	Gas Chromatograph
DO 00 00 4 00 4 04 NO0 MAY	Configuration
PG_GC.GC_1.GC_1.S1_NC6_MAX	Gas Chromatograph Configuration
PG_GC.GC_1.GC_1.S1_NC7_MIN	Gas Chromatograph
FG_GC.GC_1.GC_1.31_NC/_WIIN	Configuration
PG_GC.GC_1.GC_1.S1_NC7_MAX	Gas Chromatograph
. 5_55.55_1.55_1.51_1107_11177	Configuration
PG_GC.GC_1.GC_1.S1_NC8_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.S1_NC8_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.S1_NC9_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.S1_NC9_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.S1_NC10_MIN	Gas Chromatograph
DC CC CC 1 CC 1 S1 NC10 MAY	Configuration
PG_GC.GC_1.GC_1.S1_NC10_MAX	Gas Chromatograph Configuration
PG_GC.GC_1.GC_1.S1_H2O_MIN	Gas Chromatograph
1 0_00.00_1.00_1.01_1120_W V	Configuration
PG_GC.GC_1.GC_1.S1_H2O_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.S1_H2S_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.S1_H2S_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.S1_H2_MIN	Gas Chromatograph
DC CC CC 1 CC 1 S1 H2 MAY	Configuration
PG_GC.GC_1.GC_1.S1_H2_MAX	Gas Chromatograph Configuration
PG_GC.GC_1.GC_1.S1_CO_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.S1_CO_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.S1_O2_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.S1_O2_MAX	Gas Chromatograph
DO 00 00 4 00 4 04 11= 1::::	Configuration
PG_GC.GC_1.GC_1.S1_HE_MIN	Gas Chromatograph
DC CC CC 4 CC 4 C4 UE MAY	Configuration
PG_GC.GC_1.GC_1.S1_HE_MAX	Gas Chromatograph Configuration
PG_GC.GC_1.GC_1.S1_AR_MIN	Gas Chromatograph
1 0_00.00_1.90_1.01_AR_MIN	Configuration
	Comigaration

Signal	Description
PG_GC.GC_1.GC_1.S1_AR_MAX	Gas Chromatograph
1 0_00.00_1.00_1.01_AI_WAX	Configuration
PG_GC.GC_1.GC_1.S1_C6plus_MIN	Gas Chromatograph
1 0_00.00_1.01_00pld0_WiiV	Configuration
PG_GC.GC_1.GC_1.S1_C6plus_MAX	Gas Chromatograph
1 0_00.00_1.00_1.01_00pids_ivi/vt	Configuration
PG_GC.GC_1.GC_1.S1_BTUSat_MIN	Gas Chromatograph
1 0_00.00_1.00_1.01_B100at_WiiiV	Configuration
PG_GC.GC_1.GC_1.S1_BTUSat_MAX	Gas Chromatograph
1 0_00.00_1.00_1.01_b100dit_ivii/00	Configuration
PG_GC.GC_1.GC_1.S1_Wobbe_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.S1_Wobbe_MAX	Gas Chromatograph
1 0_00.00_1.00_1.01_1/00000_1/1/01	Configuration
PG_GC.GC_1.GC_1.S1_C9plus_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.S1_C9plus_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.S1_CHDP_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.S1_CHDP_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.S1_Compressability_	Gas Chromatograph
MIN	Configuration
PG_GC.GC_1.GC_1.S1_Compressability_	Gas Chromatograph
MAX	Configuration
PG_GC.GC_1.GC_1.S1_TotalUnNmMoleP	Gas Chromatograph
MIN	Configuration
PG_GC.GC_1.GC_1.S1_TotalUnNmMoleP	Gas Chromatograph
_MAX	Configuration
PG_GC.GC_1.GC_1.S1_TotalGPM_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.S1_TotalGPM_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.TOTAL_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.TOTAL_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.S1_BTU_MIN	Gas Chromatograph
D2 00 00 4 60 00 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Configuration
PG_GC.GC_1.GC_2.S1_BTU_MAX	Gas Chromatograph
PO 00 00 4 00 004 00 100	Configuration
PG_GC.GC_1.GC_2.S1_SG_MIN	Gas Chromatograph
DC CC CC 4 CC C C4 CC MAY	Configuration
PG_GC.GC_1.GC_2.S1_SG_MAX	Gas Chromatograph
DC CC CC 4 CC 2 C4 NO MIN	Configuration
PG_GC.GC_1.GC_2.S1_N2_MIN	Gas Chromatograph
DC CC CC 1 CC 2 C1 N2 MAY	Configuration
PG_GC.GC_1.GC_2.S1_N2_MAX	Gas Chromatograph Configuration
PG_GC.GC_1.GC_2.S1_CO2_MIN	Gas Chromatograph
1 0_00.00_1.00_2.01_002_WIIN	Configuration
PG_GC.GC_1.GC_2.S1_CO2_MAX	Gas Chromatograph
1 0_90.90_1.90_2.31_002_IVIAA	Configuration
PG_GC.GC_1.GC_2.S1_CH4_MIN	Gas Chromatograph
1 0_90.90_1.90_2.91_0П4_IVIIIV	Configuration
	Oomiguration

Signal	Description
PG_GC.GC_1.GC_2.S1_CH4_MAX	Gas Chromatograph
FG_GC.GC_1.GC_2.31_C114_WAX	Configuration
PG_GC.GC_1.GC_2.S1_C2_MIN	Gas Chromatograph
FG_GC.GC_1.GC_2.31_C2_WIIN	Configuration
PG_GC.GC_1.GC_2.S1_C2_MAX	Gas Chromatograph
FG_GC.GC_1.GC_2.31_C2_WAX	Configuration
PG_GC.GC_1.GC_2.S1_C3_MIN	Gas Chromatograph
FG_GC.GC_1.GC_2.31_C3_WIIN	Configuration
PG_GC.GC_1.GC_2.S1_C3_MAX	Gas Chromatograph
1 0_00.00_1.00_2.01_03_WAX	Configuration
PG_GC.GC_1.GC_2.S1_IC4_MIN	Gas Chromatograph
1 0_00.00_1.00_2.01_104_IVIIIV	Configuration
PG_GC.GC_1.GC_2.S1_IC4_MAX	Gas Chromatograph
1 0_00.00_1.00_2.01_104_M/AX	Configuration
PG_GC.GC_1.GC_2.S1_NC4_MIN	Gas Chromatograph
1 0_00.00_1.00_2.01_1\0+_\min\	Configuration
PG_GC.GC_1.GC_2.S1_NC4_MAX	Gas Chromatograph
. 5_55.55_1.55_2.51_1104_111741	Configuration
PG_GC.GC_1.GC_2.S1_NEOC5_MIN	Gas Chromatograph
- 5_55.55_1.55_2.51_14E555_Will4	Configuration
PG_GC.GC_1.GC_2.S1_NEOC5_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.S1_IC5_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.S1_IC5_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.S1_NC5_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.S1_NC5_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.S1_NC6_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.S1_NC6_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.S1_NC7_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.S1_NC7_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.S1_NC8_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.S1_NC8_MAX	Gas Chromatograph
D0 00 00 4 00 004 1155 11111	Configuration
PG_GC.GC_1.GC_2.S1_NC9_MIN	Gas Chromatograph
PO 00 00 4 00 004 N00 1111	Configuration
PG_GC.GC_1.GC_2.S1_NC9_MAX	Gas Chromatograph
DO 00 00 4 00 004 NO40 MIN	Configuration
PG_GC.GC_1.GC_2.S1_NC10_MIN	Gas Chromatograph
DO 00 00 4 00 0 04 NO40 MAY	Configuration
PG_GC.GC_1.GC_2.S1_NC10_MAX	Gas Chromatograph
DC CC CC 1 CC 2 C1 LI20 MIN	Configuration
PG_GC.GC_1.GC_2.S1_H2O_MIN	Gas Chromatograph
DC CC CC 1 CC 2 S1 H2O MAY	Configuration
PG_GC.GC_1.GC_2.S1_H2O_MAX	Gas Chromatograph
PG_GC.GC_1.GC_2.S1_H2S_MIN	Configuration
FG_GC.GC_1.GC_2.31_H23_WIIN	Gas Chromatograph Configuration
	Comiguration

Signal	Description
PG_GC.GC_1.GC_2.S1_H2S_MAX	Gas Chromatograph
FG_GC.GC_1.GC_2.31_H23_WAX	Configuration
PG_GC.GC_1.GC_2.S1_H2_MIN	Gas Chromatograph
1 0_00.00_1.00_2.01_112_WIIN	Configuration
PG_GC.GC_1.GC_2.S1_H2_MAX	Gas Chromatograph
1 0_00.00_1.00_2.01_112_WIAX	Configuration
PG_GC.GC_1.GC_2.S1_CO_MIN	Gas Chromatograph
0_00.00_1.00_2.01_00_WIII\	Configuration
PG_GC.GC_1.GC_2.S1_CO_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.S1_O2_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.S1_O2_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.S1_HE_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.S1_HE_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.S1_AR_MIN	Gas Chromatograph
DC CC CC 4 CC C C4 AD MAY	Configuration
PG_GC.GC_1.GC_2.S1_AR_MAX	Gas Chromatograph
DC CC CC 1 CC 2 S1 C6plus MIN	Configuration
PG_GC.GC_1.GC_2.S1_C6plus_MIN	Gas Chromatograph Configuration
PG_GC.GC_1.GC_2.S1_C6plus_MAX	Gas Chromatograph
FG_GC.GC_1.GC_2.31_Copius_iviAX	Configuration
PG_GC.GC_1.GC_2.S1_BTUSat_MIN	Gas Chromatograph
1 0_00.00_1.00_2.01_B100dit_iviii1	Configuration
PG_GC.GC_1.GC_2.S1_BTUSat_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.S1_Wobbe_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.S1_Wobbe_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.S1_C9plus_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.S1_C9plus_MAX	Gas Chromatograph
PO 00 00 4 00 004 0UPP 1491	Configuration
PG_GC.GC_1.GC_2.S1_CHDP_MIN	Gas Chromatograph
DC CC CC 1 CC 2 C1 CUDD MAY	Configuration
PG_GC.GC_1.GC_2.S1_CHDP_MAX	Gas Chromatograph Configuration
PG GC.GC 1.GC 2.S1 Compressability	Gas Chromatograph
FG_GC.GC_1.GC_2.S1_Compressability_ MIN	Configuration
PG GC.GC 1.GC 2.S1 Compressability	Gas Chromatograph
MAX	Configuration
PG_GC.GC_1.GC_2.S1_TotalUnNmMoleP	Gas Chromatograph
_MIN	Configuration
PG_GC.GC_1.GC_2.S1_TotalUnNmMoleP	Gas Chromatograph
_MĀX	Configuration
PG_GC.GC_1.GC_2.S1_TotalGPM_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.S1_TotalGPM_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.TOTAL_MIN	Gas Chromatograph
	Configuration

Signal	Description
PG_GC.GC_1.GC_3.TOTAL_MAX	Gas Chromatograph
FG_GC.GC_1.GC_3.TOTAL_WAX	Configuration
PG_GC.GC_1.GC_3.S1_BTU_MIN	Gas Chromatograph
FG_GC.GC_1.GC_3.31_BTO_WIIN	Configuration
PG_GC.GC_1.GC_3.S1_BTU_MAX	Gas Chromatograph
FG_GC.GC_1.GC_3.31_BTO_MAX	Configuration
PG_GC.GC_1.GC_3.S1_SG_MIN	Gas Chromatograph
FG_GC.GC_1.GC_3.31_3G_MIN	Configuration
PG_GC.GC_1.GC_3.S1_SG_MAX	Gas Chromatograph
1 0_00.00_1.00_3.01_00_MAX	Configuration
PG_GC.GC_1.GC_3.S1_N2_MIN	Gas Chromatograph
1 0_00.00_1.00_0.01_1\z_\viii\	Configuration
PG_GC.GC_1.GC_3.S1_N2_MAX	Gas Chromatograph
1 0_00.00_1.00_0.01_1\z_\wi\ru\	Configuration
PG_GC.GC_1.GC_3.S1_CO2_MIN	Gas Chromatograph
1 0_00.00_1.00_0.01_002_1/11/1	Configuration
PG_GC.GC_1.GC_3.S1_CO2_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.S1_CH4_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.S1_CH4_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.S1_C2_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.S1_C2_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.S1_C3_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.S1_C3_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.S1_IC4_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.S1_IC4_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.S1_NC4_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.S1_NC4_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.S1_NEOC5_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.S1_NEOC5_MAX	Gas Chromatograph
D0 00 00 4 00 00 4 10 00 10 10 10 10 10 10 10 10 10 10 10	Configuration
PG_GC.GC_1.GC_3.S1_IC5_MIN	Gas Chromatograph
PO 00 00 4 00 004 105 1111	Configuration
PG_GC.GC_1.GC_3.S1_IC5_MAX	Gas Chromatograph
DO 00 00 4 00 0 04 NOT NOT	Configuration
PG_GC.GC_1.GC_3.S1_NC5_MIN	Gas Chromatograph
DO 00 00 4 00 0 04 NOT MAY	Configuration
PG_GC.GC_1.GC_3.S1_NC5_MAX	Gas Chromatograph
DC CC CC 4 CC 2 C4 NCC MINI	Configuration
PG_GC.GC_1.GC_3.S1_NC6_MIN	Gas Chromatograph
DC CC CC 1 CC 2 S1 NCS MAY	Configuration
PG_GC.GC_1.GC_3.S1_NC6_MAX	Gas Chromatograph
PG_GC.GC_1.GC_3.S1_NC7_MIN	Configuration Gas Chromatograph
FG_GC.GC_1.GC_3.31_NC/_WIIN 	Configuration
	Comiguration

Signal	Description
PG_GC.GC_1.GC_3.S1_NC7_MAX	Gas Chromatograph
1 0_00.00_1.00_0.01_NO7_MAX	Configuration
PG_GC.GC_1.GC_3.S1_NC8_MIN	Gas Chromatograph
1 0_00.00_1.00_0.01_1100_1/mit	Configuration
PG_GC.GC_1.GC_3.S1_NC8_MAX	Gas Chromatograph
1 0_00.00_1.00_0.01_N00_M/V	Configuration
PG_GC.GC_1.GC_3.S1_NC9_MIN	Gas Chromatograph
1 0_00.00_1.00_0.01_N00_NIIIV	Configuration
PG_GC.GC_1.GC_3.S1_NC9_MAX	Gas Chromatograph
1 0_00.00_1.00_0.01_1100_1111111	Configuration
PG_GC.GC_1.GC_3.S1_NC10_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.S1_NC10_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.S1_H2O_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.S1_H2O_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.S1_H2S_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.S1_H2S_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.S1_H2_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.S1_H2_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.S1_CO_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.S1_CO_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.S1_O2_MIN	Gas Chromatograph
DO 00 00 4 00 004 00 MAY	Configuration
PG_GC.GC_1.GC_3.S1_O2_MAX	Gas Chromatograph
DC CC CC 4 CC 2 C4 LIE MIN	Configuration
PG_GC.GC_1.GC_3.S1_HE_MIN	Gas Chromatograph
DC CC CC 1 CC 2 S1 HE MAY	Configuration Gas Chromatograph
PG_GC.GC_1.GC_3.S1_HE_MAX	Configuration
PG_GC.GC_1.GC_3.S1_AR_MIN	Gas Chromatograph
1 0_00.60_1.60_0.61_AR_MIN	Configuration
PG_GC.GC_1.GC_3.S1_AR_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.S1_C6plus_MIN	Gas Chromatograph
. 5_55.55_1.55_5.51_56pid5_Will4	Configuration
PG_GC.GC_1.GC_3.S1_C6plus_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.S1_BTUSat_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.S1_BTUSat_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.S1_Wobbe_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.S1_Wobbe_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.S1_C9plus_MIN	Gas Chromatograph
	Configuration

Signal	Description
_	•
PG_GC.GC_1.GC_3.S1_C9plus_MAX	Gas Chromatograph Configuration
PG_GC.GC_1.GC_3.S1_CHDP_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.S1_CHDP_MAX	Gas Chromatograph
1 0_00.00_1.00_0.01_01121	Configuration
PG_GC.GC_1.GC_3.S1_Compressability_	Gas Chromatograph
MIN	Configuration
PG_GC.GC_1.GC_3.S1_Compressability_	Gas Chromatograph
MAX	Configuration
PG_GC.GC_1.GC_3.S1_TotalUnNmMoleP	Gas Chromatograph
MIN	Configuration
PG_GC.GC_1.GC_3.S1_TotalUnNmMoleP	Gas Chromatograph
MAX	Configuration
PG_GC.GC_1.GC_3.S1_TotalGPM_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.S1_TotalGPM_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.TOTAL_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.TOTAL_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.S1_BTU_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.S1_BTU_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.S1_SG_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.S1_SG_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.S1_N2_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.S1_N2_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.S1_CO2_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.S1_CO2_MAX	Gas Chromatograph
DO 00 00 4 00 4 04 044 1411	Configuration
PG_GC.GC_1.GC_4.S1_CH4_MIN	Gas Chromatograph
DC CC CC 4 CC 4 C4 CU4 MAY	Configuration
PG_GC.GC_1.GC_4.S1_CH4_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.S1_C2_MIN	Gas Chromatograph
PG_GC.GC_1.GC_4.S1_C2_MAX	Configuration Cas Chromatograph
F.G_GC.GC_1.GC_4.31_CZ_WAX 	Gas Chromatograph Configuration
PG_GC.GC_1.GC_4.S1_C3_MIN	Gas Chromatograph
F.G_GC.GC_1.GC_4.31_C3_WIIN 	Configuration
PG_GC.GC_1.GC_4.S1_C3_MAX	Gas Chromatograph
1 0_00.60_1.60_4.61_05_WAX	Configuration
PG_GC.GC_1.GC_4.S1_IC4_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.S1_IC4_MAX	Gas Chromatograph
1	Configuration
PG_GC.GC_1.GC_4.S1_NC4_MIN	Gas Chromatograph
1	Configuration
	Johngaradon

Signal	Description
PG_GC.GC_1.GC_4.S1_NC4_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.S1_NEOC5_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.S1_NEOC5_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.S1_IC5_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.S1_IC5_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.S1_NC5_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.S1_NC5_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.S1_NC6_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.S1_NC6_MAX	Gas Chromatograph
PO 00 00 4 00 4 04 NOT 1991	Configuration
PG_GC.GC_1.GC_4.S1_NC7_MIN	Gas Chromatograph
PG_GC.GC_1.GC_4.S1_NC7_MAX	Configuration
PG_GC.GC_1.GC_4.51_NC/_MAX	Gas Chromatograph Configuration
PG_GC.GC_1.GC_4.S1_NC8_MIN	Gas Chromatograph
FG_GC.GC_1.GC_4.51_NC0_MIN	Configuration
PG_GC.GC_1.GC_4.S1_NC8_MAX	Gas Chromatograph
1 0_00.00_1.00_4.01_N00_W/AX	Configuration
PG_GC.GC_1.GC_4.S1_NC9_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.S1_NC9_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.S1_NC10_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.S1_NC10_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.S1_H2O_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.S1_H2O_MAX	Gas Chromatograph
DC CC CC 4 CC 4 C4 LIDE MIN	Configuration
PG_GC.GC_1.GC_4.S1_H2S_MIN	Gas Chromatograph Configuration
PG_GC.GC_1.GC_4.S1_H2S_MAX	Gas Chromatograph
1 0_00.00_1.00_4.01_1120_WIAX	Configuration
PG_GC.GC_1.GC_4.S1_H2_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.S1_H2_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.S1_CO_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.S1_CO_MAX	Gas Chromatograph
D2 00 00 400 400 104 00 100	Configuration
PG_GC.GC_1.GC_4.S1_O2_MIN	Gas Chromatograph
PO 00 00 4 00 4 04 00 14 14	Configuration
PG_GC.GC_1.GC_4.S1_O2_MAX	Gas Chromatograph
DC CC CC 1 CC 4 S4 LIE MIN	Configuration
PG_GC.GC_1.GC_4.S1_HE_MIN	Gas Chromatograph Configuration
	Comiguration

PG_GC.GC_1.GC_4.S1_HE_MAX PG_GC.GC_1.GC_4.S1_AR_MIN PG_GC.GC_1.GC_4.S1_AR_MIN PG_GC.GC_1.GC_4.S1_AR_MAX PG_GC.GC_1.GC_4.S1_C6plus_MIN PG_GC.GC_1.GC_4.S1_C6plus_MIN PG_GC.GC_1.GC_4.S1_C6plus_MIN PG_GC.GC_1.GC_4.S1_C6plus_MAX PG_GC.GC_1.GC_4.S1_C6plus_MAX PG_GC.GC_1.GC_4.S1_C6plus_MAX PG_GC.GC_1.GC_4.S1_BTUSat_MIN PG_GC.GC_1.GC_4.S1_BTUSat_MIN PG_GC.GC_1.GC_4.S1_BTUSat_MIN PG_GC.GC_1.GC_4.S1_BTUSat_MAX PG_GC.GC_1.GC_4.S1_BTUSat_MAX PG_GC.GC_1.GC_4.S1_Wobbe_MIN PG_GC.GC_1.GC_4.S1_Wobbe_MIN PG_GC.GC_1.GC_4.S1_Wobbe_MAX PG_GC.GC_1.GC_4.S1_Wobbe_MAX PG_GC.GC_1.GC_4.S1_C9plus_MIN PG_GC.GC_1.GC_4.S1_C9plus_MIN PG_GC.GC_1.GC_4.S1_C9plus_MAX PG_GC.GC_1.GC_4.S1_C9plus_MAX PG_GC.GC_1.GC_4.S1_C9plus_MAX PG_GC.GC_1.GC_4.S1_C1DP_MIN PG_GC.GC_1.GC_4.S1_C1DP_MIN PG_GC.GC_1.GC_4.S1_C1DP_MIN PG_GC.GC_1.GC_4.S1_C0mpressability_ MIN PG_GC.GC_1.GC_4.S1_C0mpressability_ MAX PG_GC.GC_1.GC_4.S1_Compressability_ MIN PG_GC.GC_1.GC_4.S1_TotalUnNmMoleP MAX PG_GC.GC_1.GC_4.S1_TotalUnNmMoleP MAX PG_GC.GC_1.GC_4.S1_TotalUnNmMoleP MAX PG_GC.GC_1.GC_4.S1_TotalUnNmMoleP MAX PG_GC.GC_1.GC_4.S1_TotalUnNmMoleP MAX PG_GC.GC_1.GC_4.S1_TotalUnNmMoleP MAX PG_GC.GC_1.GC_4.S1_TotalGPM_MIN PG_GC.GC_1.GC_5.S1_TotalUnNmMOleP MAX PG_GC.GC_1.GC_5.S1_TotalUnNmMOleP MAX PG_GC.GC_1.GC_5.S1_TotalUnNmMOleP MAX PG_GC.GC_1.GC_5.S1_BTU_MIN PG_GC.GC_1.GC_5.S1_BTU_MIN PG_GC.GC_1.GC_5.S1_BTU_MIN PG_GC.GC_1.GC_5.S1_BTU_MIN PG_GC.GC_1.GC_5.S1_BTU_MIN PG_GC.GC_1.GC_5.S1_BTU_MIN PG_GC.GC_1.GC_5.S1_BTU_MIN PG_GC.GC_1.GC_5.S1_SG_MIN PG_GC.GC_1.GC_5.S1_	Signal	Description
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PG_GC.GC_1.GC_5.S1_N2_MAX Gas Chromatograph	1	
	PG GC.GC 1.GC 5.S1 N2 MAX	
Outmoundion		Configuration
PG_GC.GC_1.GC_5.S1_CO2_MIN Gas Chromatograph	PG GC.GC 1.GC 5.S1 CO2 MIN	
Configuration		

Signal	Description
PG_GC.GC_1.GC_5.S1_CO2_MAX	Gas Chromatograph
1 0_00.00_1.00_0.01_002_W/W	Configuration
PG_GC.GC_1.GC_5.S1_CH4_MIN	Gas Chromatograph
1 0_00.00_1.00_0.01_0114_1/11114	Configuration
PG_GC.GC_1.GC_5.S1_CH4_MAX	Gas Chromatograph
1 0_00.00_1.00_0.01_0114_W/4X	Configuration
PG_GC.GC_1.GC_5.S1_C2_MIN	Gas Chromatograph
1 0_00.00_1.00_0.01_02_WIIV	Configuration
PG_GC.GC_1.GC_5.S1_C2_MAX	Gas Chromatograph
1 0_00.00_1.00_0.01_02	Configuration
PG_GC.GC_1.GC_5.S1_C3_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.S1_C3_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.S1_IC4_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.S1_IC4_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.S1_NC4_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.S1_NC4_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.S1_NEOC5_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.S1_NEOC5_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.S1_IC5_MIN	Gas Chromatograph
DO 00 00 1 00 5 01 105 110V	Configuration
PG_GC.GC_1.GC_5.S1_IC5_MAX	Gas Chromatograph
DO 00 00 4 00 5 04 NOT MIN	Configuration
PG_GC.GC_1.GC_5.S1_NC5_MIN	Gas Chromatograph
PG_GC.GC_1.GC_5.S1_NC5_MAX	Configuration Gas Chromatograph
FG_GC.GC_1.GC_3.31_NC3_MAX	Configuration
PG_GC.GC_1.GC_5.S1_NC6_MIN	Gas Chromatograph
1 0_00.00_1.00_3.31_1\00_\min	Configuration
PG_GC.GC_1.GC_5.S1_NC6_MAX	Gas Chromatograph
1 0_00.00_1.00_0.01_1100_111111	Configuration
PG_GC.GC_1.GC_5.S1_NC7_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.S1_NC7_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.S1_NC8_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.S1_NC8_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.S1_NC9_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.S1_NC9_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.S1_NC10_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.S1_NC10_MAX	Gas Chromatograph
D2 00 00 400 504 1155 11111	Configuration
PG_GC.GC_1.GC_5.S1_H2O_MIN	Gas Chromatograph
	Configuration

Signal	Description
DC CC CC 1 CC 5 C1 U20 MAY	-
PG_GC.GC_1.GC_5.S1_H2O_MAX	Gas Chromatograph
DC CC CC 1 CC 5 C1 H3C MIN	Configuration
PG_GC.GC_1.GC_5.S1_H2S_MIN	Gas Chromatograph Configuration
DC CC CC 1 CC 5 C1 H2C MAY	
PG_GC.GC_1.GC_5.S1_H2S_MAX	Gas Chromatograph Configuration
PG_GC.GC_1.GC_5.S1_H2_MIN	Gas Chromatograph
FG_GC.GC_1.GC_5.31_H2_WIIN	Configuration
PG_GC.GC_1.GC_5.S1_H2_MAX	Gas Chromatograph
1 0_00.00_1.00_0.01_112_WAX	Configuration
PG_GC.GC_1.GC_5.S1_CO_MIN	Gas Chromatograph
1 0_00.00_1.00_0.01_00_iviiiv	Configuration
PG_GC.GC_1.GC_5.S1_CO_MAX	Gas Chromatograph
1 0_00.00_1.00_0.01_00_1/1/1/1	Configuration
PG_GC.GC_1.GC_5.S1_O2_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.S1_O2_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.S1_HE_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.S1_HE_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.S1_AR_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.S1_AR_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.S1_C6plus_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.S1_C6plus_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.S1_BTUSat_MIN	Gas Chromatograph
DO 00 00 4 00 5 04 DTUG-+ MAY	Configuration
PG_GC.GC_1.GC_5.S1_BTUSat_MAX	Gas Chromatograph
PG_GC.GC_1.GC_5.S1_Wobbe_MIN	Configuration Gas Chromatograph
FG_GC.GC_1.GC_3.31_Wobbe_lvilly	Configuration
PG_GC.GC_1.GC_5.S1_Wobbe_MAX	Gas Chromatograph
1 0_00.00_1.00_0.01_Wobbe_IVIAX	Configuration
PG_GC.GC_1.GC_5.S1_C9plus_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.S1_C9plus_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.S1_CHDP_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.S1_CHDP_MAX	Gas Chromatograph
_	Configuration
PG_GC.GC_1.GC_5.S1_Compressability_	Gas Chromatograph
MIN	Configuration
PG_GC.GC_1.GC_5.S1_Compressability_	Gas Chromatograph
MAX	Configuration
PG_GC.GC_1.GC_5.S1_TotalUnNmMoleP	Gas Chromatograph
_MIN	Configuration
PG_GC.GC_1.GC_5.S1_TotalUnNmMoleP	Gas Chromatograph
MAX	Configuration
PG_GC.GC_1.GC_5.S1_TotalGPM_MIN	Gas Chromatograph
	Configuration

Signal	Description
PG_GC.GC_1.GC_5.S1_TotalGPM_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.TOTAL_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.TOTAL_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.S1_BTU_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.S1_BTU_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.S1_SG_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.S1_SG_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.S1_N2_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.S1_N2_MAX	Gas Chromatograph
PO 00 00 4 00 004 000 1 1111	Configuration
PG_GC.GC_1.GC_6.S1_CO2_MIN	Gas Chromatograph
DC CC CC 4 CC C C4 CCC MAY	Configuration
PG_GC.GC_1.GC_6.S1_CO2_MAX	Gas Chromatograph
DC CC CC 4 CC 6 C4 CH4 MIN	Configuration
PG_GC.GC_1.GC_6.S1_CH4_MIN	Gas Chromatograph Configuration
DC CC CC 1 CC 6 S1 CH4 MAY	Gas Chromatograph
PG_GC.GC_1.GC_6.S1_CH4_MAX	Configuration
PG_GC.GC_1.GC_6.S1_C2_MIN	Gas Chromatograph
1 0_00.00_1.00_0.01_02_lvillv	Configuration
PG_GC.GC_1.GC_6.S1_C2_MAX	Gas Chromatograph
1 0_00.00_1.00_0.01_02_1.11 11	Configuration
PG_GC.GC_1.GC_6.S1_C3_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.S1_C3_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.S1_IC4_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.S1_IC4_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.S1_NC4_MIN	Gas Chromatograph
PO 00 00 4 00 004 NO4 NO4	Configuration
PG_GC.GC_1.GC_6.S1_NC4_MAX	Gas Chromatograph
DC CC CC 1 CC 6 S4 NEOCE MIN	Configuration
PG_GC.GC_1.GC_6.S1_NEOC5_MIN	Gas Chromatograph Configuration
PG_GC.GC_1.GC_6.S1_NEOC5_MAX	Gas Chromatograph
1 0_00.60_1.60_0.51_NEO05_WAX	Configuration
PG_GC.GC_1.GC_6.S1_IC5_MIN	Gas Chromatograph
. 5_55.55_1.55_5.51_155_1/1114	Configuration
PG_GC.GC_1.GC_6.S1_IC5_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.S1_NC5_MIN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.S1_NC5_MAX	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.S1_NC6_MIN	Gas Chromatograph
	Configuration

PG_GC.GC_1.GC_6.S1_NC6_MAX PG_GC.GC_1.GC_6.S1_NC7_MIN PG_GC.GC_1.GC_6.S1_NC7_MIN PG_GC.GC_1.GC_6.S1_NC7_MAX Gas Chromatograph Configuration PG_GC.GC_1.GC_6.S1_NC8_MIN PG_GC.GC_1.GC_6.S1_NC8_MIN PG_GC.GC_1.GC_6.S1_NC8_MIN PG_GC.GC_1.GC_6.S1_NC8_MAX Gas Chromatograph Configuration PG_GC.GC_1.GC_6.S1_NC9_MIN PG_GC.GC_1.GC_6.S1_NC9_MIN PG_GC.GC_1.GC_6.S1_NC9_MIN PG_GC.GC_1.GC_6.S1_NC9_MIN PG_GC.GC_1.GC_6.S1_NC9_MAX Gas Chromatograph Configuration PG_GC.GC_1.GC_6.S1_NC10_MIN PG_GC.GC_1.GC_6.S1_NC10_MIN PG_GC.GC_1.GC_6.S1_NC10_MIN PG_GC.GC_1.GC_6.S1_NC10_MIN PG_GC.GC_1.GC_6.S1_NC10_MIN PG_GC.GC_1.GC_6.S1_NC10_MIN PG_GC.GC_1.GC_6.S1_H20_MIN PG_GC.GC_1.GC_6.S1_H20_MIN PG_GC.GC_1.GC_6.S1_H20_MIN PG_GC.GC_1.GC_6.S1_H20_MAX Gas Chromatograph Configuration PG_GC.GC_1.GC_6.S1_H2S_MIN PG_GC.GC_1.GC_6.S1_H2S_MIN PG_GC.GC_1.GC_6.S1_H2S_MIN PG_GC.GC_1.GC_6.S1_H2S_MIN PG_GC.GC_1.GC_6.S1_H2S_MIN PG_GC.GC_1.GC_6.S1_H2_MIN PG_GC.GC_1.GC_6.S1_H2_MIN PG_GC.GC_1.GC_6.S1_PC_MIN PG_GC.GC_1.GC_6.S1_PC_MAX Gas Chromatograph Configuration PG_GC.GC_1.GC_6.S1_PC_MAX Gas Chromatograph Configuration PG_GC.GC_1.GC_6.S1_PC_MIN PG_	Signal	Description
Configuration	_	
PG_GC.GC_1.GC_6.S1_NC7_MIN PG_GC.GC_1.GC_6.S1_NC7_MAX PG_GC.GC_1.GC_6.S1_NC8_MIN PG_GC.GC_1.GC_6.S1_NC8_MIN PG_GC.GC_1.GC_6.S1_NC8_MIN PG_GC.GC_1.GC_6.S1_NC8_MIN PG_GC.GC_1.GC_6.S1_NC8_MAX PG_GC.GC_1.GC_6.S1_NC9_MIN PG_GC.GC_1.GC_6.S1_NC9_MIN PG_GC.GC_1.GC_6.S1_NC9_MIN PG_GC.GC_1.GC_6.S1_NC9_MIN PG_GC.GC_1.GC_6.S1_NC9_MIN PG_GC.GC_1.GC_6.S1_NC9_MIN PG_GC.GC_1.GC_6.S1_NC10_MIN PG_GC.GC_1.GC_6.S1_NC10_MIN PG_GC.GC_1.GC_6.S1_NC10_MIN PG_GC.GC_1.GC_6.S1_NC10_MIN PG_GC.GC_1.GC_6.S1_NC10_MIN PG_GC.GC_1.GC_6.S1_NC10_MIN PG_GC.GC_1.GC_6.S1_NC10_MIN PG_GC.GC_1.GC_6.S1_H20_MIN PG_GC.GC_1.GC_6.S1_H20_MIN PG_GC.GC_1.GC_6.S1_H20_MIN PG_GC.GC_1.GC_6.S1_H20_MAX PG_GC.GC_1.GC_6.S1_H20_MAX PG_GC.GC_1.GC_6.S1_H20_MAX PG_GC.GC_1.GC_6.S1_H20_MIN PG_GC.GC_1.GC_6.S1_H20_MIN PG_GC.GC_1.GC_6.S1_H20_MIN PG_GC.GC_1.GC_6.S1_H20_MIN PG_GC.GC_1.GC_6.S1_H20_MIN PG_GC.GC_1.GC_6.S1_H20_MIN PG_GC.GC_1.GC_6.S1_H20_MIN PG_GC.GC_1.GC_6.S1_H2_MIN PG_GC.GC_1.GC_6.S1_H2_MIN PG_GC.GC_1.GC_6.S1_H2_MIN PG_GC.GC_1.GC_6.S1_H2_MIN PG_GC.GC_1.GC_6.S1_PQ_MIN PG_GC.GC_1.GC_6.S1_PQ_MIN PG_GC.GC_1.GC_6.S1_PQ_MIN PG_GC.GC_1.GC_6.S1_PQ_MIN PG_GC.GC_1.GC_6.S1_PQ_MAX PG_G	FG_GC.GC_1.GC_0.51_NC0_WAX	
PG_GC.GC_1.GC_6.S1_NC7_MAX Configuration Configuration PG_GC.GC_1.GC_6.S1_NC8_MIN Gas Chromatograph Configuration PG_GC.GC_1.GC_6.S1_NC8_MAX Gas Chromatograph Configuration PG_GC.GC_1.GC_6.S1_NC9_MIN Gas Chromatograph Configuration PG_GC.GC_1.GC_6.S1_NC9_MIN Gas Chromatograph Configuration PG_GC.GC_1.GC_6.S1_NC10_MIN Gas Chromatograph Configuration PG_GC.GC_1.GC_6.S1_NC10_MIN Gas Chromatograph Configuration PG_GC.GC_1.GC_6.S1_NC10_MAX Gas Chromatograph Configuration PG_GC.GC_1.GC_6.S1_H20_MIN Gas Chromatograph Configuration PG_GC.GC_1.GC_6.S1_H20_MIN Gas Chromatograph Configuration PG_GC.GC_1.GC_6.S1_H2S_MIN Gas Chromatograph Configuration PG_GC.GC_1.GC_6.S1_H2S_MAX Gas Chromatograph Configuration PG_GC.GC_1.GC_6.S1_H2_MAX Gas Chromatograph Configuration PG_GC.GC_1.GC_6.S1_H2_MAX Gas Chromatograph Configuration PG_GC.GC_1.GC_6.S1_CO_MIN Gas Chromatograph Configuration PG_GC.GC_1.GC_6.S1_CO_MIN Gas Chromatograph Configuration PG_GC.GC_1.GC_6.S1_O2_MIN Gas Chromatograph Configuration PG_GC.GC_1.GC_6.S1_D2_MAX Gas Chromatograph Configuration PG_GC.GC_1.GC_	PG GC GC 1 GC 6 S1 NC7 MIN	•
PG_GC.GC_1.GC_6.S1_NC7_MAX PG_GC.GC_1.GC_6.S1_NC8_MIN PG_GC.GC_1.GC_6.S1_NC8_MIN PG_GC.GC_1.GC_6.S1_NC8_MIN PG_GC.GC_1.GC_6.S1_NC8_MAX PG_GC.GC_1.GC_6.S1_NC9_MAX PG_GC.GC_1.GC_6.S1_NC9_MIN PG_GC.GC_1.GC_6.S1_NC9_MIN PG_GC.GC_1.GC_6.S1_NC9_MIN PG_GC.GC_1.GC_6.S1_NC9_MAX PG_GC.GC_1.GC_6.S1_NC10_MIN PG_GC.GC_1.GC_6.S1_NC10_MIN PG_GC.GC_1.GC_6.S1_NC10_MIN PG_GC.GC_1.GC_6.S1_NC10_MAX PG_GC.GC_1.GC_6.S1_NC10_MAX PG_GC.GC_1.GC_6.S1_NC10_MAX PG_GC.GC_1.GC_6.S1_H20_MIN PG_GC.GC_1.GC_6.S1_H20_MIN PG_GC.GC_1.GC_6.S1_H20_MIN PG_GC.GC_1.GC_6.S1_H20_MAX PG_GC.GC_1.GC_6.S1_CO_MIN PG_GC.GC_1.GC_6.S1_CO_MIN PG_GC.GC_1.GC_6.S1_CO_MAX PG_GC.GC_1.GC_6.S1_CO_MAX PG_GC.GC_1.GC_6.S1_CO_MAX PG_GC.GC_1.GC_6.S1_CO_MAX PG_GC.GC_1.GC_6.S1_DO_MAX PG_GC.GC_1.GC_6.S1_DO_MAX PG_GC.GC_1.GC_6.S1_DO_MAX PG_GC.GC_1.GC_6.S1_DO_MAX PG_GC.GC_1.GC_6.S1_DO_MAX PG_GC.GC_1.GC_6.S1_DO_MAX PG_GC.GC_1.GC_6.S1_DO_MAX PG_GC.GC_1.GC_6.S1_PI_MIN PG_GC.GC_1.GC_6.S1_PI_MIN PG_GC.GC_1.GC_6.S1_PI_MAX PG_	1 0_00.00_1.00_0.01_1\01_\\\\\\\\\\\\\\\\\	
PG_GC.GC_1.GC_6.S1_NC8_MIN PG_GC.GC_1.GC_6.S1_NC8_MAX PG_GC.GC_1.GC_6.S1_NC8_MAX PG_GC.GC_1.GC_6.S1_NC9_MIN PG_GC.GC_1.GC_6.S1_NC9_MIN PG_GC.GC_1.GC_6.S1_NC9_MIN PG_GC.GC_1.GC_6.S1_NC9_MAX PG_GC.GC_1.GC_6.S1_NC9_MAX PG_GC.GC_1.GC_6.S1_NC10_MIN PG_GC.GC_1.GC_6.S1_NC10_MIN PG_GC.GC_1.GC_6.S1_NC10_MIN PG_GC.GC_1.GC_6.S1_NC10_MAX PG_GC.GC_1.GC_6.S1_NC10_MAX PG_GC.GC_1.GC_6.S1_H20_MIN PG_GC.GC_1.GC_6.S1_H20_MIN PG_GC.GC_1.GC_6.S1_H20_MIN PG_GC.GC_1.GC_6.S1_H20_MIN PG_GC.GC_1.GC_6.S1_H20_MAX PG_GC.GC_1.GC_6.S1_H2S_MIN PG_GC.GC_1.GC_6.S1_H2S_MIN PG_GC.GC_1.GC_6.S1_H2S_MAX PG_GC.GC_1.GC_6.S1_H2MAX PG_GC.GC_1.GC_6.S1_H2MIN PG_GC.GC_1.GC_6.S1_H2MIN PG_GC.GC_1.GC_6.S1_H2MIN PG_GC.GC_1.GC_6.S1_H2MIN PG_GC.GC_1.GC_6.S1_H2MAX PG_GC.GC_1.GC_6.S1_H2MAX PG_GC.GC_1.GC_6.S1_H2MAX Gas Chromatograph Configuration PG_GC.GC_1.GC_6.S1_CO_MIN PG_GC.GC_1.GC_6.S1_CO_MIN PG_GC.GC_1.GC_6.S1_CO_MIN PG_GC.GC_1.GC_6.S1_CO_MIN PG_GC.GC_1.GC_6.S1_CO_MIN PG_GC.GC_1.GC_6.S1_O2_MIN PG_GC.GC_1.GC_6.S1_O2_MIN PG_GC.GC_1.GC_6.S1_D2_MIN PG_GC.GC_1.GC_6.S1_D2_MAX Gas Chromatograph Configuration PG_GC.GC_1.GC_6.S1_HE_MIN Gas Chromatograph Configuration PG_GC.GC_1.GC_6.S1_HE_MIN Gas Chromatograph Configuration PG_GC.GC_1.GC_6.S1_AR_MIN Gas Chromatograph Configuration PG_GC.GC_1.GC_6.S1_AR_MIN Gas Chromatograph Configuration PG_GC.GC_1.GC_6.S1_AR_MIN Gas Chromatograph Configuration PG_GC.GC_1.GC_6.S1_AR_MIN Gas Chromatograph Configuration PG_GC.GC_1.GC_6.S1_CO_MIN Gas Chromatograph Configuration PG_GC.GC_1.GC_6.S1_CO_MIN Gas Chromatograph Configuration PG_GC.GC_1.GC_6.S1_CO_MIN Gas Chromatograph Configuration PG_GC.GC_1.GC_6.S1_CO_MIN Gas Chromatograph Configuration PG_GC.GC_1.GC_6.S1_DE_MIN Gas Chromatograph Configuration Gas Chromatograph	PG GC GC 1 GC 6 S1 NC7 MAX	
PG_GC.GC_1.GC_6.S1_NC8_MIN PG_GC.GC_1.GC_6.S1_NC8_MAX PG_GC.GC_1.GC_6.S1_NC8_MAX PG_GC.GC_1.GC_6.S1_NC9_MIN PG_GC.GC_1.GC_6.S1_NC9_MIN PG_GC.GC_1.GC_6.S1_NC9_MAX PG_GC.GC_1.GC_6.S1_NC10_MIN PG_GC.GC_1.GC_6.S1_NC10_MIN PG_GC.GC_1.GC_6.S1_NC10_MIN PG_GC.GC_1.GC_6.S1_NC10_MAX PG_GC.GC_1.GC_6.S1_NC10_MAX PG_GC.GC_1.GC_6.S1_NC10_MAX PG_GC.GC_1.GC_6.S1_H20_MIN PG_GC.GC_1.GC_6.S1_H20_MIN PG_GC.GC_1.GC_6.S1_H20_MIN PG_GC.GC_1.GC_6.S1_H20_MAX PG_GC.GC_1.GC_6.S1_H20_MIN PG_GC.GC_1.GC_6.S1_H20_MIN PG_GC.GC_1.GC_6.S1_H2S_MIN PG_GC.GC_1.GC_6.S1_H2S_MIN PG_GC.GC_1.GC_6.S1_H2S_MAX PG_GC.GC_1.GC_6.S1_H2S_MAX PG_GC.GC_1.GC_6.S1_H2S_MAX PG_GC.GC_1.GC_6.S1_H2S_MAX PG_GC.GC_1.GC_6.S1_H2MAX PG_GC.GC_1.GC_6.S1_H2MAX PG_GC.GC_1.GC_6.S1_H2MAX PG_GC.GC_1.GC_6.S1_H2MAX PG_GC.GC_1.GC_6.S1_H2MAX PG_GC.GC_1.GC_6.S1_CO_MIN PG_GC.GC_1.GC_6.S1_CO_MIN PG_GC.GC_1.GC_6.S1_CO_MIN PG_GC.GC_1.GC_6.S1_CO_MIN PG_GC.GC_1.GC_6.S1_O2_MIN PG_GC.GC_1.GC_6.S1_O2_MIN PG_GC.GC_1.GC_6.S1_D2_MAX PG_GC.GC_1.GC_6.S1_PE_MIN PG_GC.GC_1.GC_6.S1_PE_MAX PG_GC.GC_1.GC_6.S1_PE_M	1 0_00.00_1.00_0.01_1107_111/01	
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PG_GC.GC_1.GC_6.S1_C9plus_MIN	Gas Chromatograph
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PG_GC.GC_1.GC_6.S1_C9plus_MAX	Gas Chromatograph
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PG_GC.GC_1.GC_6.S1_CHDP_MIN	Gas Chromatograph
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PG_GC.GC_1.GC_6.S1_CHDP_MAX	Gas Chromatograph
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PG_GC.GC_1.GC_6.S1_Compressability_	Gas Chromatograph
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PG_GC.GC_1.GC_6.S1_Compressability_	Gas Chromatograph
MAX	Configuration
PG_GC.GC_1.GC_6.S1_TotalUnNmMoleP	Gas Chromatograph
_MIN	Configuration
PG_GC.GC_1.GC_6.S1_TotalUnNmMoleP	Gas Chromatograph
MAX	Configuration
PG_GC.GC_1.GC_6.S1_TotalGPM_MIN	Gas Chromatograph
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PG_GC.GC_1.GC_2.HTVAL_DB PG_GC.GC_1.GC_2.SG_DB PG_GC.GC_1.GC_2.Skip_General_Fail PG_GC.GC_1.GC_2.Skip_General_Fail PG_GC.GC_1.GC_2.Skip_Delta_Fail PG_GC.GC_1.GC_2.Skip_Delta_Fail PG_GC.GC_1.GC_3.IPMODE PG_GC.GC_1.GC_3.IPMODE PG_GC.GC_1.GC_3.IICOMMPORT PG_GC.GC_1.GC_3.SLAVEADDRESS PG_GC.GC_1.GC_3.IPADDR PG_GC.GC_1.GC_3.IPADDR PG_GC.GC_1.GC_3.IPADDR PG_GC.GC_1.GC_3.IPADDR PG_GC.GC_1.GC_3.IPADDR PG_GC.GC_1.GC_3.IPADDR PG_GC.GC_1.GC_3.STREAM PG_GC.GC_1.GC_3.STREAM PG_GC.GC_1.GC_3.USE_FIXED PG_GC.GC_1.GC_3.MODE		
PG_GC.GC_1.GC_2.SG_DB PG_GC.GC_1.GC_2.Skip_General_Fail PG_GC.GC_1.GC_2.Skip_General_Fail PG_GC.GC_1.GC_2.Skip_Delta_Fail PG_GC.GC_1.GC_2.Skip_Delta_Fail PG_GC.GC_1.GC_3.IPMODE PG_GC.GC_1.GC_3.IPMODE PG_GC.GC_1.GC_3.IICOMMPORT PG_GC.GC_1.GC_3.SLAVEADDRESS PG_GC.GC_1.GC_3.SLAVEADDRESS PG_GC.GC_1.GC_3.IPADDR PG_GC.GC_1.GC_3.IPADDR PG_GC.GC_1.GC_3.IPADDR PG_GC.GC_1.GC_3.SLAVEADDRESS PG_GC.GC_1.GC_3.STPADDR PG_GC.GC_1.GC_3.GC_TYPE Gas Chromatograph Configuration PG_GC.GC_1.GC_3.S1_GC_STREAM PG_GC.GC_1.GC_3.SS1_GC_STREAM PG_GC.GC_1.GC_3.USE_FIXED PG_GC.GC_1.GC_3.MODE PG_GC.GC_1.GC_3.MODE Gas Chromatograph Configuration PG_GC.GC_1.GC_3.USE_FIXED Gas Chromatograph Configuration PG_GC.GC_1.GC_3.MODE Gas Chromatograph Configuration PG_GC.GC_1.GC_3.MODE Gas Chromatograph Configuration	PG_GC.GC_1.GC_2.HTVAL_DB	
PG_GC.GC_1.GC_2.SG_DB PG_GC.GC_1.GC_2.Skip_General_Fail PG_GC.GC_1.GC_2.Skip_General_Fail PG_GC.GC_1.GC_2.Skip_Delta_Fail PG_GC.GC_1.GC_2.Skip_Delta_Fail PG_GC.GC_1.GC_3.IPMODE PG_GC.GC_1.GC_3.IPMODE PG_GC.GC_1.GC_3.IICOMMPORT PG_GC.GC_1.GC_3.SLAVEADDRESS PG_GC.GC_1.GC_3.SLAVEADDRESS PG_GC.GC_1.GC_3.IPADDR PG_GC.GC_1.GC_3.IPADDR PG_GC.GC_1.GC_3.GC_TYPE Gas Chromatograph Configuration PG_GC.GC_1.GC_3.S1_GC_STREAM PG_GC.GC_1.GC_3.S1_GC_STREAM PG_GC.GC_1.GC_3.USE_FIXED PG_GC.GC_1.GC_3.MODE PG_GC.GC_1.GC_3.MODE Gas Chromatograph Configuration PG_GC.GC_1.GC_3.MODE Gas Chromatograph Configuration PG_GC.GC_1.GC_3.MODE Gas Chromatograph Configuration PG_GC.GC_1.GC_3.MODE Gas Chromatograph Configuration		
PG_GC.GC_1.GC_2.Skip_General_Fail PG_GC.GC_1.GC_2.Skip_Delta_Fail PG_GC.GC_1.GC_2.Skip_Delta_Fail PG_GC.GC_1.GC_3.IPMODE PG_GC.GC_1.GC_3.IPMODE PG_GC.GC_1.GC_3.IICOMMPORT PG_GC.GC_1.GC_3.IICOMMPORT PG_GC.GC_1.GC_3.SLAVEADDRESS Gas Chromatograph Configuration PG_GC.GC_1.GC_3.IPADDR PG_GC.GC_1.GC_3.IPADDR Gas Chromatograph Configuration PG_GC.GC_1.GC_3.IPADDR Gas Chromatograph Configuration PG_GC.GC_1.GC_3.GC_TYPE Gas Chromatograph Configuration PG_GC.GC_1.GC_3.S1_GC_STREAM Gas Chromatograph Configuration PG_GC.GC_1.GC_3.USE_FIXED Gas Chromatograph Configuration PG_GC.GC_1.GC_3.MODE Gas Chromatograph Configuration PG_GC.GC_1.GC_3.MODE Gas Chromatograph Configuration	PG_GC.GC_1.GC_2.SG_DB	Gas Chromatograph
PG_GC.GC_1.GC_2.Skip_Delta_Fail PG_GC.GC_1.GC_3.IPMODE PG_GC.GC_1.GC_3.IPMODE PG_GC.GC_1.GC_3.IICOMMPORT PG_GC.GC_1.GC_3.IICOMMPORT PG_GC.GC_1.GC_3.SLAVEADDRESS PG_GC.GC_1.GC_3.SLAVEADDRESS PG_GC.GC_1.GC_3.IPADDR PG_GC.GC_1.GC_3.IPADDR PG_GC.GC_1.GC_3.GC_TYPE Gas Chromatograph Configuration PG_GC.GC_1.GC_3.S1_GC_STREAM PG_GC.GC_1.GC_3.USE_FIXED PG_GC.GC_1.GC_3.MODE PG_GC.GC_1.GC_3.MODE Gas Chromatograph Configuration PG_GC.GC_1.GC_3.USE_FIXED Gas Chromatograph Configuration PG_GC.GC_1.GC_3.MODE Gas Chromatograph Configuration PG_GC.GC_1.GC_3.MODE Gas Chromatograph Configuration		Configuration
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PG_GC.GC_1.GC_3.IPMODE PG_GC.GC_1.GC_3.IICOMMPORT PG_GC.GC_1.GC_3.IICOMMPORT PG_GC.GC_1.GC_3.SLAVEADDRESS PG_GC.GC_1.GC_3.SLAVEADDRESS PG_GC.GC_1.GC_3.IPADDR PG_GC.GC_1.GC_3.IPADDR PG_GC.GC_1.GC_3.IPADDR PG_GC.GC_1.GC_3.GC_TYPE Gas Chromatograph Configuration PG_GC.GC_1.GC_3.S1_GC_STREAM PG_GC.GC_1.GC_3.S1_GC_STREAM PG_GC.GC_1.GC_3.USE_FIXED PG_GC.GC_1.GC_3.MODE Gas Chromatograph Configuration PG_GC.GC_1.GC_3.MODE Gas Chromatograph Configuration PG_GC.GC_1.GC_3.MODE Gas Chromatograph Configuration PG_GC.GC_1.GC_3.MODE Gas Chromatograph Configuration		Configuration
PG_GC.GC_1.GC_3.IPMODE PG_GC.GC_1.GC_3.IICOMMPORT PG_GC.GC_1.GC_3.IICOMMPORT PG_GC.GC_1.GC_3.SLAVEADDRESS PG_GC.GC_1.GC_3.SLAVEADDRESS PG_GC.GC_1.GC_3.IPADDR PG_GC.GC_1.GC_3.IPADDR PG_GC.GC_1.GC_3.IPADDR PG_GC.GC_1.GC_3.GC_TYPE Gas Chromatograph Configuration PG_GC.GC_1.GC_3.S1_GC_STREAM PG_GC.GC_1.GC_3.S1_GC_STREAM PG_GC.GC_1.GC_3.USE_FIXED PG_GC.GC_1.GC_3.MODE Gas Chromatograph Configuration PG_GC.GC_1.GC_3.MODE Gas Chromatograph Configuration PG_GC.GC_1.GC_3.MODE Gas Chromatograph Configuration PG_GC.GC_1.GC_3.MODE Gas Chromatograph Configuration	PG_GC.GC_1.GC_2.Skip_Delta_Fail	
PG_GC.GC_1.GC_3.IICOMMPORT PG_GC.GC_1.GC_3.SLAVEADDRESS PG_GC.GC_1.GC_3.SLAVEADDRESS PG_GC.GC_1.GC_3.IPADDR PG_GC.GC_1.GC_3.IPADDR PG_GC.GC_1.GC_3.GC_TYPE Gas Chromatograph Configuration PG_GC.GC_1.GC_3.S1_GC_STREAM PG_GC.GC_1.GC_3.USE_FIXED PG_GC.GC_1.GC_3.MODE Gas Chromatograph Configuration PG_GC.GC_1.GC_3.MODE Gas Chromatograph Configuration Gas Chromatograph Configuration PG_GC.GC_1.GC_3.MODE Gas Chromatograph Configuration PG_GC.GC_1.GC_3.MODE Gas Chromatograph Configuration		Configuration
PG_GC.GC_1.GC_3.IICOMMPORT PG_GC.GC_1.GC_3.SLAVEADDRESS Gas Chromatograph Configuration PG_GC.GC_1.GC_3.IPADDR PG_GC.GC_1.GC_3.IPADDR Gas Chromatograph Configuration PG_GC.GC_1.GC_3.GC_TYPE Gas Chromatograph Configuration PG_GC.GC_1.GC_3.S1_GC_STREAM PG_GC.GC_1.GC_3.USE_FIXED Gas Chromatograph Configuration PG_GC.GC_1.GC_3.MODE Gas Chromatograph Configuration PG_GC.GC_1.GC_3.MODE Gas Chromatograph Configuration PG_GC.GC_1.GC_3.MODE Gas Chromatograph Configuration	PG_GC.GC_1.GC_3.IPMODE	
PG_GC.GC_1.GC_3.SLAVEADDRESS Gas Chromatograph Configuration PG_GC.GC_1.GC_3.IPADDR Gas Chromatograph Configuration PG_GC.GC_1.GC_3.GC_TYPE Gas Chromatograph Configuration PG_GC.GC_1.GC_3.S1_GC_STREAM Gas Chromatograph Configuration PG_GC.GC_1.GC_3.USE_FIXED Gas Chromatograph Configuration PG_GC.GC_1.GC_3.MODE Gas Chromatograph Configuration PG_GC.GC_1.GC_3.MODE Gas Chromatograph Configuration		
PG_GC.GC_1.GC_3.SLAVEADDRESS Gas Chromatograph Configuration PG_GC.GC_1.GC_3.IPADDR Gas Chromatograph Configuration PG_GC.GC_1.GC_3.GC_TYPE Gas Chromatograph Configuration PG_GC.GC_1.GC_3.S1_GC_STREAM Gas Chromatograph Configuration PG_GC.GC_1.GC_3.USE_FIXED Gas Chromatograph Configuration PG_GC.GC_1.GC_3.MODE Gas Chromatograph Configuration PG_GC.GC_1.GC_3.MODE Gas Chromatograph Configuration	PG_GC.GC_1.GC_3.IICOMMPORT	
Configuration PG_GC.GC_1.GC_3.IPADDR Gas Chromatograph Configuration PG_GC.GC_1.GC_3.GC_TYPE Gas Chromatograph Configuration PG_GC.GC_1.GC_3.S1_GC_STREAM Gas Chromatograph Configuration PG_GC.GC_1.GC_3.USE_FIXED Gas Chromatograph Configuration PG_GC.GC_1.GC_3.MODE Gas Chromatograph Configuration PG_GC.GC_1.GC_3.MODE Gas Chromatograph Configuration		
PG_GC.GC_1.GC_3.IPADDR PG_GC.GC_1.GC_3.GC_TYPE Gas Chromatograph Configuration PG_GC.GC_1.GC_3.S1_GC_STREAM PG_GC.GC_1.GC_3.S1_GC_STREAM PG_GC.GC_1.GC_3.USE_FIXED Gas Chromatograph Configuration PG_GC.GC_1.GC_3.MODE Gas Chromatograph Configuration PG_GC.GC_1.GC_3.MODE Gas Chromatograph Configuration	PG_GC.GC_1.GC_3.SLAVEADDRESS	
Configuration PG_GC.GC_1.GC_3.GC_TYPE PG_GC.GC_1.GC_3.S1_GC_STREAM PG_GC.GC_1.GC_3.USE_FIXED PG_GC.GC_1.GC_3.MODE Configuration Gas Chromatograph Configuration Gas Chromatograph Configuration Gas Chromatograph Configuration Gas Chromatograph Configuration		
PG_GC.GC_1.GC_3.GC_TYPE Gas Chromatograph Configuration PG_GC.GC_1.GC_3.S1_GC_STREAM Gas Chromatograph Configuration PG_GC.GC_1.GC_3.USE_FIXED Gas Chromatograph Configuration PG_GC.GC_1.GC_3.MODE Gas Chromatograph Configuration Gas Chromatograph Configuration	PG_GC.GC_1.GC_3.IPADDR	
Configuration PG_GC.GC_1.GC_3.S1_GC_STREAM PG_GC.GC_1.GC_3.USE_FIXED PG_GC.GC_1.GC_3.MODE PG_GC.GC_1.GC_3.MODE Gas Chromatograph Configuration Gas Chromatograph Configuration		
PG_GC.GC_1.GC_3.S1_GC_STREAM PG_GC.GC_1.GC_3.USE_FIXED PG_GC.GC_1.GC_3.MODE Gas Chromatograph Configuration Gas Chromatograph Configuration Gas Chromatograph Configuration	PG_GC.GC_1.GC_3.GC_TYPE	
PG_GC.GC_1.GC_3.USE_FIXED PG_GC.GC_1.GC_3.MODE PG_GC.GC_1.GC_3.MODE Configuration Gas Chromatograph Configuration	DO 00 00 4 00 004 00 0TDE444	•
PG_GC.GC_1.GC_3.USE_FIXED Gas Chromatograph Configuration PG_GC.GC_1.GC_3.MODE Gas Chromatograph Configuration	PG_GC.GC_1.GC_3.S1_GC_STREAM	
PG_GC.GC_1.GC_3.MODE Gas Chromatograph Configuration	DC CC CC 4 CC 2 USE FIVED	
PG_GC.GC_1.GC_3.MODE Gas Chromatograph Configuration	FG_GC.GC_1.GC_3.USE_FIXED	
Configuration	PG GC GC 1 GC 3 MODE	
	FG_GC.GC_1.GC_3.MODE 	
PL3 131. 131. 1 1 1 1 1 1 1 1 1	PG_GC.GC_1.GC_3.TIMER_EN	Gas Chromatograph
Configuration	TO_OO.GO_T.GO_S.TIMEN_EN	
PG_GC.GC_1.GC_3.TIMED_DATE Gas Chromatograph	PG GC GC 1 GC 3 TIMED DATE	
Configuration		
PG_GC.GC_1.GC_3.TIMED_TIME Gas Chromatograph	PG GC GC 1 GC 3 TIMED TIME	•
Configuration		
PG_GC.GC_1.GC_3.HTVAL_DB Gas Chromatograph	PG GC.GC 1.GC 3.HTVAL DB	
Configuration		
PG_GC.GC_1.GC_3.SG_DB Gas Chromatograph	PG GC.GC 1.GC 3.SG DB	
Configuration		
PG_GC.GC_1.GC_3.Skip_General_Fail Gas Chromatograph	PG GC.GC 1.GC 3.Skip General Fail	
Configuration		
PG_GC.GC_1.GC_3.Skip_Delta_Fail Gas Chromatograph	PG_GC.GC_1.GC_3.Skip_Delta Fail	
Configuration		

Signal	Description
PG_GC.GC_1.GC_4.IPMODE	Gas Chromatograph
1 0_00.00_1.00_4.11 MODE	Configuration
PG_GC.GC_1.GC_4.IICOMMPORT	Gas Chromatograph
1 0_00.00_1.00_4.1100MMII 01(1	Configuration
PG_GC.GC_1.GC_4.SLAVEADDRESS	Gas Chromatograph
1 0_00.00_1.00_4.0L/VE/DB/NE00	Configuration
PG_GC.GC_1.GC_4.IPADDR	Gas Chromatograph
1 0_00.00_1.00_4.11 ABBIT	Configuration
PG_GC.GC_1.GC_4.GC_TYPE	Gas Chromatograph
1 0_00.00000	Configuration
PG_GC.GC_1.GC_4.S1_GC_STREAM	Gas Chromatograph
1 0_00.00_1100_1101_00_011127	Configuration
PG_GC.GC_1.GC_4.USE_FIXED	Gas Chromatograph
1 0_00.00_1.00_1.00E_1 INEB	Configuration
PG_GC.GC_1.GC_4.MODE	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.TIMER_EN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.TIMED_DATE	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.TIMED_TIME	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.HTVAL_DB	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.SG_DB	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.Skip_General_Fail	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.Skip_Delta_Fail	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.IPMODE	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.IICOMMPORT	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.SLAVEADDRESS	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.IPADDR	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.GC_TYPE	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.S1_GC_STREAM	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.USE_FIXED	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.MODE	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.TIMER_EN	Gas Chromatograph
D2 00 00 400 - = 111 - = 1 - = 1	Configuration
PG_GC.GC_1.GC_5.TIMED_DATE	Gas Chromatograph
PO 00 00 4 00 5 THEFT THE	Configuration
PG_GC.GC_1.GC_5.TIMED_TIME	Gas Chromatograph
PO 00 00 4 00 5 1 T (1) 5 P	Configuration
PG_GC.GC_1.GC_5.HTVAL_DB	Gas Chromatograph
PO 00 00 4 00 5 00 PD	Configuration
PG_GC.GC_1.GC_5.SG_DB	Gas Chromatograph
	Configuration

Signal	Description
PG_GC.GC_1.GC_5.Skip_General_Fail	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.Skip_Delta_Fail	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.IPMODE	Gas Chromatograph
1 0_00.00_1.00_0.11 MODE	Configuration
PG_GC.GC_1.GC_6.IICOMMPORT	Gas Chromatograph
1 0_00.00_1.00_000	Configuration
PG_GC.GC_1.GC_6.SLAVEADDRESS	Gas Chromatograph
1 0_00.00_1.00_0.027 (V27.0001.020	Configuration
PG_GC.GC_1.GC_6.IPADDR	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.GC_TYPE	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.S1_GC_STREAM	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.USE_FIXED	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.MODE	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.TIMER_EN	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.TIMED_DATE	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.TIMED_TIME	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.HTVAL_DB	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.SG_DB	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.Skip_General_Fail	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.Skip_Delta_Fail	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_1.Stale_Time	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_2.Stale_Time	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.Stale_Time	Gas Chromatograph
PO 00 00 4 00 4 00 1 =	Configuration
PG_GC.GC_1.GC_4.Stale_Time	Gas Chromatograph
DO 00 00 4 00 5 00 5 T	Configuration
PG_GC.GC_1.GC_5.Stale_Time	Gas Chromatograph
DC CC CC 4 CC C Ct-1- T'00	Configuration
PG_GC.GC_1.GC_6.Stale_Time	Gas Chromatograph
DC CC CC 4 CC 4 C4 NCC FACT	Configuration
PG_GC.GC_1.GC_1.S1_NC6_FACT	Gas Chromatograph
DC CC CC 1 CC 1 S1 NC7 FACT	Configuration
PG_GC.GC_1.GC_1.S1_NC7_FACT	Gas Chromatograph
PG CC CC 1 CC 1 S1 NC0 FACT	Configuration
PG_GC.GC_1.GC_1.S1_NC8_FACT	Gas Chromatograph
PG GC GC 1 CC 1 S1 NC0 FACT	Configuration
PG_GC.GC_1.GC_1.S1_NC9_FACT	Gas Chromatograph
PG GC GC 1 CC 1 S1 NC10 FACT	Configuration
PG_GC.GC_1.GC_1.S1_NC10_FACT	Gas Chromatograph
	Configuration

Signal	Description
PG_GC.GC_1.GC_2.S1_NC6_FACT	Gas Chromatograph
1 0_00.00_1.00_2.01_1100_17.01	Configuration
PG_GC.GC_1.GC_2.S1_NC7_FACT	Gas Chromatograph
1 0_00.00_1.00_2.01_N07_17/01	Configuration
PG_GC.GC_1.GC_2.S1_NC8_FACT	Gas Chromatograph
1 0_00.00_1.00_2.01_1000_17.01	Configuration
PG_GC.GC_1.GC_2.S1_NC9_FACT	Gas Chromatograph
1 0_00.00_1.00_2.01_100_17.01	Configuration
PG_GC.GC_1.GC_2.S1_NC10_FACT	Gas Chromatograph
1 0_00.00_1.00_2.01_10010_17.01	Configuration
PG_GC.GC_1.GC_3.S1_NC6_FACT	Gas Chromatograph
1 0_00.00_1.00_0.01_1100_17101	Configuration
PG_GC.GC_1.GC_3.S1_NC7_FACT	Gas Chromatograph
1 0_00.00_1.00_0.01_1107_17101	Configuration
PG_GC.GC_1.GC_3.S1_NC8_FACT	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.S1_NC9_FACT	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_3.S1_NC10_FACT	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.S1_NC6_FACT	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.S1_NC7_FACT	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.S1_NC8_FACT	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.S1_NC9_FACT	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.S1_NC10_FACT	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.S1_NC6_FACT	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.S1_NC7_FACT	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.S1_NC8_FACT	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.S1_NC9_FACT	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.S1_NC10_FACT	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.S1_NC6_FACT	Gas Chromatograph
PO 00 00 4 00 004 NOT THE	Configuration
PG_GC.GC_1.GC_6.S1_NC7_FACT	Gas Chromatograph
DC CC CC 4 CC C C4 NCC 54CT	Configuration
PG_GC.GC_1.GC_6.S1_NC8_FACT	Gas Chromatograph
DC CC CC 4 CC C C4 NCC FACT	Configuration
PG_GC.GC_1.GC_6.S1_NC9_FACT	Gas Chromatograph
DC CC CC 1 CC 6 C1 NC40 FACT	Configuration
PG_GC.GC_1.GC_6.S1_NC10_FACT	Gas Chromatograph
PG GC GC 1 CC 1 LITVAL Linita	Configuration
PG_GC.GC_1.GC_1.HTVAL_Units	Gas Chromatograph Configuration
PG GC GC 1 GC 1 UTV/AL DD	
PG_GC.GC_1.GC_1.HTVAL_PB	Gas Chromatograph Configuration
PG_GC.GC_1.GC_1.HTVAL_TB	Gas Chromatograph
1 0_GO.GO_1.GO_1.111 VAL_1D	Configuration
	Corniguration

Signal	Description
PG_GC.GC_1.GC_2.HTVAL_Units	Gas Chromatograph
1 0_00.00_1.00_2.111 VAL_011113	Configuration
PG_GC.GC_1.GC_2.HTVAL_PB	Gas Chromatograph
1 0_00.00_1.00_2.111	Configuration
PG_GC.GC_1.GC_2.HTVAL_TB	Gas Chromatograph
1 0_00.00_1.00_2.111 VAL_1D	Configuration
PG_GC.GC_1.GC_3.HTVAL_Units	Gas Chromatograph
1 0_00.00_1.00_0.111 VAL_01110	Configuration
PG_GC.GC_1.GC_3.HTVAL_PB	Gas Chromatograph
1 0_00.00_1.00_0 7 12_1 2	Configuration
PG_GC.GC_1.GC_3.HTVAL_TB	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.HTVAL_Units	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.HTVAL_PB	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_4.HTVAL_TB	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.HTVAL_Units	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.HTVAL_PB	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_5.HTVAL_TB	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.HTVAL_Units	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.HTVAL_PB	Gas Chromatograph
	Configuration
PG_GC.GC_1.GC_6.HTVAL_TB	Gas Chromatograph
	Configuration
PG_GC.GC_1.Default_Ar	Gas Chromatograph
	Configuration
PG_GC.GC_1.Default_CO	Gas Chromatograph
	Configuration
PG_GC.GC_1.Default_H2	Gas Chromatograph
	Configuration
PG_GC.GC_1.Default_H2O	Gas Chromatograph
DO 00 00 4 D foots 1100	Configuration
PG_GC.GC_1.Default_H2S	Gas Chromatograph
DC CC CC 1 Default 11a	Configuration
PG_GC.GC_1.Default_He	Gas Chromatograph
PG_GC.GC_1.Default_O2	Configuration Gas Chromatograph
	Configuration
PG_GC.GC_1.Default_BTU	Gas Chromatograph
	Configuration
PG_GC.GC_1.Default_C2	Gas Chromatograph
1 0_00.00_1.Delault_02	Configuration
PG_GC.GC_1.Default_C3	Gas Chromatograph
	Configuration
PG_GC.GC_1.Default_CH4	Gas Chromatograph
	Configuration
PG_GC.GC_1.Default_CO2	Gas Chromatograph
	Configuration
PG_GC.GC_1.Default_IC4	Gas Chromatograph
	Configuration

Signal	Description
PG_GC.GC_1.Default_IC5	Gas Chromatograph
	Configuration
PG_GC.GC_1.Default_N2	Gas Chromatograph
	Configuration
PG_GC.GC_1.Default_NC4	Gas Chromatograph
	Configuration
PG_GC.GC_1.Default_NC5	Gas Chromatograph
	Configuration
PG_GC.GC_1.Default_NC6	Gas Chromatograph
	Configuration
PG_GC.GC_1.Default_NC7	Gas Chromatograph
	Configuration
PG_GC.GC_1.Default_NC8	Gas Chromatograph
	Configuration
PG_GC.GC_1.Default_NC9	Gas Chromatograph
	Configuration
PG_GC.GC_1.Default_NC10	Gas Chromatograph
	Configuration
PG_GC.GC_1.Default_SG	Gas Chromatograph
	Configuration
PG_GC.GC_1.Default_NeoC5	Gas Chromatograph
	Configuration
PG_GC.GC_1.Default_BTUSat	Gas Chromatograph
	Configuration
PG_GC.GC_1.Default_Wobbe	Gas Chromatograph
	Configuration
PG_GC.GC_1.Default_C6Plus	Gas Chromatograph
	Configuration
PG_GC.GC_1.Default_C9Plus	Gas Chromatograph
	Configuration
PG_GC.GC_1.Default_CHDP	Gas Chromatograph
	Configuration
PG_GC.GC_1.Default_Compressability	Gas Chromatograph
	Configuration
PG_GC.GC_1.Default_TotalUnNmMoleP	Gas Chromatograph
_	Configuration
PG_GC.GC_1.Default_TotalGPM	Gas Chromatograph
	Configuration

Verification Triggering Events (VTEs)

Under Measurement Canada regulations, if you modify certain parameters in the Station Manager application running in the device you automatically generate a Verification Triggering Event (VTE). When a VTE occurs, Measurement Canada must verify the device before it can be used or returned to service.

Modification of any of the signals shown in *Table C-2* generates a Verification Triggering Event (VTE) which requires Measurement Canada to verify the device before you use it or return it to service. All VTEs generate an event that is stored in the audit log.

Table C-2. Modification of These Signals Constitutes a Verification Triggering Event

Signal	Description
FC.FC1.RX_CFG_TYPE	Run <i>n</i> configuration type 0=Not Configured 1=Orifice 2=Turbine 3=Auto Adjust 4=Ultrasonic 5=PD 6=Coriolis 7=Annubar 8=Venturi 9=V-Cone
FC.FC1.RX_GCSTREAM	GC Data Set Assignment for Run x (from FC.STATION_x_GCSTREAM)
FC.FC2.RX_CFG_TYPE	Run <i>n</i> configuration type 0=Not Configured 1=Orifice 2=Turbine 3=Auto Adjust 4=Ultrasonic 5=PD 6=Coriolis 7=Annubar 8=Venturi 9=V-Cone
FC.FC2.RX_GCSTREAM	GC Data Set Assignment for Run x (from FC.STATION x GCSTREAM)
FC.FC3.RX_CFG_TYPE	Run <i>n</i> configuration type 0=Not Configured 1=Orifice 2=Turbine 3=Auto Adjust 4=Ultrasonic 5=PD 6=Coriolis 7=Annubar 8=Venturi 9=V-Cone
FC.FC3.RX_GCSTREAM	GC Data Set Assignment for Run x (from FC.STATION_x_GCSTREAM)
FC.FC4.RX_CFG_TYPE	Run <i>n</i> configuration type 0=Not Configured 1=Orifice 2=Turbine 3=Auto Adjust 4=Ultrasonic 5=PD 6=Coriolis 7=Annubar 8=Venturi 9=V-Cone
FC.FC4.RX_GCSTREAM	GC Data Set Assignment for Run x (from FC.STATION x GCSTREAM)
FC.FC5.RX_CFG_TYPE	Run <i>n</i> configuration type 0=Not Configured 1=Orifice 2=Turbine 3=Auto Adjust 4=Ultrasonic 5=PD 6=Coriolis 7=Annubar 8=Venturi 9=V-Cone
FC.FC5.RX_GCSTREAM	GC Data Set Assignment for Run x (from FC.STATION x GCSTREAM)
FC.FC6.RX_CFG_TYPE	Run <i>n</i> configuration type 0=Not Configured 1=Orifice 2=Turbine 3=Auto Adjust 4=Ultrasonic 5=PD 6=Coriolis 7=Annubar 8=Venturi 9=V-Cone
FC.FC6.RX_GCSTREAM	GC Data Set Assignment for Run x (from FC.STATION_x_GCSTREAM)
FC.R1_AIID_DP	Run Configuration
FC.R1_AISP_DP	Run Configuration
FC.R1_AIDB_DP	Run Configuration
FC.R1_AIID_SP	Run Configuration

Signal	Description
FC.R1_AISP_SP	Run Configuration
FC.R1_AIDB_SP	Run Configuration
FC.R1_AIID_FT	Run Configuration
FC.R1_AISP_FT	Run Configuration
FC.R1_AIDB_FT	Run Configuration
FC.R2_AIID_DP	Run Configuration
FC.R2_AISP_DP	Run Configuration
FC.R2_AIDB_DP	Run Configuration
FC.R2_AIID_SP	Run Configuration
FC.R2_AISP_SP	Run Configuration
FC.R2_AIDB_SP	Run Configuration
FC.R2_AIID_FT	Run Configuration
FC.R2_AISP_FT	Run Configuration
FC.R2_AIDB_FT	Run Configuration
FC.R3_AIID_DP	Run Configuration
FC.R3_AISP_DP	Run Configuration
FC.R3_AIDB_DP	Run Configuration
FC.R3_AIID_SP	Run Configuration
FC.R3_AISP_SP	Run Configuration
FC.R3_AIDB_SP	Run Configuration
FC.R3_AIID_FT	Run Configuration
FC.R3_AISP_FT	Run Configuration
FC.R3_AIDB_FT	Run Configuration
FC.R4_AIID_DP	Run Configuration
FC.R4_AISP_DP	Run Configuration
FC.R4_AIDB_DP	Run Configuration
FC.R4_AIID_SP	Run Configuration
FC.R4_AISP_SP	Run Configuration
FC.R4_AIDB_SP	Run Configuration
FC.R4_AIID_FT	Run Configuration
FC.R4_AISP_FT	Run Configuration
FC.R4_AIDB_FT	Run Configuration
FC.R5_AIID_DP	Run Configuration
FC.R5_AISP_DP	Run Configuration
FC.R5_AIDB_DP	Run Configuration
FC.R5_AIID_SP	Run Configuration
FC.R5_AISP_SP	Run Configuration
FC.R5_AIDB_SP	Run Configuration
FC.R5_AIID_FT	Run Configuration
FC.R5_AISP_FT	Run Configuration
FC.R5_AIDB_FT	Run Configuration
FC.R6_AIID_DP	Run Configuration

Signal	Description
FC.R6_AISP_DP	Run Configuration
FC.R6_AIDB_DP	Run Configuration
FC.R6_AIID_SP	Run Configuration
FC.R6_AISP_SP	Run Configuration
FC.R6_AIDB_SP	Run Configuration
FC.R6_AIID_FT	Run Configuration
FC.R6_AISP_FT	Run Configuration
FC.R6_AIDB_FT	Run Configuration
FC.R1_MAINT_MODE	Run Configuration
FC.STATION_1_FPV_CALC	Station Configuration
FC.STATION_1_GROSSMODE	Station Configuration
FC.STATION_1_UseBTUSat	Station Configuration
FC.STATION_2_FPV_CALC	Station Configuration
FC.STATION_2_GROSSMODE	Station Configuration
FC.STATION_2_UseBTUSat	Station Configuration
FC.STATION_3_FPV_CALC	Station Configuration
FC.STATION_3_GROSSMODE	Station Configuration
FC.STATION_3_UseBTUSat	Station Configuration
FC.STATION_4_GCSTREAM	Station Configuration
FC.STATION_4_FPV_CALC	Station Configuration
FC.STATION_4_UseBTUSat	Station Configuration
FC.STATION_5_FPV_CALC	Station Configuration
FC.STATION_5_GROSSMODE	Station Configuration
FC.STATION_5_UseBTUSat	Station Configuration
FC.STATION_6_FPV_CALC	Station Configuration
FC.STATION_6_GROSSMODE	Station Configuration
FC.STATION_6_UseBTUSat	Station Configuration
FC.FC1.RX_FLOWEQN_SELECT	Run <i>n</i> AGA3 equation select (1985,1992,2012)
FC.RUN_1_SPSOURCE	Run <i>n</i> static pressure source
FC.R1_MVTID_SP	Run n MVT ID for static pressure
IO_1.R1_SP_INP_Units	Run n Static Pressure Units
FC.R1_SP_ZERO	Run n Static Pressure Zero
FC.R1_SP_SPAN	Run n Static Pressure Span
FC.FC1.RX_SP_MO	Static Pressure Manual Override for Run <i>n</i>
FC.FC1.RX_SP_BUF	Static Pressure Manual Override Value for Run n
FC.RUN_1_FTSOURCE	Run <i>n</i> temperature source
FC.R1_MVTID_FT	Run <i>n</i> MVT ID for temperature
IO_1.R1_FTEMP_INP_Units	Run <i>n</i> Flowing Temperature Units
FC.R1_FT_ZERO	Run <i>n</i> Flowing Temperature Zero
FC.R1_FT_SPAN	Run <i>n</i> Flowing Temperature Span
FC.FC1.RX_FTEMP_MO	Flowing Temperature Manual

Signal	Description
	Override for Run n
FC.FC1.RX_FTEMP_BUF	Flowing Temperature Manual Override Value for Run <i>n</i>
FC.RUN_1_DPSOURCE	Run <i>n</i> static pressure source
FC.R1_MVTID_DP	Run <i>n</i> MVT ID for differential pressure
FC.FC1.RX_DP_MO	Differential Pressure Manual Override for Run <i>n</i>
FC.FC1.RX_DP_BUF	Differential Pressure Manual Override Value for Run <i>n</i>
IO_1.R1_DP_INP_Units	Run n Differential Pressure Units
IO_1.R1_DP_ZERO	Run n Differential Pressure Zero
IO_1.R1_DP_SPAN	Run n Differential Pressure Span
FC.FC1.RX_TAP_LOC	Tap Location Up/DownStream for Run <i>n</i>
FC.FC1.RX_TAP_TYPE	Tap Type for Run <i>n</i>
FC.AA_1.MainRotor_MO	Run <i>n</i> AutoAdjust Main Rotor frequency override
FC.AA_1.SensRotor_MO	Run <i>n</i> AutoAdjust Sense Rotor frequency override
FC.FC1.RX_LIN_FUNC	Run <i>n</i> Linearization Function enable/disable
FC.FC1.RX_CSelect	Run <i>n</i> FPV calculatoin method (from FC.STATION_x_FPV_CALC)
FC.FC1.RX_UseBTUSat	Use BTU Saturated GC Value for Run n (from FC.STATION 1 UseBTUSat)
FC.FC1.RX_AGA8_GRMTHD	Run n AGA 8 Gross Method (from FC.STATION x GROSSMODE)
FC.FC1.RX_VCone_Type	Run n Vcone calculation (SG/MW)
FC.FC2.RX_FLOWEQN_SELECT	Run <i>n</i> AGA3 equation select (1985,1992,2012)
FC.RUN_2_SPSOURCE	Run <i>n</i> static pressure source
FC.R2_MVTID_SP	Run n MVT ID for static pressure
IO_1.R2_SP_INP_Units	Run n Static Pressure Units
FC.R2_SP_ZERO	Run n Static Pressure Zero
FC.R2_SP_SPAN	Run <i>n</i> Static Pressure Span
FC.FC2.RX_SP_MO	Static Pressure Manual Override for Run <i>n</i>
FC.FC2.RX_SP_BUF	Static Pressure Manual Override Value for Run <i>n</i>
FC.RUN_2_FTSOURCE	Run <i>n</i> temperature source
FC.R2_MVTID_FT	Run n MVT ID for temperature
IO_1.R2_FTEMP_INP_Units	Run <i>n</i> Flowing Temperature Units
FC.R2_FT_ZERO	Run <i>n</i> Flowing Temperature Zero
FC.R2_FT_SPAN	Run <i>n</i> Flowing Temperature Span
FC.FC2.RX_FTEMP_MO	Flowing Temperature Manual Override for Run <i>n</i>
FC.FC2.RX_FTEMP_BUF	Flowing Temperature Manual

Signal	Description
	Override Value for Run <i>n</i>
FC.RUN_2_DPSOURCE	Run <i>n</i> static pressure source
FC.R2_MVTID_DP	Run <i>n</i> MVT ID for differential pressure
IO_1.R2_DP_INP_Units	Run <i>n</i> Differential Pressure Units
IO_1.R2_DP_SPAN	Run n Differential Pressure Span
FC.FC2.RX_DP_MO	Differential Pressure Manual Override for Run <i>n</i>
FC.FC2.RX_DP_BUF	Differential Pressure Manual Override Value for Run <i>n</i>
FC.FC2.RX_TAP_LOC	Tap Location Up/DownStream for Run <i>n</i>
FC.FC2.RX_TAP_TYPE	Tap Type for Run <i>n</i>
FC.AA_2.MainRotor_MO	Run <i>n</i> AutoAdjust Main Rotor frequency override
FC.AA_2.SensRotor_MO	Run <i>n</i> AutoAdjust Sense Rotor frequency override
FC.FC2.RX_LIN_FUNC	Run <i>n</i> Linearization Function enable/disable
FC.FC2.RX_CSelect	Run <i>n</i> FPV calculatoin method (from FC.STATION_x_FPV_CALC)
FC.FC2.RX_UseBTUSat	Use BTU Saturated GC Value for Run <i>n</i> (from FC.STATION 2 UseBTUSat)
FC.FC2.RX_AGA8_GRMTHD	Run n AGA 8 Gross Method (from FC.STATION_x_GROSSMODE)
FC.FC2.RX_VCone_Type	Run <i>n</i> Vcone calculation (SG/MW)
FC.FC3.RX_FLOWEQN_SELECT	Run <i>n</i> AGA3 equation select (1985,1992,2012)
FC.RUN_3_SPSOURCE	Run <i>n</i> static pressure source
FC.R3_MVTID_SP	Run <i>n</i> MVT ID for static pressure
IO_1.R3_SP_INP_Units	Run n Static Pressure Units
FC.R3_SP_ZERO	Run <i>n</i> Static Pressure Zero
FC.R3_SP_SPAN	Run <i>n</i> Static Pressure Span
FC.FC3.RX_SP_MO	Static Pressure Manual Override for Run <i>n</i>
FC.FC3.RX_SP_BUF	Static Pressure Manual Override Value for Run <i>n</i>
FC.RUN_3_FTSOURCE	Run <i>n</i> temperature source
FC.R3_MVTID_FT	Run n MVT ID for temperature
IO_1.R3_FTEMP_INP_Units	Run <i>n</i> Flowing Temperature Units
FC.R3_FT_ZERO	Run <i>n</i> Flowing Temperature Zero
FC.R3_FT_SPAN	Run <i>n</i> Flowing Temperature Span
FC.FC3.RX_FTEMP_MO	Flowing Temperature Manual Override for Run <i>n</i>
FC.FC3.RX_FTEMP_BUF	Flowing Temperature Manual Override Value for Run <i>n</i>
FC.RUN_3_DPSOURCE	Run <i>n</i> static pressure source
FC.R3_MVTID_DP	Run <i>n</i> MVT ID for differential

Signal	Description
	pressure
IO_1.R3_DP_INP_Units	Run <i>n</i> Differential Pressure Units
IO_1.R3_DP_SPAN	Run <i>n</i> Differential Pressure Span
FC.FC3.RX_DP_MO	Differential Pressure Manual
50 500 DV DD DU5	Override for Run n
FC.FC3.RX_DP_BUF	Differential Pressure Manual Override Value for Run <i>n</i>
FC.FC3.RX_TAP_LOC	Tap Location Up/DownStream for
FC.FC3.RX_TAP_TYPE	Run <i>n</i> Tap Type for Run <i>n</i>
FC.AA 3.MainRotor_MO	Run <i>n</i> AutoAdjust Main Rotor
T G.AA_3.Mailil\Otol_MO	frequency override
FC.AA_3.SensRotor_MO	Run <i>n</i> AutoAdjust Sense Rotor frequency override
FC.FC3.RX_LIN_FUNC	Run <i>n</i> Linearization Function
FC.FC3.RX_CSelect	enable/disable Run <i>n</i> FPV calculatoin method
	(from
FO FOO DY III DTIIO I	FC.STATION_x_FPV_CALC)
FC.FC3.RX_UseBTUSat	Use BTU Saturated GC Value for Run <i>n</i> (from
	FC.STATION_3_UseBTUSat)
FC.FC3.RX_AGA8_GRMTHD	Run n AGA 8 Gross Method (from FC.STATION_x_GROSSMODE)
FC.FC3.RX_VCone_Type	Run <i>n</i> Vcone calculation (SG/MW)
FC.FC4.RX_FLOWEQN_SELECT	Run <i>n</i> AGA3 equation select (1985,1992,2012)
FC.RUN_4_SPSOURCE	Run n static pressure source
FC.R4_MVTID_SP	Run n MVT ID for static pressure
IO_1.R4_SP_INP_Units	Run n Static Pressure Units
FC.R4_SP_ZERO	Run n Static Pressure Zero
FC.R4_SP_SPAN	Run n Static Pressure Span
FC.FC4.RX_SP_MO	Static Pressure Manual Override for Run <i>n</i>
FC.FC4.RX_SP_BUF	Static Pressure Manual Override Value for Run <i>n</i>
FC.RUN 4 FTSOURCE	Run <i>n</i> temperature source
FC.R4 MVTID FT	Run <i>n</i> MVT ID for temperature
IO 1.R4 FTEMP INP Units	Run <i>n</i> Flowing Temperature Units
FC.R4_FT_ZERO	Run <i>n</i> Flowing Temperature Zero
FC.R4_FT_SPAN	Run <i>n</i> Flowing Temperature Span
FC.FC4.RX_FTEMP_MO	Flowing Temperature Manual
FC.FC4.RX_FTEMP_BUF	Override for Run <i>n</i> Flowing Temperature Manual Override Value for Run <i>n</i>
FC.RUN_4_DPSOURCE	Run <i>n</i> static pressure source
FC.R4_MVTID_DP	Run <i>n</i> MVT ID for differential pressure
IO_1.R4_DP_INP_Units	Run n Differential Pressure Units
IO_1.R4_DP_SPAN	Run <i>n</i> Differential Pressure Span

Signal	Description
FC.FC4.RX_DP_MO	Differential Pressure Manual
	Override for Run n
FC.FC4.RX_DP_BUF	Differential Pressure Manual
50 504 BY TAB 100	Override Value for Run n
FC.FC4.RX_TAP_LOC	Tap Location Up/DownStream for Run <i>n</i>
FC.FC4.RX_TAP_TYPE	Tap Type for Run n
FC.AA_4.MainRotor_MO	Run <i>n</i> AutoAdjust Main Rotor
FC.AA 4.SensRotor MO	frequency override Run <i>n</i> AutoAdjust Sense Rotor
FC.AA_4.3erisKotor_iviO	frequency override
FC.FC4.RX_LIN_FUNC	Run <i>n</i> Linearization Function
FC.FC4.RX_CSelect	enable/disable Run <i>n</i> FPV calculatoin method
TO. O4.IVA_OGEREC	(from
EO EO A DY LL. DELIG. A	FC.STATION_x_FPV_CALC)
FC.FC4.RX_UseBTUSat	Use BTU Saturated GC Value for
	Run <i>n</i> (from FC.STATION_4_UseBTUSat)
FC.FC4.RX_AGA8_GRMTHD	Run n AGA 8 Gross Method (from
50 504 BY 1/0 T	FC.STATION_x_GROSSMODE)
FC.FC4.RX_VCone_Type	Run <i>n</i> Vcone calculation (SG/MW)
FC.FC5.RX_FLOWEQN_SELECT	Run <i>n</i> AGA3 equation select (1985,1992,2012)
FC.RUN_5_SPSOURCE	Run <i>n</i> static pressure source
FC.R5_MVTID_SP	Run n MVT ID for static pressure
IO_1.R5_SP_INP_Units	Run n Static Pressure Units
FC.R5_SP_ZERO	Run n Static Pressure Zero
FC.R5_SP_SPAN	Run <i>n</i> Static Pressure Span
FC.FC5.RX_SP_MO	Static Pressure Manual Override for Run <i>n</i>
FC.FC5.RX_SP_BUF	Static Pressure Manual Override
	Value for Run <i>n</i>
FC.RUN_5_FTSOURCE	Run <i>n</i> temperature source
FC.R5_MVTID_FT	Run <i>n</i> MVT ID for temperature
IO_1.R5_FTEMP_INP_Units	Run <i>n</i> Flowing Temperature Units
FC.R5_FT_ZERO	Run <i>n</i> Flowing Temperature Zero
FC.R5_FT_SPAN	Run <i>n</i> Flowing Temperature Span
FC.FC5.RX_FTEMP_MO	Flowing Temperature Manual Override for Run n
FC.FC5.RX_FTEMP_BUF	Flowing Temperature Manual Override Value for Run n
FC.RUN_5_DPSOURCE	Run <i>n</i> static pressure source
FC.R5_MVTID_DP	Run <i>n</i> MVT ID for differential pressure
IO_1.R5_DP_INP_Units	Run n Differential Pressure Units
IO_1.R5_DP_SPAN	Run <i>n</i> Differential Pressure Span
FC.FC5.RX_DP_MO	Differential Pressure Manual Override for Run n
FC.FC5.RX DP BUF	Differential Pressure Manual
	Override Value for Run n

Signal	Description
FC.FC5.RX_TAP_LOC	Tap Location Up/DownStream for
FC.FC5.RX_TAP_TYPE	Run n Tap Type for Run n
FC.AA 5.MainRotor MO	Run <i>n</i> AutoAdjust Main Rotor
	frequency override
FC.AA_5.SensRotor_MO	Run <i>n</i> AutoAdjust Sense Rotor frequency override
FC.FC5.RX_LIN_FUNC	Run <i>n</i> Linearization Function enable/disable
FC.FC5.RX_CSelect	Run <i>n</i> FPV calculatoin method (from FC.STATION x FPV CALC)
FC.FC5.RX_UseBTUSat	Use BTU Saturated GC Value for Run n (from FC.STATION_5_UseBTUSat)
FC.FC5.RX_AGA8_GRMTHD	Run n AGA 8 Gross Method (from FC.STATION_x_GROSSMODE)
FC.FC5.RX_VCone_Type	Run n Vcone calculation (SG/MW)
FC.FC6.RX_FLOWEQN_SELECT	Run <i>n</i> AGA3 equation select (1985,1992,2012)
FC.RUN_6_SPSOURCE	Run n static pressure source
FC.R6_MVTID_SP	Run n MVT ID for static pressure
IO_1.R6_SP_INP_Units	Run n Static Pressure Units
FC.R6_SP_ZERO	Run n Static Pressure Zero
FC.R6_SP_SPAN	Run n Static Pressure Span
FC.FC6.RX_SP_MO	Static Pressure Manual Override for Run n
FC.FC6.RX_SP_BUF	Static Pressure Manual Override Value for Run n
FC.RUN_6_FTSOURCE	Run <i>n</i> temperature source
FC.R6_MVTID_FT	Run n MVT ID for temperature
IO_1.R6_FTEMP_INP_Units	Run <i>n</i> Flowing Temperature Units
FC.R6_FT_ZERO	Run <i>n</i> Flowing Temperature Zero
FC.R6_FT_SPAN	Run <i>n</i> Flowing Temperature Span
FC.FC6.RX_FTEMP_MO	Flowing Temperature Manual Override for Run n
FC.FC6.RX_FTEMP_BUF	Flowing Temperature Manual Override Value for Run n
FC.RUN_6_DPSOURCE	Run <i>n</i> static pressure source
FC.R6_MVTID_DP	Run <i>n</i> MVT ID for differential pressure
IO_1.R6_DP_INP_Units	Run <i>n</i> Differential Pressure Units
IO_1.R6_DP_SPAN	Run <i>n</i> Differential Pressure Span
FC.FC6.RX_DP_MO	Differential Pressure Manual Override for Run <i>n</i>
FC.FC6.RX_DP_BUF	Differential Pressure Manual Override Value for Run n
FC.FC6.RX_TAP_LOC	Tap Location Up/DownStream for Run <i>n</i>
FC.FC6.RX_TAP_TYPE	Tap Type for Run <i>n</i>

Signal	Description	
FC.AA_6.MainRotor_MO	Run <i>n</i> AutoAdjust Main Rotor frequency override	
FC.AA_6.SensRotor_MO	Run <i>n</i> AutoAdjust Sense Rotor frequency override	
FC.FC6.RX_LIN_FUNC	Run <i>n</i> Linearization Function enable/disable	
FC.FC6.RX_CSelect	Run <i>n</i> FPV calculatoin method (from FC.STATION_x_FPV_CALC)	
FC.FC6.RX_UseBTUSat	Use BTU Saturated GC Value for Run <i>n</i> (from FC.STATION 6 UseBTUSat)	
FC.FC6.RX_AGA8_GRMTHD	Run n AGA 8 Gross Method (from FC.STATION x GROSSMODE)	
FC.FC6.RX_VCone_Type	Run n Vcone calculation (SG/MW)	
FC.R2_MAINT_MODE	Run Configuration	
FC.R3_MAINT_MODE	Run Configuration	
FC.R4_MAINT_MODE	Run Configuration	
FC.R5_MAINT_MODE	Run Configuration	
FC.R6_MAINT_MODE	Run Configuration	
FC.R1_HSCID	Run Configuration	
FC.R2_HSCID	Run Configuration	
FC.R3_HSCID	Run Configuration	
FC.R4_HSCID	Run Configuration	
FC.R5_HSCID	Run Configuration	
FC.R6_HSCID	Run Configuration	
MVT.MVT_PVINT	Poll interval for Process variables from the MVT, in millisecond	
MVT.MVT_DIAGINT	Poll interval for Diagnostics data from the MVT, in millisecond	
MVT.MVT_TIMEOUT	Communication Timeout for MVT's	
MVT.MVT_1_PORT	CWM Master Port connected to MVT <i>n</i>	
MVT.MVT_1_ADDRESS	Address of MVT n	
MVT.MVT_1_MRTYPE	Transmitter Type of MVT <i>n</i> 0=None 1=DP/P/T 2=GP/T 3=T	
MVT.MVT_1_FB.MB_PVS.REGSET	Register Set to be polled from MVT - FALSE or 0 = 40000, TRUE or 1 = 7000	
MVT.MVT_2_PORT	CWM Master Port connected to MVT n	
MVT.MVT_2_ADDRESS	Address of MVT n	
MVT.MVT_2_MRTYPE	Transmitter Type of MVT <i>n</i> 0=None 1=DP/P/T 2=GP/T 3=T	
MVT.MVT_2_FB.MB_PVS.REGSET	Register Set to be polled from MVT - FALSE or 0 = 40000, TRUE or 1 = 7000	
MVT.MVT_3_PORT	CWM Master Port connected to MVT n	
MVT.MVT_3_ADDRESS	Address of MVT n	

Signal	Description	
MVT.MVT_3_MRTYPE	Transmitter Type of MVT <i>n</i> 0=None 1=DP/P/T 2=GP/T 3=T	
MVT.MVT_3_FB.MB_PVS.REGSET	Register Set to be polled from MVT - FALSE or 0 = 40000, TRU or 1 = 7000	
MVT.MVT_4_PORT	CWM Master Port connected to MVT n	
MVT.MVT_4_ADDRESS	Address of MVT n	
MVT.MVT_4_MRTYPE	Transmitter Type of MVT <i>n</i> 0=None 1=DP/P/T 2=GP/T 3=T	
MVT.MVT_4_FB.MB_PVS.REGSET	Register Set to be polled from MVT - FALSE or 0 = 40000, TRUE or 1 = 7000	
MVT.MVT_5_PORT	CWM Master Port connected to MVT n	
MVT.MVT_5_ADDRESS	Address of MVT n	
MVT.MVT_5_MRTYPE	Transmitter Type of MVT n	
MVT.MVT_5_FB.MB_PVS.REGSET	0=None 1=DP/P/T 2=GP/T 3=T Register Set to be polled from MVT - FALSE or 0 = 40000, TRUE or 1 = 7000	
MVT.MVT_6_PORT	CWM Master Port connected to MVT n	
MVT.MVT_6_ADDRESS	Address of MVT n	
MVT.MVT_6_MRTYPE	Transmitter Type of MVT <i>n</i> 0=None 1=DP/P/T 2=GP/T 3=T	
MVT.MVT_6_FB.MB_PVS.REGSET	Register Set to be polled from MVT - FALSE or 0 = 40000, TRUE or 1 = 7000	
MVT.MVT_7_PORT	CWM Master Port connected to MVT n	
MVT.MVT_7_ADDRESS	Address of MVT n	
MVT.MVT_7_MRTYPE	Transmitter Type of MVT <i>n</i> 0=None 1=DP/P/T 2=GP/T 3=T	
MVT.MVT_7_FB.MB_PVS.REGSET	Register Set to be polled from MVT - FALSE or 0 = 40000, TRUE or 1 = 7000	
MVT.MVT_8_PORT	CWM Master Port connected to MVT n	
MVT.MVT_8_ADDRESS	Address of MVT n	
MVT.MVT_8_MRTYPE	Transmitter Type of MVT <i>n</i> 0=None 1=DP/P/T 2=GP/T 3=T	
MVT.MVT_8_FB.MB_PVS.REGSET	Register Set to be polled from MVT - FALSE or 0 = 40000, TRUE or 1 = 7000	
MVT.MVT_9_PORT	CWM Master Port connected to MVT <i>n</i>	
MVT.MVT_9_ADDRESS	Address of MVT n	
MVT.MVT_9_MRTYPE	Transmitter Type of MVT <i>n</i> 0=None 1=DP/P/T 2=GP/T 3=T	
MVT.MVT_9_FB.MB_PVS.REGSET	Register Set to be polled from MVT - FALSE or 0 = 40000, TRUE or 1 = 7000	
MVT.MVT_10_PORT	CWM Master Port connected to	

Signal	Description	
	MVT n	
MVT.MVT_10_ADDRESS	Address of MVT n	
MVT.MVT_10_MRTYPE	Transmitter Type of MVT n 0=None 1=DP/P/T 2=GP/T 3=T	
MVT.MVT_10_FB.MB_PVS.REGSET	Register Set to be polled from MVT - FALSE or 0 = 40000, TRU or 1 = 7000	
MVT.MVT_11_PORT	CWM Master Port connected to MVT n	
MVT.MVT_11_ADDRESS	Address of MVT n	
MVT.MVT_11_MRTYPE	Transmitter Type of MVT <i>n</i> 0=None 1=DP/P/T 2=GP/T 3=T	
MVT.MVT_11_FB.MB_PVS.REGSET	Register Set to be polled from MVT - FALSE or 0 = 40000, TRUE or 1 = 7000	
MVT.MVT_12_PORT	CWM Master Port connected to MVT n	
MVT.MVT_12_ADDRESS	Address of MVT n	
MVT.MVT_12_MRTYPE	Transmitter Type of MVT <i>n</i> 0=None 1=DP/P/T 2=GP/T 3=T	
MVT.MVT_12_FB.MB_PVS.REGSET	Register Set to be polled from MVT - FALSE or 0 = 40000, TRUE or 1 = 7000	
MVT.MVT_1_ENABLE	Enable Communication for MVT n	
MVT.MVT_2_ENABLE	Enable Communication for MVT n	
MVT.MVT_3_ENABLE	Enable Communication for MVT n	
MVT.MVT_4_ENABLE	Enable Communication for MVT n	
MVT.MVT_5_ENABLE	Enable Communication for MVT n	
MVT.MVT_6_ENABLE	Enable Communication for MVT n	
MVT.MVT_7_ENABLE	Enable Communication for MVT n	
MVT.MVT_8_ENABLE	Enable Communication for MVT n	
MVT.MVT_9_ENABLE	Enable Communication for MVT n	
MVT.MVT_10_ENABLE	Enable Communication for MVT n	
MVT.MVT_11_ENABLE	Enable Communication for MVT n	
MVT.MVT_12_ENABLE	Enable Communication for MVT <i>n</i>	
HRT.HART_1_Enable	Enable Communication for HART n	
HRT.HART_1_TagName	Tag Name of HART n	
HRT.HART_1_CommMode	Communications Mode of HART <i>n</i> 1 = Point to Point communications through I/O board.2 = Multi-drop communications through I/O board.3 = Point to Point communications through serial COM Port.4 = Multi-drop communications through serial COM Port.	
HRT.HART_1_Device	I/O Board Slot number or COM Port number of HART <i>n</i>	
HRT.HART_1_Channel	channel number within the I/O	

Signal	Description		
	board of HART n		
HRT.HART_1_Retries	Number of Retries of HART n		
HRT.HART_1_Type	Transmitter Type of HART <i>n</i> 0=None 1=DP/P/T 2=GP/T 3=T		
HRT.HART_2_Enable	Enable Communication for HART		
HRT.HART_2_TagName	Tag Name of HART n		
HRT.HART_2_CommMode	Communications Mode of HART <i>n</i> 1 = Point to Point communications through I/O board.2 = Multi-drop communications through I/O board.3 = Point to Point communications through serial COM Port.4 = Multi-drop communications through serial COM Port.		
HRT.HART_2_Device	I/O Board Slot number or COM Port number of HART <i>n</i>		
HRT.HART_2_Channel	channel number within the I/O board of HART <i>n</i>		
HRT.HART_2_Retries	Number of Retries of HART <i>n</i>		
HRT.HART_2_Type	Transmitter Type of HART <i>n</i> 0=None 1=DP/P/T 2=GP/T 3=T		
HRT.HART_3_Enable	Enable Communication for HART n		
HRT.HART_3_TagName	Tag Name of HART <i>n</i>		
HRT.HART_3_CommMode	Communications Mode of HART <i>n</i> 1 = Point to Point communications through I/O board.2 = Multi-drop communications through I/O board.3 = Point to Point communications through serial COM Port.4 = Multi-drop communications through serial COM Port.		
HRT.HART_3_Device	I/O Board Slot number or COM Port number of HART <i>n</i>		
HRT.HART_3_Channel	channel number within the I/O board of HART <i>n</i>		
HRT.HART_3_Retries	Number of Retries of HART n		
HRT.HART_3_Type	Transmitter Type of HART <i>n</i> 0=None 1=DP/P/T 2=GP/T 3=T		
HRT.HART_4_Enable	Enable Communication for HART n		
HRT.HART_4_TagName	Tag Name of HART <i>n</i>		
HRT.HART_4_CommMode	Communications Mode of HART <i>n</i> 1 = Point to Point communications through I/O board.2 = Multi-drop communications through I/O board.3 = Point to Point communications through serial COM Port.4 = Multi-drop communications through serial COM Port.		

Signal	Description		
HRT.HART_4_Device	I/O Board Slot number or COM Port number of HART <i>n</i>		
HRT.HART_4_Channel	channel number within the I/O board of HART <i>n</i>		
HRT.HART_4_Retries	Number of Retries of HART n		
HRT.HART_4_Type	Transmitter Type of HART <i>n</i> 0=None 1=DP/P/T 2=GP/T 3=T		
HRT.HART_5_Enable	Enable Communication for HART n		
HRT.HART_5_TagName	Tag Name of HART <i>n</i>		
HRT.HART_5_CommMode	Communications Mode of HART <i>n</i> 1 = Point to Point communications through I/O board.2 = Multi-drop communications through I/O board.3 = Point to Point communications through serial COM Port.4 = Multi-drop communications through serial COM Port.		
HRT.HART_5_Device	I/O Board Slot number or COM Port number of HART n		
HRT.HART_5_Channel	channel number within the I/O board of HART <i>n</i>		
HRT.HART_5_Retries	Number of Retries of HART n		
HRT.HART_5_Type	Transmitter Type of HART <i>n</i> 0=None 1=DP/P/T 2=GP/T 3=T		
HRT.HART_6_Enable	Enable Communication for HART n		
HRT.HART_6_TagName	Tag Name of HART n		
HRT.HART_6_CommMode	Communications Mode of HART <i>n</i> 1 = Point to Point communications through I/O board.2 = Multi-drop communications through I/O board.3 = Point to Point communications through serial COM Port.4 = Multi-drop communications through serial COM Port.		
HRT.HART_6_Device	I/O Board Slot number or COM Port number of HART <i>n</i>		
HRT.HART_6_Channel	channel number within the I/O board of HART <i>n</i>		
HRT.HART_6_Retries	Number of Retries of HART n		
HRT.HART_6_Type	Transmitter Type of HART <i>n</i> 0=None 1=DP/P/T 2=GP/T 3=T		
HRT.HART_7_Enable	Enable Communication for HART n		
HRT.HART_7_TagName	Tag Name of HART <i>n</i>		
HRT.HART_7_CommMode	Communications Mode of HART <i>n</i> 1 = Point to Point communications through I/O board.2 = Multi-drop communications through I/O board.3 = Point to Point communications through serial		

Signal	Description		
	COM Port.4 = Multi-drop communications through serial COM Port.		
HRT.HART_7_Device	I/O Board Slot number or COM Port number of HART n		
HRT.HART_7_Channel	channel number within the I/O board of HART <i>n</i>		
HRT.HART_7_Retries	Number of Retries of HART n		
HRT.HART_7_Type	Transmitter Type of HART <i>n</i> 0=None 1=DP/P/T 2=GP/T 3=T		
HRT.HART_8_Enable	Enable Communication for HART n		
HRT.HART_8_TagName	Tag Name of HART <i>n</i>		
HRT.HART_8_CommMode	Communications Mode of HART <i>n</i> 1 = Point to Point communications through I/O board.2 = Multi-drop communications through I/O board.3 = Point to Point communications through serial COM Port.4 = Multi-drop communications through serial COM Port.		
HRT.HART_8_Device	I/O Board Slot number or COM Port number of HART n		
HRT.HART_8_Channel	channel number within the I/O board of HART n		
HRT.HART_8_Retries	Number of Retries of HART n		
HRT.HART_8_Type	Transmitter Type of HART <i>n</i> 0=None 1=DP/P/T 2=GP/T 3=T		
HRT.HART_9_Enable	Enable Communication for HART n		
HRT.HART_9_TagName	Tag Name of HART <i>n</i>		
HRT.HART_9_CommMode	Communications Mode of HART <i>n</i> 1 = Point to Point communications through I/O board.2 = Multi-drop communications through I/O board.3 = Point to Point communications through serial COM Port.4 = Multi-drop communications through serial COM Port.		
HRT.HART_9_Device	I/O Board Slot number or COM Port number of HART <i>n</i>		
HRT.HART_9_Channel	channel number within the I/O board of HART <i>n</i>		
HRT.HART_9_Retries	Number of Retries of HART n		
HRT.HART_9_Type	Transmitter Type of HART <i>n</i> 0=None 1=DP/P/T 2=GP/T 3=T		
HRT.HART_10_Enable	Enable Communication for HART n		
HRT.HART_10_TagName	Tag Name of HART <i>n</i>		
HRT.HART_10_CommMode	Communications Mode of HART <i>n</i> 1 = Point to Point communications through I/O board.2 = Multi-drop		

Signal	Description	
	communications through I/O board.3 = Point to Point communications through serial COM Port.4 = Multi-drop communications through serial COM Port.	
HRT.HART_10_Device	I/O Board Slot number or COM Port number of HART <i>n</i>	
HRT.HART_10_Channel	channel number within the I/O board of HART <i>n</i>	
HRT.HART_10_Retries	Number of Retries of HART <i>n</i>	
HRT.HART_10_Type	Transmitter Type of HART <i>n</i> 0=None 1=DP/P/T 2=GP/T 3=T	
HRT.HART_11_Enable	Enable Communication for HART n	
HRT.HART_11_TagName	Tag Name of HART <i>n</i>	
HRT.HART_11_CommMode	Communications Mode of HART <i>n</i> 1 = Point to Point communications through I/O board.2 = Multi-drop communications through I/O board.3 = Point to Point communications through serial COM Port.4 = Multi-drop communications through serial COM Port.	
HRT.HART_11_Device	I/O Board Slot number or COM Port number of HART <i>n</i>	
HRT.HART_11_Channel	channel number within the I/O board of HART <i>n</i>	
HRT.HART_11_Retries	Number of Retries of HART n	
HRT.HART_11_Type	Transmitter Type of HART <i>n</i> 0=None 1=DP/P/T 2=GP/T 3=T	
HRT.HART_12_Enable	Enable Communication for HART	
HRT.HART_12_TagName	Tag Name of HART <i>n</i>	
HRT.HART_12_CommMode	Communications Mode of HART <i>n</i> 1 = Point to Point communications through I/O board.2 = Multi-drop communications through I/O board.3 = Point to Point communications through serial COM Port.4 = Multi-drop communications through serial COM Port.	
HRT.HART_12_Device	I/O Board Slot number or COM Port number of HART <i>n</i>	
HRT.HART_12_Channel	channel number within the I/O board of HART <i>n</i>	
HRT.HART_12_Retries	Number of Retries of HART n	
HRT.HART_12_Type	Transmitter Type of HART <i>n</i> 0=None 1=DP/P/T 2=GP/T 3=T	
HRT.HART_13_Enable	Enable Communication for HART n	
HRT.HART_13_TagName	Tag Name of HART <i>n</i>	

Signal	Description	
HRT.HART_13_CommMode	Communications Mode of HART <i>n</i> 1 = Point to Point communications through I/O board.2 = Multi-drop communications through I/O board.3 = Point to Point communications through serial COM Port.4 = Multi-drop communications through serial COM Port.	
HRT.HART_13_Device	I/O Board Slot number or COM Port number of HART n	
HRT.HART_13_Channel	channel number within the I/O board of HART <i>n</i>	
HRT.HART_13_Retries	Number of Retries of HART n	
HRT.HART_13_Type	Transmitter Type of HART <i>n</i> 0=None 1=DP/P/T 2=GP/T 3=T	
HRT.HART_14_Enable	Enable Communication for HART n	
HRT.HART_14_TagName	Tag Name of HART n	
HRT.HART_14_CommMode	Communications Mode of HART n 1 = Point to Point communications through I/O board.2 = Multi-drop communications through I/O board.3 = Point to Point communications through serial COM Port.4 = Multi-drop communications through serial COM Port.	
HRT.HART_14_Device	I/O Board Slot number or COM Port number of HART n	
HRT.HART_14_Channel	channel number within the I/O board of HART <i>n</i>	
HRT.HART_14_Retries	Number of Retries of HART n	
HRT.HART_14_Type	Transmitter Type of HART n 0=None 1=DP/P/T 2=GP/T 3=T	
HRT.HART_15_Enable	Enable Communication for HART n	
HRT.HART_15_TagName	Tag Name of HART <i>n</i>	
HRT.HART_15_CommMode	Communications Mode of HART <i>n</i> 1 = Point to Point communications through I/O board.2 = Multi-drop communications through I/O board.3 = Point to Point communications through serial COM Port.4 = Multi-drop communications through serial COM Port.	
HRT.HART_15_Device	I/O Board Slot number or COM Port number of HART <i>n</i>	
HRT.HART_15_Channel	channel number within the I/O board of HART <i>n</i>	
HRT.HART_15_Retries	Number of Retries of HART <i>n</i>	
HRT.HART_15_Type	Transmitter Type of HART <i>n</i> 0=None 1=DP/P/T 2=GP/T 3=T	

Signal	Description	
HRT.HART_16_Enable	Enable Communication for HART n	
HRT.HART_16_TagName	Tag Name of HART n	
HRT.HART_16_CommMode	Communications Mode of HART <i>n</i> 1 = Point to Point communications through I/O board.2 = Multi-drop communications through I/O board.3 = Point to Point communications through serial COM Port.4 = Multi-drop communications through serial COM Port.	
HRT.HART_16_Device HRT.HART_16_Channel	I/O Board Slot number or COM Port number of HART n channel number within the I/O	
	board of HART n	
HRT.HART_16_Retries	Number of Retries of HART n	
HRT.HART_16_Type	Transmitter Type of HART <i>n</i> 0=None 1=DP/P/T 2=GP/T 3=T	
HRT.HART_17_Enable	Enable Communication for HART n	
HRT.HART_17_TagName	Tag Name of HART <i>n</i>	
HRT.HART_17_CommMode	1 = Point to Point communications through I/O board.2 = Multi-drop communications through I/O board.3 = Point to Point communications through serial COM Port.4 = Multi-drop communications through serial COM Port.	
HRT.HART_17_Device	I/O Board Slot number or COM Port number of HART n	
HRT.HART_17_Channel	channel number within the I/O board of HART <i>n</i>	
HRT.HART_17_Retries	Number of Retries of HART n	
HRT.HART_17_Type	Transmitter Type of HART <i>n</i> 0=None 1=DP/P/T 2=GP/T 3=T	
HRT.HART_18_Enable	Enable Communication for HART n	
HRT.HART_18_TagName	Tag Name of HART <i>n</i>	
HRT.HART_18_CommMode	Communications Mode of HART <i>n</i> 1 = Point to Point communications through I/O board.2 = Multi-drop communications through I/O board.3 = Point to Point communications through serial COM Port.4 = Multi-drop communications through serial COM Port.	
HRT.HART_18_Device	I/O Board Slot number or COM Port number of HART n	
HRT.HART_18_Channel	channel number within the I/O board of HART <i>n</i>	

Signal	Description
HRT.HART_18_Retries	Number of Retries of HART n
HRT.HART_18_Type	Transmitter Type of HART <i>n</i> 0=None 1=DP/P/T 2=GP/T 3=T

Audit Log Interpreter

The Audit logs in the ControlWave Micro store VTEs, legally relevant and non-relevant parameter changes, HMI events, and System events. Use the AuditLogInterpreter.exe utility to create a CSV file that shows only the changes to VTE signals, and their descriptions.

- **1.** Attach a ControlWave Micro serial line to the local communication port.
- **2.** Retrieve the audit data:
 - a. Go to the Historical tab.
 - b. Select Collect Local Logs.
 - **c.** Specify the desired path to save the Audit file.
 - **d.** Select **Audit** from the list.
 - e. Click Start Collect and wait for it to finish.
 - f. Click Convert to CSV (this saves the collected Audit data to a CSV format in the folder specified by Storage Folder.)
- **3.** Return to the main menu of TechView.
- **4.** Right click on the RTU.
- **5.** Select the **AuditLogInterpreter.exe** application from the dropdown menu.
- **6.** Click the browse button to find the previously saved CSV file (it will be named in the following format "<Site Name> Aud.csv").
- **7.** There will be two new files created in the same location of the original CSV file.

The two new files have the same name as the original CSV with the addition of the suffixes "_New" and "_VTEs" prior to the .CSV extension. The file with the "_New" will be exactly the same as the original Audit CSV file except its ordering puts the newest events first. The file with "VTEs" in the name lists any VTEs that have occurred and remain in the audit trail. The newest VTEs are at the top of the list. Any new VTE triggered after the last sealing of the site requires notification to Measurement Canada so they can verify and re-seal it.

Issued: May-2016

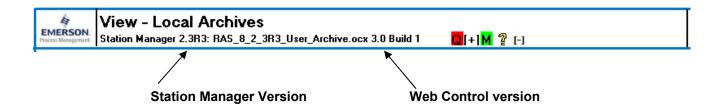
Appendix E - Troubleshooting

Determining Versions of Station Manager and Web Page Controls

If you need to call for technical support one of the first things the technical support person needs to know is the version of Station Manager you are running. This is especially true if you have a beta (test and evaluation) version,

To determine the version of Station Manager, click on the yellow question mark at the top of any page containing web controls. You'll see the Station Manager version, along with the version and build number of the web page control for that page.





Error Codes

Error Code(s)	Possible Remedy	
-8001 Mode not supported -8002 Invalid mode for serial port	These codes indicate that the serial port is not configured properly in the Flash Configuration Profile.	
	 Verify that the MODE for the serial port connected to the gas chromatograph is configured as a MODBUS Master. 	
-8006 Invalid Slave address	This code indicates that the Addr setting is incorrect. typically, this means it is less than 1 or greater than 255	
	 Set the "Addr" value to the proper local slave address of the gas chromatograph, which should be a number from 1 to 255. 	
-8017 Invalid response received from slave	This code indicates that the gas chromatograph is responding with data, however, the response message cannot be interpreted properly.	

- For a serial connection, verify that the data bits, stop bits, and parity are configured to match the settings on the chromatograph.
- For an RS-485 connection, verify that the "Ignore Echo" setting is set to TRUE. Verify that terminating and biasing resistors are set properly.

-8018 Timeout waiting for response from slave.

- Verify the gas chromatograph is turned on.
- Verify that the communications cables between the-Station Manager controller and the gas chromatograph are wired correctly and connected at both ends.
- If this is an IP (Ethernet connection), verify that both the gas chromatograph and the controller can be pinged at the IP addresses assigned to them.
- Verify the gas chromatograph supports the MODBUS Slave protocol.
- Verify that the baud rate, data bits, stop bits, and parity settings on the serial port of the controller match the settings on the gas chromatograph.

-8020 Communication Port failure.

The following message indicates that no data is being received from the gas chromatograph

- Verify the communication port is physically installed on the Station Manager controller.
- Replace the CPU or Communications Expansion Card with a known good card. If the same error is indicated, replace the ControlWave Micro chassis with a known good chassis.

E-2 Troubleshooting Issued: February 2023

Appendix M – Modbus Register Maps

These tables show the correspondence between Modbus registers and the variables in the Station Manager application.

Table M-1. Modbus Coil Map – BOOL Variables

Coil#	Variable	Description	Off State	On State
1001	MVT.MVT_1_ENABLE	MVT 1 - Comms Enabled	Disabled	Enabled
1002	MVT.MVT_2_ENABLE	MVT 2 - Comms Enabled	Disabled	Enabled
1003	MVT.MVT_3_ENABLE	MVT 3 - Comms Enabled	Disabled	Enabled
1004	MVT.MVT_4_ENABLE	MVT 4 - Comms Enabled	Disabled	Enabled
1005	MVT.MVT_5_ENABLE	MVT 5 - Comms Enabled	Disabled	Enabled
1006	MVT.MVT_8_ENABLE	MVT 6 - Comms Enabled	Disabled	Enabled
1007	MVT.MVT_7_ENABLE	MVT 7 - Comms Enabled	Disabled	Enabled
1008	MVT.MVT_8_ENABLE	MVT 8 - Comms Enabled	Disabled	Enabled
1009	MVT.MVT_9_ENABLE	MVT 9 - Comms Enabled	Disabled	Enabled
1010	MVT.MVT_10_ENABLE	MVT 10 - Comms Enabled	Disabled	Enabled
1011	MVT.MVT_11_ENABLE	MVT 11 - Comms Enabled	Disabled	Enabled
1012	MVT.MVT_12_ENABLE	MVT 12 - Comms Enabled	Disabled	Enabled
1013	FC.FC1.RX_SP_MO	Run 1 - Static Pressure Manual Override	Live	Override
1014	FC.FC1.RX_FTEMP_MO	Run 1 - Flowing Temperature Manual Override	Live	Override
1015	FC.FC1.RX_DP_MO	Run 1 - Differential Pressure Manual Override	Live	Override
1016	FC.R1_MAINT_MODE	Run 1 - Maintenance Mode	Normal	Maintenance
1017	FC.FC1.RX_TAP_LOC	Run 1 - Tap Location	Downstream	Upstream
1018	FC.FC1.RX_KFACTOR_TYPE	Run 1 - K Factor Type	CuFT/Pulse	Pulse/CuFT
1019	FC.FC1.RX_RATE_ALARM_ENABLE	Run 1 - Flow Rate Alarm Enable	Disabled	Enabled
1020	FC.FC1.RX_DP_INP_ALARM_ENABLE	Run 1 - Differential Input Alarm Enable	Disabled	Enabled
1021	FC.FC1.RX_SP_INP_ALARM_ENABLE	Run 1 - Static Pressure Alarm Enable	Disabled	Enabled
1022	FC.FC1.RX_FTEMP_ALARM_ENABLE	Run 1 - Flowing Temperature Alarm Enable	Disabled	Enabled
1023	FC.FC1.RX_BETA_ALARM_ENABLE	Run 1 - Beta Ratio Alarm Enable	Disabled	Enabled
1024	FC.FC1.RX_SOS_ALRM_ENABLE	Run 1 - Speed of Sound Alarm Enable	Disabled	Enabled
1025	FC.FC2.RX_SP_MO	Run 2 - Static Pressure Manual Override	Live	Override
1026	FC.FC2.RX_FTEMP_MO	Run 2 - Flowing Temperature Manual Override	Live	Override
1027	FC.FC2.RX_DP_MO	Run 2 - Differential Pressure Manual Override	Live	Override
1028	FC.R2_MAINT_MODE	Run 2 - Maintenance Mode	Normal	Maintenance
1029	FC.FC2.RX_TAP_LOC	Run 2 - Tap Location	Downstream	Upstream
1030	FC.FC2.RX_KFACTOR_TYPE	Run 2 - K Factor Type	CuFT/Pulse	Pulse/CuFT
1031	FC.FC2.RX_RATE_ALARM_ENABLE	Run 2 - Flow Rate Alarm Enable	Disabled	Enabled
1032	FC.FC2.RX_DP_INP_ALARM_ENABLE	Run 2 - Differential Input Alarm Enable	Disabled	Enabled
1033	FC.FC2.RX_SP_INP_ALARM_ENABLE	Run 2 - Static Pressure Alarm Enable	Disabled	Enabled
1034	FC.FC2.RX_FTEMP_ALARM_ENABLE	Run 2 - Flowing Temperature Alarm Enable	Disabled	Enabled
1035	FC.FC2.RX_BETA_ALARM_ENABLE	Run 2 - Beta Ratio Alarm Enable	Disabled	Enabled
1036	FC.FC2.RX_SOS_ALRM_ENABLE	Run 2 - Speed of Sound Alarm Enable	Disabled	Enabled
1037	FC.FC3.RX_SP_MO	Run 3 - Static Pressure Manual Override	Live	Override
1038	FC.FC3.RX_FTEMP_MO	Run 3 - Flowing Temperature Manual Override	Live	Override
1039	FC.FC3.RX_DP_MO	Run 3 - Differential Pressure Manual Override	Live	Override
1040	FC.R3_MAINT_MODE	Run 3 - Maintenance Mode	Normal	Maintenance
1041	FC.FC3.RX_TAP_LOC	Run 3 - Tap Location	Downstream	Upstream

Issued: February 2023 Modbus Register Maps M-1

FC.FC3.RX KFACTOR TYPE	Coil#	Variable	Description	Off State	On State
FC.FC3.RX ARTE ALARM ENABLE Run 3 - Differential input Alarm Enable Disabled Enabled			•		Pulse/CuFT
FC.FC3.RX DP INP ALARM ENABLE Run 3 - Differential Input Alarm Enable Disabled Enabled FC.FC3.RX SP. INP ALARM ENABLE Run 3 - Statio Pressure Alarm Enable Disabled Enabled FC.FC3.RX SP. INP ALARM ENABLE Run 3 - Browing Temperature Alarm Enable Disabled Enabled FC.FC3.RX ETEMP ALARM ENABLE Run 3 - Beta Ratio Alarm Enable Disabled Enabled FC.FC3.RX SP. MO Run 4 - Static Pressure Manual Override Live Override Live Override FC.FC3.RX SP. MO Run 4 - Static Pressure Manual Override Live Live					
1045 FC.FC3.RX SP_INP_ALARM_ENABLE Run 3 - Static Pressure Alarm Enable Disabled Enabled 1046 FC.FC3.RX_STEMP_ALARM_ENABLE Run 3 - Flowing Temperature Alarm Enable Disabled Enabled 1047 FC.FC3.RX_SOS_ALRM_ENABLE Run 3 - Steet Ratio Alarm Enable Disabled Enabled 1048 FC.FC3.RX_SOS_ALRM_ENABLE Run 3 - Speed of Sound Alarm Enable Disabled Enabled 1049 FC.FC3.RX_SOS_ALRM_ENABLE Run 3 - Speed of Sound Alarm Enable Disabled Enabled 1049 FC.FC4.RX_FTEMP_MO Run 4 - Static Pressure Manual Override Live Override 1050 FC.FC4.RX_FTEMP_MO Run 4 - Differential Pressure Manual Override Live Override 1051 FC.FC4.RX_FTEMP_MO Run 4 - Differential Pressure Manual Override Live Override 1052 FC.RA MAINT MODE Run 4 - Maintenance Mode Normal Maintenan 1054 FC.FC4.RX_FTEMP_MO Run 4 - Maintenance Mode Normal Maintenan 1055 FC.FC4.RX_TAP_LOC Run 4 - Tal_D. Location Downstream Upstream 1054 FC.FC4.RX_TAP_LOC Run 4 - Tal_D. Location Downstream Upstream 1055 FC.FC4.RX_TAP_LOC Run 4 - Tal_D. Location Downstream Upstream 1055 FC.FC4.RX_TAP_LOC Run 4 - Tal_D. Location Downstream Upstream 1056 FC.FC4.RX_TAP_LOC Run 4 - Flow Rate Alarm Enable Disabled Enabled 1057 FC.FC4.RX_TAP_LARM_ENABLE Run 4 - Differential Input Alarm Enable Disabled Enabled 1058 FC.FC4.RX_TAP_LARM_ENABLE Run 4 - Static Pressure Alarm Enable Disabled Enabled 1058 FC.FC4.RX_TAP_LARM_ENABLE Run 4 - Steel Ratio Alarm Enable Disabled Enabled 1058 FC.FC4.RX_TAP_LARM_ENABLE Run 4 - Steel Ratio Alarm Enable Disabled Enabled 1059 FC.FC4.RX_SOS_ALRM_ENABLE Run 4 - Steel Ratio Alarm Enable Disabled Enabled 1059 FC.FC4.RX_SOS_ALRM_ENABLE Run 5 - Static Pressure Manual Override Live Override 1062 FC.FC5.RX_TAP_LOC Run 5 - Static Pressure Manual Override Live Override 1066 FC.FC5.RX_TAP_LOC Run 5 - Static Pressure Manual Override Live Override 1066 FC.FC5.					
1046 FC.FC3.RX FTEMP_ALARM_ENABLE Run 3 - Flowing Temperature Alarm Enable Disabled Enabled 1047 FC.FC3.RX SDS.A.RAME_NABLE Run 3 - Beta Ratio Alarm Enable Disabled Enabled 1048 FC.FC3.RX SDS.A.RAME_NABLE Run 3 - Sepaed of Sound Alarm Enable Disabled Enabled 1049 FC.FC4.RX SP_MO Run 4 - Static Pressure Manual Override Live Live					
1047 FC.FC3.RX BETA ALARM. ENABLE Run 3 - Beta Ratio Alarm Enable Disabled Enabled 1048 FC.FC3.RX S.PG ALRM. ENABLE Run 3 - Speed of Sound Alarm Enable Disabled Enabled 1049 FC.FC4.RX S.PM. ON Run 4 - Flowing Temperature Manual Override Live Override 1050 FC.FC4.RX FTEMP MO Run 4 - Flowing Temperature Manual Override Live Override 1051 FC.FC4.RX D.PM. ON Run 4 - Flowing Temperature Manual Override Live Override 1052 FC.R. MAINT_MODE Run 4 - Maintenance Mode Normal Maintenance 1053 FC.FC4.RX TAP_LOC Run 4 - Tap_Location Downstream Upstream Upstream 1054 FC.FC4.RX TAP_LOC Run 4 - Tap_Location Downstream Upstream Upstream 1054 FC.FC4.RX FACTOR_TYPE Run 4 - Flow Rate Alarm Enable Disabled Enabled 1056 FC.FC4.RX FACTOR_TYPE Run 4 - Flow Rate Alarm Enable Disabled Enabled 1056 FC.FC4.RX FACTOR_TYPE Run 4 - Differential Input Alarm Enable Disabled Enabled 1057 FC.FC4.RX S.P.INP_ALARM_ENABLE Run 4 - Differential Input Alarm Enable Disabled Enabled 1058 FC.FC4.RX S.P.INP_ALARM_ENABLE Run 4 - Static Pressure Alarm Enable Disabled Enabled 1058 FC.FC4.RX S.P.INP_ALARM_ENABLE Run 4 - Speed of Sound Alarm Enable Disabled Enabled 1059 FC.FC4.RX S.P.INP_ALARM_ENABLE Run 4 - Speed of Sound Alarm Enable Disabled Enabled 1059 FC.FC4.RX S.P.INP_ALARM_ENABLE Run 4 - Speed of Sound Alarm Enable Disabled Enabled 1059 FC.FC5.RX S.P.M.O Run 5 - Static Pressure Manual Override Live Override 1061 FC.FC5.RX S.P.M.O Run 5 - Static Pressure Manual Override Live Override 1062 FC.FC5.RX S.P.M.O Run 5 - Flowing Temperature Mamual Override Live Override 1064 FC.FC5.RX S.P.INP_ALARM_ENABLE Run 5 - Flowing Temperature Mamual Override Live Override 1066 FC.FC5.RX FATEO R.P.INP_ALARM_ENABLE Run 5 - Flowing Temperature Mamual Override Live Override 1066 FC.FC5.RX S.P.INP_ALARM_ENABLE Run 5 - Flowing Temperature Alarm Enable Disable					
1048 FC.FC3.RX SOS ALRM ENABLE Run 3 - Speed of Sound Alarm Enable Disabled Enabled 1049 FC.FC4.RX SP.MO Run 4 - Static Pressure Manual Override Live Override 1050 FC.FC4.RX FTEMP_MO Run 4 - Plowing Temperature Manual Override Live Override 1051 FC.FC4.RX DP MO Run 4 - Differential Pressure Manual Override Live Override 1052 FC.FC4.RX DP MO Run 4 - Differential Pressure Manual Override Live Override 1052 FC.FC4.RX TAP LOC Run 4 - Tap Location Downstream Upstream 1053 FC.FC4.RX FACTOR TYPE Run 4 - K Factor Type CuFT/Pulse Pulse/Cuf 1055 FC.FC4.RX FACTOR TYPE Run 4 - Flow Rate Alarm Enable Disabled Enabled 1056 FC.FC4.RX DP.ND ALARM ENABLE Run 4 - Differential Input Alarm Enable Disabled Enabled 1056 FC.FC4.RX DP.ND ALARM ENABLE Run 4 - Static Pressure Alarm Enable Disabled Enabled 1058 FC.FC4.RX DP.ND ALARM ENABLE Run 4 - Flowing Temperature Alarm Enable Disabled Enabled 1059 FC.FC4.RX DP.ND ALARM ENABLE Run 4 - Flowing Temperature Alarm Enable Disabled Enabled 1059 FC.FC4.RX SDS ALRM ENABLE Run 4 - Flowing Temperature Alarm Enable Disabled Enabled 1060 FC.FC5.RX SDS ALRM ENABLE Run 4 - Speed of Sound Alarm Enable Disabled Enabled 1060 FC.FC5.RX SDS MARM ENABLE Run 4 - Speed of Sound Alarm Enable Disabled Enabled 1061 FC.FC5.RX SDS MARM ENABLE Run 5 - Static Pressure Manual Override Live Override 1062 FC.FC5.RX SDS MARM ENABLE Run 5 - Static Pressure Manual Override Live Override 1062 FC.FC5.RX SDS MO Run 5 - Differential Pressure Manual Override Live Override 1062 FC.FC5.RX SDS MO Run 5 - Differential Pressure Manual Override Live Override 1064 FC.FC5.RX SDS MARM ENABLE Run 5 - Differential Input Alarm Enable Disabled Enabled 1066 FC.FC5.RX SDS MARM ENABLE Run 5 - Static Pressure Manual Override Live Override 1066 FC.FC5.RX SDS MARM ENABLE Run 5 - Static Pressure Manual Override Live Override					
1049 F.C.F.C.4.RX S.P.MO					
1050 FC.FC4.RX FTEMP MO			'		
1051 FC.FC4.RX DP MO					
1052 FC.R4 MAINT MODE			· · · · · · · · · · · · · · · · · · ·		
1053 FC.FC4.RX TAP LOC					Maintenance
FC.FC4.RX KFACTOR_TYPE					
1055 FC.FC4.RX RATE ALARM ENABLE Run 4 - Flow Rate Alarm Enable Disabled Enabled				İ	Pulse/CuFT
1056 FC.FC4.RX DP INP ALARM ENABLE Run 4 - Differential Input Alarm Enable Disabled Enabled			• •		
FC.FC4.RX SP_INP_ALARM_ENABLE Run 4 - Static Pressure Alarm Enable Disabled Enabled					
1058 FC.FC4.RX FTEMP ALARM ENABLE Run 4 - Flowing Temperature Alarm Enable Disabled Enabled			•		
1059 FC.FC4.RX BETA ALARM ENABLE Run 4 - Beta Ratio Alarm Enable Disabled Enabled					
1060 FC.FC4.RX_SOS_ALRM_ENABLE Run 4 - Speed of Sound Alarm Enable Disabled Enabled					
Total FC.FCS.RX SP.MO					
FC.FC5.RX FTEMP MO			-		
Top					
1064 FC.R5 MAINT MODE					
1065 FC.FC5.RX TAP_LOC Run 5 - Tap Location Downstream Upstream 1066 FC.FC5.RX KFACTOR TYPE Run 5 - K Factor Type CuFT/Pulse Pulse/Cuf 1067 FC.FC5.RX RATE_ALARM_ENABLE Run 5 - Flow Rate Alarm Enable Disabled Enabled 1068 FC.FC5.RX DP_INP_ALARM_ENABLE Run 5 - Differential Input Alarm Enable Disabled Enabled 1069 FC.FC5.RX SP_INP_ALARM_ENABLE Run 5 - Static Pressure Alarm Enable Disabled Enabled 1070 FC.FC5.RX FTEMP_ALARM_ENABLE Run 5 - Flowing Temperature Alarm Enable Disabled Enabled 1071 FC.FC5.RX BETA_ALARM_ENABLE Run 5 - Speed of Sound Alarm Enable Disabled Enabled 1072 FC.FC5.RX SOS_ALRM_ENABLE Run 5 - Speed of Sound Alarm Enable Disabled Enabled 1073 FC.FC6.RX SP_MO Run 6 - Static Pressure Manual Override Live Override 1074 FC.FC6.RX FTEMP_MO Run 6 - Flowing Temperature Manual Override Live Override 1075 FC.FC6.RX DP_MO Run 6 - Maintenance Mode Normal Maintenance 1076 FC.R6_MAINT_MODE Run 6 - Maintenance Mode Normal Maintenance 1077 FC.FC6.RX FTEMP_LOC Run 6 - Tap Location Downstream Upstream 1078 FC.FC6.RX RATE_ALARM_ENABLE Run 6 - Flow Rate Alarm Enable Disabled Enabled 1080 FC.FC6.RX RATE_ALARM_ENABLE Run 6 - Flow Rate Alarm Enable Disabled Enabled 1080 FC.FC6.RX RATE_ALARM_ENABLE Run 6 - Static Pressure Alarm Enable Disabled Enabled 1081 FC.FC6.RX RATE_ALARM_ENABLE Run 6 - Static Pressure Alarm Enable Disabled Enabled 1081 FC.FC6.RX FTEMP_ALARM_ENABLE Run 6 - Static Pressure Alarm Enable Disabled Enabled 1082 FC.FC6.RX FTEMP_ALARM_ENABLE Run 6 - Static Pressure Alarm Enable Disabled Enabled 1082 FC.FC6.RX STEMP_ALARM_ENABLE Run 6 - Static Pressure Alarm Enable Disabled Enabled 1084 FC.FC6.RX STEMP_ALARM_ENABLE Run 6 - Static Pressure Alarm Enable Disabled Enabled 1084 FC.FC6.RX STEMP_ALARM_ENABLE Run 6 - Static Pressure Alarm Enable Disabled Ena					
TOBGE FC.FC5.RX KFACTOR_TYPE Run 5 - K Factor Type CuFT/Pulse Pulse/Cuf					
1067 FC.FCS.RX RATE ALARM ENABLE Run 5 - Flow Rate Alarm Enable Disabled Enabled		<u> </u>			
1068FC.FC5.RXDP INP ALARM ENABLERun 5 - Differential Input Alarm EnableDisabledEnabled1069FC.FC5.RXSP_INP_ALARM_ENABLERun 5 - Static Pressure Alarm EnableDisabledEnabled1070FC.FC5.RXFTEMP_ALARM_ENABLERun 5 - Flowing Temperature Alarm EnableDisabledEnabled1071FC.FC5.RXBETA_ALARM_ENABLERun 5 - Beta Ratio Alarm EnableDisabledEnabled1072FC.FC5.RXSOS_ALRM_ENABLERun 5 - Speed of Sound Alarm EnableDisabledEnabled1073FC.FC6.RXSP_MORun 6 - Static Pressure Manual OverrideLiveOverride1074FC.FC6.RXFTEMP_MORun 6 - Flowing Temperature Manual OverrideLiveOverride1075FC.FC6.RXDP_MORun 6 - Differential Pressure Manual OverrideLiveOverride1076FC.R6 MAINT_MODERun 6 - Maintenance ModeNormalMaintenan1077FC.FC6.RX_TAP_LOCRun 6 - Tap LocationDownstreamUpstream1078FC.FC6.RX_KFACTOR_TYPERun 6 - K Factor TypeCuFT/PulsePulse/Cuf1079FC.FC6.RX_RATE_ALARM_ENABLERun 6 - Flow Rate Alarm EnableDisabledEnabled1080FC.FC6.RX_DP_INP_ALARM_ENABLERun 6 - Flow Rate Alarm EnableDisabledEnabled1081FC.FC6.RX_SP_INP_ALARM_ENABLERun 6 - Flowing Temperature Alarm EnableDisabledEnabled1082FC.FC6.RX_SP_INP_ALARM_ENABLERun 6 - Flowing Temperature Manual OverrideDisabledEnabled10			• •		
1069FC.FC5.RX_SP_INP_ALARM_ENABLERun 5 - Static Pressure Alarm EnableDisabledEnabled1070FC.FC5.RX_FTEMP_ALARM_ENABLERun 5 - Flowing Temperature Alarm EnableDisabledEnabled1071FC.FC5.RX_BETA_ALARM_ENABLERun 5 - Beta Ratio Alarm EnableDisabledEnabled1072FC.FC5.RX_SOS_ALRM_ENABLERun 5 - Speed of Sound Alarm EnableDisabledEnabled1073FC.FC6.RX_SP_MORun 6 - Static Pressure Manual OverrideLiveOverride1074FC.FC6.RX_TEMP_MORun 6 - Flowing Temperature Manual OverrideLiveOverride1075FC.FC6.RX_DP_MORun 6 - Differential Pressure Manual OverrideLiveOverride1076FC.R6_MAINT_MODERun 6 - Maintenance ModeNormalMaintenance1077FC.FC6.RX_TAP_LOCRun 6 - Tap LocationDownstreamUpstream1078FC.FC6.RX_KFACTOR_TYPERun 6 - K Factor TypeCuFT/PulsePulse/Cuf1079FC.FC6.RX_RATE_ALARM_ENABLERun 6 - Flow Rate Alarm EnableDisabledEnabled1080FC.FC6.RX_SP_INP_ALARM_ENABLERun 6 - Static Pressure Alarm EnableDisabledEnabled1081FC.FC6.RX_SP_INP_ALARM_ENABLERun 6 - Flowing Temperature Alarm EnableDisabledEnabled1083FC.FC6.RX_SETA_ALARM_ENABLERun 6 - Flowing Temperature Alarm EnableDisabledEnabled1084FC.FC6.RX_SOS_ALRM_ENABLERun 6 - Static Pressure Manual OverrideDisabledEnabled1085FC.FC6.RX_SOS_ALRM_ENABLERun 6 - Speed of Soun					
1070FC.FC5.RX FTEMP_ALARM_ENABLERun 5 - Flowing Temperature Alarm EnableDisabledEnabled1071FC.FC5.RX_BETA_ALARM_ENABLERun 5 - Beta Ratio Alarm EnableDisabledEnabled1072FC.FC5.RX_SOS_ALRM_ENABLERun 5 - Speed of Sound Alarm EnableDisabledEnabled1073FC.FC6.RX_SP_MORun 6 - Static Pressure Manual OverrideLiveOverride1074FC.FC6.RX_FTEMP_MORun 6 - Flowing Temperature Manual OverrideLiveOverride1075FC.FC6.RX_DP_MORun 6 - Differential Pressure Manual OverrideLiveOverride1076FC.R6_MAINT_MODERun 6 - Maintenance ModeNormalMaintenance1077FC.FC6.RX_TAP_LOCRun 6 - Tap LocationDownstreamUpstream1078FC.FC6.RX_KFACTOR_TYPERun 6 - K Factor TypeCuFT/PulsePulse/Cuf1079FC.FC6.RX_RATE_ALARM_ENABLERun 6 - Flow Rate Alarm EnableDisabledEnabled1080FC.FC6.RX_DP_INP_ALARM_ENABLERun 6 - Static Pressure Alarm EnableDisabledEnabled1081FC.FC6.RX_SP_INP_ALARM_ENABLERun 6 - Static Pressure Alarm EnableDisabledEnabled1082FC.FC6.RX_SETA_ALARM_ENABLERun 6 - Flowing Temperature Alarm EnableDisabledEnabled1083FC.FC6.RX_SETA_ALARM_ENABLERun 6 - Beta Ratio Alarm EnableDisabledEnabled1084FC.FC6.RX_SOS_ALRM_ENABLERun 6 - Speed of Sound Alarm EnableDisabledEnabled1085FC.FC7.RX_SP_MORun 7 - Static Pressure Manual Override<			•		
1071FC.FC5.RXBETA_ALARM_ENABLERun 5 - Beta Ratio Alarm EnableDisabledEnabled1072FC.FC5.RXSOS_ALRM_ENABLERun 5 - Speed of Sound Alarm EnableDisabledEnabled1073FC.FC6.RXSP_MORun 6 - Static Pressure Manual OverrideLiveOverride1074FC.FC6.RXSP_MORun 6 - Flowing Temperature Manual OverrideLiveOverride1075FC.FC6.RXDP_MORun 6 - Differential Pressure Manual OverrideLiveOverride1076FC.R6_MAINT_MODERun 6 - Differential Pressure Manual OverrideLiveOverride1077FC.FC6.RX_TAP_LOCRun 6 - Maintenance ModeNormalMaintenan1078FC.FC6.RX_TAP_LOCRun 6 - Tap LocationDownstreamUpstream1079FC.FC6.RX_KFACTOR_TYPERun 6 - Flow Rate Alarm EnableDisabledEnabled1080FC.FC6.RX_RATE_ALARM_ENABLERun 6 - Flow Rate Alarm EnableDisabledEnabled1081FC.FC6.RX_SP_INP_ALARM_ENABLERun 6 - Static Pressure Alarm EnableDisabledEnabled1082FC.FC6.RX_FTEMP_ALARM_ENABLERun 6 - Flowing Temperature Alarm EnableDisabledEnabled1083FC.FC6.RX_SDS_ALRM_ENABLERun 6 - Beta Ratio Alarm EnableDisabledEnabled1084FC.FC6.RX_SOS_ALRM_ENABLERun 6 - Speed of Sound Alarm EnableDisabledEnabled1085FC.FC7.RX_SP_MORun 7 - Static Pressure Manual OverrideLiveOverride1086FC.FC7.RX_DP_MORun 7 - Flowing Temperature M					
1072FC.FC5.RX_SOS_ALRM_ENABLERun 5 - Speed of Sound Alarm EnableDisabledEnabled1073FC.FC6.RX_SP_MORun 6 - Static Pressure Manual OverrideLiveOverride1074FC.FC6.RX_FTEMP_MORun 6 - Flowing Temperature Manual OverrideLiveOverride1075FC.FC6.RX_DP_MORun 6 - Differential Pressure Manual OverrideLiveOverride1076FC.R6_MAINT_MODERun 6 - Maintenance ModeNormalMaintenan1077FC.FC6.RX_TAP_LOCRun 6 - Tap LocationDownstreamUpstream1078FC.FC6.RX_KFACTOR_TYPERun 6 - K Factor TypeCuFT/PulsePulse/Cuf1079FC.FC6.RX_RATE_ALARM_ENABLERun 6 - Flow Rate Alarm EnableDisabledEnabled1080FC.FC6.RX_DP_INP_ALARM_ENABLERun 6 - Differential Input Alarm EnableDisabledEnabled1081FC.FC6.RX_SP_INP_ALARM_ENABLERun 6 - Static Pressure Alarm EnableDisabledEnabled1082FC.FC6.RX_FTEMP_ALARM_ENABLERun 6 - Flowing Temperature Alarm EnableDisabledEnabled1083FC.FC6.RX_SDS_ALRM_ENABLERun 6 - Beta Ratio Alarm EnableDisabledEnabled1084FC.FC6.RX_SOS_ALRM_ENABLERun 6 - Speed of Sound Alarm EnableDisabledEnabled1085FC.FC7.RX_SP_MORun 7 - Static Pressure Manual OverrideLiveOverride1086FC.FC7.RX_FTEMP_MORun 7 - Flowing Temperature Manual OverrideLiveOverride1087FC.FC7.RX_DP_MORun 7 - Differential Pressure Manual OverrideLive <td></td> <td></td> <td></td> <td></td> <td></td>					
1073FC.FC6.RX_SP_MORun 6 - Static Pressure Manual OverrideLiveOverride1074FC.FC6.RX_FTEMP_MORun 6 - Flowing Temperature Manual OverrideLiveOverride1075FC.FC6.RX_DP_MORun 6 - Differential Pressure Manual OverrideLiveOverride1076FC.R6_MAINT_MODERun 6 - Maintenance ModeNormalMaintenar1077FC.FC6.RX_TAP_LOCRun 6 - Tap LocationDownstreamUpstream1078FC.FC6.RX_KFACTOR_TYPERun 6 - K Factor TypeCuFT/PulsePulse/Cuf1079FC.FC6.RX_RATE_ALARM_ENABLERun 6 - Flow Rate Alarm EnableDisabledEnabled1080FC.FC6.RX_DP_INP_ALARM_ENABLERun 6 - Differential Input Alarm EnableDisabledEnabled1081FC.FC6.RX_SP_INP_ALARM_ENABLERun 6 - Static Pressure Alarm EnableDisabledEnabled1082FC.FC6.RX_FTEMP_ALARM_ENABLERun 6 - Flowing Temperature Alarm EnableDisabledEnabled1083FC.FC6.RX_BETA_ALARM_ENABLERun 6 - Beta Ratio Alarm EnableDisabledEnabled1084FC.FC6.RX_SOS_ALRM_ENABLERun 6 - Speed of Sound Alarm EnableDisabledEnabled1085FC.FC7.RX_SP_MORun 7 - Static Pressure Manual OverrideLiveOverride1086FC.FC7.RX_TEMP_MORun 7 - Flowing Temperature Manual OverrideLiveOverride1087FC.FC7.RX_DP_MORun 7 - Differential Pressure Manual OverrideLiveOverride1088FC.FC7.RX_DP_MORun 7 - Maintenance ModeNormalMaintenance					
1074FC.FC6.RX FTEMP_MORun 6 - Flowing Temperature Manual OverrideLiveOverride1075FC.FC6.RX_DP_MORun 6 - Differential Pressure Manual OverrideLiveOverride1076FC.R6_MAINT_MODERun 6 - Maintenance ModeNormalMaintenan1077FC.FC6.RX_TAP_LOCRun 6 - Tap LocationDownstreamUpstream1078FC.FC6.RX_KFACTOR_TYPERun 6 - K Factor TypeCuFT/PulsePulse/Cuf1079FC.FC6.RX_RATE_ALARM_ENABLERun 6 - Flow Rate Alarm EnableDisabledEnabled1080FC.FC6.RX_DP_INP_ALARM_ENABLERun 6 - Differential Input Alarm EnableDisabledEnabled1081FC.FC6.RX_SP_INP_ALARM_ENABLERun 6 - Static Pressure Alarm EnableDisabledEnabled1082FC.FC6.RX_FTEMP_ALARM_ENABLERun 6 - Flowing Temperature Alarm EnableDisabledEnabled1083FC.FC6.RX_SDETA_ALARM_ENABLERun 6 - Beta Ratio Alarm EnableDisabledEnabled1084FC.FC6.RX_SOS_ALRM_ENABLERun 6 - Speed of Sound Alarm EnableDisabledEnabled1085FC.FC7.RX_SP_MORun 7 - Static Pressure Manual OverrideLiveOverride1086FC.FC7.RX_FTEMP_MORun 7 - Flowing Temperature Manual OverrideLiveOverride1087FC.FC7.RX_DP_MORun 7 - Differential Pressure Manual OverrideLiveOverride1088FC.R7_MAINT_MODERun 7 - Maintenance ModeNormalMaintenance			'		
1075 FC.FC6.RX_DP_MO Run 6 - Differential Pressure Manual Override Live Override					
1076FC.R6 MAINT MODERun 6 - Maintenance ModeNormalMaintenan1077FC.FC6.RX TAP LOCRun 6 - Tap LocationDownstreamUpstream1078FC.FC6.RX KFACTOR TYPERun 6 - K Factor TypeCuFT/PulsePulse/Cuf1079FC.FC6.RX RATE ALARM ENABLERun 6 - Flow Rate Alarm EnableDisabledEnabled1080FC.FC6.RX DP INP ALARM ENABLERun 6 - Differential Input Alarm EnableDisabledEnabled1081FC.FC6.RX SP INP ALARM ENABLERun 6 - Static Pressure Alarm EnableDisabledEnabled1082FC.FC6.RX FTEMP ALARM ENABLERun 6 - Flowing Temperature Alarm EnableDisabledEnabled1083FC.FC6.RX BETA ALARM ENABLERun 6 - Beta Ratio Alarm EnableDisabledEnabled1084FC.FC6.RX SOS ALRM ENABLERun 6 - Speed of Sound Alarm EnableDisabledEnabled1085FC.FC7.RX SP MORun 7 - Static Pressure Manual OverrideLiveOverride1086FC.FC7.RX FTEMP MORun 7 - Flowing Temperature Manual OverrideLiveOverride1087FC.FC7.RX DP MORun 7 - Differential Pressure Manual OverrideLiveOverride1088FC.R7 MAINT MODERun 7 - Maintenance ModeNormalMaintenance				İ	
1077FC.FC6.RX TAP_LOCRun 6 - Tap LocationDownstreamUpstream1078FC.FC6.RX_KFACTOR_TYPERun 6 - K Factor TypeCuFT/PulsePulse/CuF1079FC.FC6.RX_RATE_ALARM_ENABLERun 6 - Flow Rate Alarm EnableDisabledEnabled1080FC.FC6.RX_DP_INP_ALARM_ENABLERun 6 - Differential Input Alarm EnableDisabledEnabled1081FC.FC6.RX_SP_INP_ALARM_ENABLERun 6 - Static Pressure Alarm EnableDisabledEnabled1082FC.FC6.RX_FTEMP_ALARM_ENABLERun 6 - Flowing Temperature Alarm EnableDisabledEnabled1083FC.FC6.RX_BETA_ALARM_ENABLERun 6 - Beta Ratio Alarm EnableDisabledEnabled1084FC.FC6.RX_SOS_ALRM_ENABLERun 6 - Speed of Sound Alarm EnableDisabledEnabled1085FC.FC7.RX_SP_MORun 7 - Static Pressure Manual OverrideLiveOverride1086FC.FC7.RX_FTEMP_MORun 7 - Flowing Temperature Manual OverrideLiveOverride1087FC.FC7.RX_DP_MORun 7 - Differential Pressure Manual OverrideLiveOverride1088FC.R7_MAINT_MODERun 7 - Maintenance ModeNormalMaintenance					Maintenance
1078FC.FC6.RX_KFACTOR_TYPERun 6 - K Factor TypeCuFT/PulsePulse/Cuf1079FC.FC6.RX_RATE_ALARM_ENABLERun 6 - Flow Rate Alarm EnableDisabledEnabled1080FC.FC6.RX_DP_INP_ALARM_ENABLERun 6 - Differential Input Alarm EnableDisabledEnabled1081FC.FC6.RX_SP_INP_ALARM_ENABLERun 6 - Static Pressure Alarm EnableDisabledEnabled1082FC.FC6.RX_FTEMP_ALARM_ENABLERun 6 - Flowing Temperature Alarm EnableDisabledEnabled1083FC.FC6.RX_BETA_ALARM_ENABLERun 6 - Beta Ratio Alarm EnableDisabledEnabled1084FC.FC6.RX_SOS_ALRM_ENABLERun 6 - Speed of Sound Alarm EnableDisabledEnabled1085FC.FC7.RX_SP_MORun 7 - Static Pressure Manual OverrideLiveOverride1086FC.FC7.RX_FTEMP_MORun 7 - Flowing Temperature Manual OverrideLiveOverride1087FC.FC7.RX_DP_MORun 7 - Differential Pressure Manual OverrideLiveOverride1088FC.R7_MAINT_MODERun 7 - Maintenance ModeNormalMaintenance				İ	Upstream
1079FC.FC6.RX_RATE_ALARM_ENABLERun 6 - Flow Rate Alarm EnableDisabledEnabled1080FC.FC6.RX_DP_INP_ALARM_ENABLERun 6 - Differential Input Alarm EnableDisabledEnabled1081FC.FC6.RX_SP_INP_ALARM_ENABLERun 6 - Static Pressure Alarm EnableDisabledEnabled1082FC.FC6.RX_FTEMP_ALARM_ENABLERun 6 - Flowing Temperature Alarm EnableDisabledEnabled1083FC.FC6.RX_BETA_ALARM_ENABLERun 6 - Beta Ratio Alarm EnableDisabledEnabled1084FC.FC6.RX_SOS_ALRM_ENABLERun 6 - Speed of Sound Alarm EnableDisabledEnabled1085FC.FC7.RX_SP_MORun 7 - Static Pressure Manual OverrideLiveOverride1086FC.FC7.RX_FTEMP_MORun 7 - Flowing Temperature Manual OverrideLiveOverride1087FC.FC7.RX_DP_MORun 7 - Differential Pressure Manual OverrideLiveOverride1088FC.R7_MAINT_MODERun 7 - Maintenance ModeNormalMaintenance					Pulse/CuFT
1080FC.FC6.RX_DP_INP_ALARM_ENABLERun 6 - Differential Input Alarm EnableDisabledEnabled1081FC.FC6.RX_SP_INP_ALARM_ENABLERun 6 - Static Pressure Alarm EnableDisabledEnabled1082FC.FC6.RX_FTEMP_ALARM_ENABLERun 6 - Flowing Temperature Alarm EnableDisabledEnabled1083FC.FC6.RX_BETA_ALARM_ENABLERun 6 - Beta Ratio Alarm EnableDisabledEnabled1084FC.FC6.RX_SOS_ALRM_ENABLERun 6 - Speed of Sound Alarm EnableDisabledEnabled1085FC.FC7.RX_SP_MORun 7 - Static Pressure Manual OverrideLiveOverride1086FC.FC7.RX_FTEMP_MORun 7 - Flowing Temperature Manual OverrideLiveOverride1087FC.FC7.RX_DP_MORun 7 - Differential Pressure Manual OverrideLiveOverride1088FC.R7_MAINT_MODERun 7 - Maintenance ModeNormalMaintenance			• •		
1081FC.FC6.RX_SP_INP_ALARM_ENABLERun 6 - Static Pressure Alarm EnableDisabledEnabled1082FC.FC6.RX_FTEMP_ALARM_ENABLERun 6 - Flowing Temperature Alarm EnableDisabledEnabled1083FC.FC6.RX_BETA_ALARM_ENABLERun 6 - Beta Ratio Alarm EnableDisabledEnabled1084FC.FC6.RX_SOS_ALRM_ENABLERun 6 - Speed of Sound Alarm EnableDisabledEnabled1085FC.FC7.RX_SP_MORun 7 - Static Pressure Manual OverrideLiveOverride1086FC.FC7.RX_FTEMP_MORun 7 - Flowing Temperature Manual OverrideLiveOverride1087FC.FC7.RX_DP_MORun 7 - Differential Pressure Manual OverrideLiveOverride1088FC.R7_MAINT_MODERun 7 - Maintenance ModeNormalMaintenance					
1082FC.FC6.RX_FTEMP_ALARM_ENABLERun 6 - Flowing Temperature Alarm EnableDisabledEnabled1083FC.FC6.RX_BETA_ALARM_ENABLERun 6 - Beta Ratio Alarm EnableDisabledEnabled1084FC.FC6.RX_SOS_ALRM_ENABLERun 6 - Speed of Sound Alarm EnableDisabledEnabled1085FC.FC7.RX_SP_MORun 7 - Static Pressure Manual OverrideLiveOverride1086FC.FC7.RX_FTEMP_MORun 7 - Flowing Temperature Manual OverrideLiveOverride1087FC.FC7.RX_DP_MORun 7 - Differential Pressure Manual OverrideLiveOverride1088FC.R7_MAINT_MODERun 7 - Maintenance ModeNormalMaintenance					
1083FC.FC6.RX_BETA_ALARM_ENABLERun 6 - Beta Ratio Alarm EnableDisabledEnabled1084FC.FC6.RX_SOS_ALRM_ENABLERun 6 - Speed of Sound Alarm EnableDisabledEnabled1085FC.FC7.RX_SP_MORun 7 - Static Pressure Manual OverrideLiveOverride1086FC.FC7.RX_FTEMP_MORun 7 - Flowing Temperature Manual OverrideLiveOverride1087FC.FC7.RX_DP_MORun 7 - Differential Pressure Manual OverrideLiveOverride1088FC.R7_MAINT_MODERun 7 - Maintenance ModeNormalMaintenance					
1084 FC.FC6.RX_SOS_ALRM_ENABLE Run 6 - Speed of Sound Alarm Enable Disabled Enabled 1085 FC.FC7.RX_SP_MO Run 7 - Static Pressure Manual Override Live Override 1086 FC.FC7.RX_FTEMP_MO Run 7 - Flowing Temperature Manual Override Live Override 1087 FC.FC7.RX_DP_MO Run 7 - Differential Pressure Manual Override Live Override 1088 FC.R7_MAINT_MODE Run 7 - Maintenance Mode Normal Maintenance					
1085 FC.FC7.RX_SP_MO Run 7 - Static Pressure Manual Override Live Override 1086 FC.FC7.RX_FTEMP_MO Run 7 - Flowing Temperature Manual Override Live Override 1087 FC.FC7.RX_DP_MO Run 7 - Differential Pressure Manual Override Live Override 1088 FC.R7_MAINT_MODE Run 7 - Maintenance Mode Normal Maintenance					
1086 FC.FC7.RX_FTEMP_MO Run 7 - Flowing Temperature Manual Override Live Override 1087 FC.FC7.RX_DP_MO Run 7 - Differential Pressure Manual Override Live Override 1088 FC.R7_MAINT_MODE Run 7 - Maintenance Mode Normal Maintenance			'		
1087 FC.FC7.RX_DP_MO Run 7 - Differential Pressure Manual Override Live Override 1088 FC.R7_MAINT_MODE Run 7 - Maintenance Mode Normal Maintenance					
1088 FC.R7_MAINT_MODE Run 7 - Maintenance Mode Normal Maintenan					
					Maintenance
1090 FC.FC7.RX_KFACTOR_TYPE Run 7 - K Factor Type CuFT/Pulse Pulse/CuF					Pulse/CuFT

1091FC.FC7.RX_RATE_ALARM_ENABLERun 7 - Flow Rate Alarm EnableDisabledEnabled1092FC.FC7.RX_DP_INP_ALARM_ENABLERun 7 - Differential Input Alarm EnableDisabledEnabled1093FC.FC7.RX_SP_INP_ALARM_ENABLERun 7 - Static Pressure Alarm EnableDisabledEnabled1094FC.FC7.RX_FTEMP_ALARM_ENABLERun 7 - Flowing Temperature Alarm EnableDisabledEnabled1095FC.FC7.RX_BETA_ALARM_ENABLERun 7 - Beta Ratio Alarm EnableDisabledEnabled1096FC.FC7.RX_SOS_ALRM_ENABLERun 7 - Speed of Sound Alarm EnableDisabledEnabled1097FC.FC8.RX_SP_MORun 8 - Static Pressure Manual OverrideLiveOverride1098FC.FC8.RX_FTEMP_MORun 8 - Flowing Temperature Manual OverrideLiveOverride1099FC.FC8.RX_DP_MORun 8 - Differential Pressure Manual OverrideLiveOverride1100FC.R8_MAINT_MODERun 8 - Maintenance ModeNormalMaintenan1101FC.FC8.RX_TAP_LOCRun 8 - Tap LocationDownstreamUpstream	Coil#	Variable	Description	Off State	On State
1093 FC.FC/RX. SP INP ALARM ENABLE Run 7 - Static Pressure Alarm Enable Disabled Enabled 1094 FC.FC/RX. SPTEMP_ALARM ENABLE Run 7 - Flowing Temperature Alarm Enable Disabled Enabled 1096 FC.FC/RX. BETA_ALARM ENABLE Run 7 - Speed of Sound Alarm Enable Disabled Enabled 1096 FC.FC/RX. SOS. ALRM. ENABLE Run 7 - Speed of Sound Alarm Enable Disabled Enabled 1097 FC.FC/RX. SOS. ALRM. ENABLE Run 7 - Speed of Sound Alarm Enable Disabled Enabled 1098 FC.FC/RX. SP. MO Run 8 - Static Pressure Manual Override Live Override 1098 FC.FC/RX. RY. FP. MO Run 8 - Flowing Temperature Manual Override Live Override 1099 FC.FC/RX. RY. FP. MO Run 8 - Maintenance Mode Normal Maintenance Normal Normal Normal Fc.FC/8/RX. SP INP. ALARM ENABLE Run 8 - Static Pressure Alarm Enable Disabled Enabled Normal Fc.FC/8/RX. SP INP. ALARM ENABLE Run 8 - Static Pressure Alarm Enable Disabled Enabled Normal Fc.FC/8/RX. SP INP. ALARM ENABLE Run 8 - Static Pressure Alarm Enable Disabled Enabled Normal Fc.FC/8/RX. SP INP. ALARM ENABLE Run 8 - Static Pressure Alarm Enable Disabled Enabled Normal Fc.F	1091	FC.FC7.RX_RATE_ALARM_ENABLE	Run 7 - Flow Rate Alarm Enable	Disabled	Enabled
1094 FC.FCR.X. FTEMP. ALARM. ENABLE Run 7 - Flowing Temperature Alarm Enable Disabled Enabled	1092	FC.FC7.RX DP INP ALARM ENABLE	Run 7 - Differential Input Alarm Enable	Disabled	Enabled
1995	1093	FC.FC7.RX_SP_INP_ALARM_ENABLE	Run 7 - Static Pressure Alarm Enable	Disabled	Enabled
1096	1094	FC.FC7.RX_FTEMP_ALARM_ENABLE	Run 7 - Flowing Temperature Alarm Enable	Disabled	Enabled
1097	1095	FC.FC7.RX_BETA_ALARM_ENABLE	Run 7 - Beta Ratio Alarm Enable	Disabled	Enabled
1098	1096	FC.FC7.RX_SOS_ALRM_ENABLE	Run 7 - Speed of Sound Alarm Enable	Disabled	Enabled
1099 FC.FC8.RX DP MO	1097	FC.FC8.RX_SP_MO	Run 8 - Static Pressure Manual Override	Live	Override
100	1098	FC.FC8.RX_FTEMP_MO	Run 8 - Flowing Temperature Manual Override	Live	Override
1010 FC.FC8.RX TAP LOC Run 8 - Tap Location Downstream Upstream Upstream FC.FC8.RX KFACTOR TYPE Run 8 - K Factor Type CuFT/Pulse Pulse/CuI Pulse/CuI FC.FC8.RX KFACTOR TYPE Run 8 - Flow Rate Alarm Enable Disabled Enabled Enabled FC.FC8.RX Pulse/CuI	1099	FC.FC8.RX_DP_MO	Run 8 - Differential Pressure Manual Override	Live	Override
1102	1100	FC.R8_MAINT_MODE	Run 8 - Maintenance Mode	Normal	Maintenance
FC.FC8.RX RATE ALARM ENABLE Run 8 - Flow Rate Alarm Enable Disabled Enabled	1101	FC.FC8.RX_TAP_LOC	Run 8 - Tap Location	Downstream	Upstream
1104 F.C.F.C.B.RX DP INP ALARM ENABLE Run 8 - Differential Input Alarm Enable Disabled Enabled	1102	FC.FC8.RX_KFACTOR_TYPE	Run 8 - K Factor Type	CuFT/Pulse	Pulse/CuFT
1105 FC.FC8.RX SP_INP_ALARM_ENABLE Run 8 - Static Pressure Alarm Enable Disabled Enabled FC.FC8.RX FTEMP_ALARM_ENABLE Run 8 - Flowing Temperature Alarm Enable Disabled Enabled Enabled Enabled Disabled Enabled Enabled Disabled Enabled Enabled Enabled Disabled Enabled	1103	FC.FC8.RX_RATE_ALARM_ENABLE	Run 8 - Flow Rate Alarm Enable	Disabled	Enabled
1106 FC.FC8.RX FTEMP_ALARM_ENABLE Run 8 - Flowing Temperature Alarm Enable Disabled Enabled 1107 FC.FC8.RX BETA_ALARM_ENABLE Run 8 - Seta Ratio Alarm Enable Disabled Enabled 1108 FC.FC8.RX SOS ALRM_ENABLE Run 8 - Speed of Sound Alarm Enable Disabled Enabled 1109 UFM.UFM_1_ENABLE UItrasonic Flow Meter 1 - Communications Disabled Enabled 1110 UFM.UFM_1_ENABLE UItrasonic Flow Meter 1 - Communications Status Normal Fail 1111 UFM.UFM_2_ENABLE UItrasonic Flow Meter 2 - Communications Status Normal Fail 1112 UFM.UFM_2_ENABLE UItrasonic Flow Meter 2 - Communications Status Normal Fail 1113 UFM.UFM_3_ENABLE UItrasonic Flow Meter 3 - Communications Status Normal Fail 1114 UFM.UFM_3_ENABLE UItrasonic Flow Meter 3 - Communications Status Normal Fail 1115 UFM.UFM_4_ENABLE Enabled UItrasonic Flow Meter 3 - Communications Status Normal Fail 1116 UFM.UFM_4_ENABLE Enabled Disabled Enabled 1117 UFM.UFM_4_ENABLE Enabled Disabled Enabled 1118 UFM.UFM_5_ENABLE Enabled Disabled Enabled 1119 UFM.UFM_5_ENABLE Enabled Disabled Enabled 1110 UFM.UFM_6_ENABLE Enabled Disabled Enabled 1111 UFM.UFM_6_ENABLE Enabled Disabled Enabled 1112 UFM.UFM_6_ENABLE Disabled/Enabled Disabled Enabled 1117 UFM.UFM_6_ENABLE Disabled/Enabled Disabled Enabled 1118 UFM.UFM_6_ENABLE Disabled/Enabled Disabled Enabled 1119 UFM.UFM_6_ENABLE Disabled/Enabled Disabled Enabled 1120 UFM.UFM_6_ENABLE Disabled/Enabled Disabled Enabled 1121 PG_GC.GC_1.GC_5.TIMER_EN Disabled/Enabled Disabled Enabled 1122 PG_GC.GC_1.GC_5.TIMER_EN Disabled/Enabled Disabled Enabled 1124 PG_GC.GC_1.GC_6.TIMER_EN Disabled/Enabled Disabled	1104	FC.FC8.RX_DP_INP_ALARM_ENABLE	Run 8 - Differential Input Alarm Enable	Disabled	Enabled
1107 FC.FC8.RX BETA ALARM ENABLE Run 8 - Beta Ratio Alarm Enable Disabled Enabled	1105	FC.FC8.RX_SP_INP_ALARM_ENABLE	Run 8 - Static Pressure Alarm Enable	Disabled	Enabled
1108 FC.FC8.RX SOS ALRM ENABLE Run 8 - Speed of Sound Alarm Enable Disabled Enabled	1106	FC.FC8.RX_FTEMP_ALARM_ENABLE	Run 8 - Flowing Temperature Alarm Enable	Disabled	Enabled
Ultrasonic Flow Meter 1 - Communications Enabled Ultrasonic Flow Meter 1 - Communications Status Ultrasonic Flow Meter 2 - Communications Status Ultrasonic Flow Meter 2 - Communications Enabled Ultrasonic Flow Meter 2 - Communications Enabled Ultrasonic Flow Meter 2 - Communications Enabled Ultrasonic Flow Meter 2 - Communications Ultrasonic Flow Meter 3 - Communications Enabled Ultrasonic Flow Meter 3 - Communications Ultrasonic Flow Meter 3 - Communications Ultrasonic Flow Meter 3 - Communications Enabled Ultrasonic Flow Meter 3 - Communications Ultrasonic Flow Meter 3 - Communications Ultrasonic Flow Meter 4 - Communications Ultrasonic Flow Meter 4 - Communications Ultrasonic Flow Meter 4 - Communications Ultrasonic Flow Meter 4 - Communications Ultrasonic Flow Meter 4 - Communications Ultrasonic Flow Meter 5 - Communications Ultrasonic Flow Meter 5 - Communications Ultrasonic Flow Meter 5 - Communications Ultrasonic Flow Meter 5 - Communications Ultrasonic Flow Meter 5 - Communications Ultrasonic Flow Meter 5 - Communications Ultrasonic Flow Meter 6 - Communications Ultrasonic Flow Meter 6 - Communications Ultrasonic Flow Meter 6 - Communications Ultrasonic Flow Meter 6 - Communications Ultrasonic Flow Meter 6 - Communications Ultrasonic Flow Meter 6 - Communications Ultrasonic Flow Meter 6 - Communications Ultrasonic Flow Meter 6 - Communications Ultrasonic Flow Meter 6 - Communications Ultrasonic Flow Meter 6 - Communications Ultrasonic Flow Meter 6 - Communications Ultrasonic Flow Meter 6 - Communications Ultrasonic Flow Meter 6 - Communications Ultrasonic Flow Meter 6 - Communications Ultrasonic Flow Meter 6 - Communications Ultrasonic Flow Meter 6 - Communications Unicommunications Un	1107	FC.FC8.RX_BETA_ALARM_ENABLE	Run 8 - Beta Ratio Alarm Enable	Disabled	Enabled
1109 UFM.UFM_1_ENABLE Enabled Disabled Enabled 1110 UFM.UFM_1_COMMSTATUS Ultrasonic Flow Meter 1 - Communications Status Oliman 1111 UFM.UFM_2_ENABLE Enabled Disabled Enabled 1112 UFM.UFM_2_ENABLE Enabled Disabled Enabled 1113 UFM.UFM_3_ENABLE Enabled Ultrasonic Flow Meter 2 - Communications Status Normal Fail 1114 UFM.UFM_3_ENABLE Enabled Disabled Enabled 1115 UFM.UFM_3_ENABLE Enabled Disabled Enabled 1116 UFM.UFM_4_ENABLE Enabled Ultrasonic Flow Meter 3 - Communications Status Normal Fail 1115 UFM.UFM_4_ENABLE Ultrasonic Flow Meter 3 - Communications Status Normal Fail 1116 UFM.UFM_4_ENABLE Ultrasonic Flow Meter 4 - Communications Status Normal Fail 1117 UFM.UFM_5_ENABLE Ultrasonic Flow Meter 4 - Communications Status Normal Fail 1118 UFM.UFM_5_ENABLE Ultrasonic Flow Meter 5 - Communications Status Normal Fail 1119 UFM.UFM_5_ENABLE Ultrasonic Flow Meter 5 - Communications Status Normal Fail 1119 UFM.UFM_6_ENABLE Ultrasonic Flow Meter 5 - Communications Status Normal Fail 1110 UFM.UFM_6_ENABLE Ultrasonic Flow Meter 6 - Communications Status Normal Fail 1110 UFM.UFM_6_ENABLE Ultrasonic Flow Meter 6 - Communications Status Normal Fail 1120 UFM.UFM_6_ENABLE Ultrasonic Flow Meter 6 - Communications Status Normal Fail 1121 PG_G.GC_1.GC_1.TIMER_EN Disabled/Enabled Disabled Enabled 1122 PG_G.GC_1.GC_2.TIMER_EN Disabled/Enabled Disabled Enabled 1124 PG_G.GC_1.GC_3.TIMER_EN Disabled/Enabled Disabled Enabled 1125 PG_G.GC_1.GC_5.TIMER_EN Disabled/Enabled Disabled Enabled 1126 PG_G.GC_1.GC_5.TIMER_EN Disabled/Enabled Disabled Enabled 1127 PG_G.GC.GC_1.GC_6.TIMER_EN Disabled/Enabled Disabled Enabled 1128 PG_G.GC_1.GC_5.TIMER_EN Disabled/Enabled Disabled Enabled 1129 UFM.UFM_7_COMMSTATUS UFM.UFM_7_ENABLE UFM.UFM_7_ENABLE UFM.UFM_	1108	FC.FC8.RX_SOS_ALRM_ENABLE	Run 8 - Speed of Sound Alarm Enable	Disabled	Enabled
Ultrasonic Flow Meter 2 - Communications Disabled Enabled	1109	UFM.UFM_1_ENABLE		Disabled	Enabled
1111	1110	UFM.UFM_1_COMMSTATUS		Normal	Fail
Ultrasonic Flow Meter 3 - Communications Enabled UPM.UFM 3 ENABLE UPM.UFM 3 COMMSTATUS Ultrasonic Flow Meter 3 - Communications Status Ultrasonic Flow Meter 4 - Communications Enabled Ultrasonic Flow Meter 4 - Communications Ultrasonic Flow Meter 4 - Communications Enabled Ultrasonic Flow Meter 4 - Communications Ultrasonic Flow Meter 5 - Communications Ultrasonic Flow Meter 5 - Communications Ultrasonic Flow Meter 5 - Communications Ultrasonic Flow Meter 5 - Communications Ultrasonic Flow Meter 5 - Communications Ultrasonic Flow Meter 5 - Communications Ultrasonic Flow Meter 6 - Communications Ultrasoni	1111	UFM.UFM_2_ENABLE		Disabled	Enabled
1113	1112	UFM.UFM_2_COMMSTATUS		Normal	Fail
Ultrasonic Flow Meter 3 - Communications Status Normal Fail	1113	UFM.UFM 3 ENABLE		Disabled	Enabled
1115	1114			Normal	Fail
Ultrasonic Flow Meter 5 - Communications Enabled Ultrasonic Flow Meter 5 - Communications Status Ultrasonic Flow Meter 5 - Communications Status Ultrasonic Flow Meter 6 - Communications Ultrasonic Flow Meter 6 - Communications Ultrasonic Flow Meter 6 - Communications Enabled Disabled Enabled Ultrasonic Flow Meter 6 - Communications Enabled Ultrasonic Flow Meter 6 - Communications Enabled Disabled Enabled Ultrasonic Flow Meter 6 - Communications Enabled Disabled Enabled GC Data Set 1 - Scheduled Data Disabled/Enabled Disabled Enabled GC Data Set 2 - Scheduled Data Disabled/Enabled GC Data Set 3 - Scheduled Data Disabled/Enabled Disabled Enabled GC Data Set 3 - Scheduled Data Disabled/Enabled Disabled Enabled GC Data Set 4 - Scheduled Data Disabled/Enabled Disabled Enabled GC Data Set 5 - Scheduled Data Disabled/Enabled Disabled Enabled GC Data Set 5 - Scheduled Data Disabled/Enabled Disabled Enabled GC Data Set 5 - Scheduled Data Disabled/Enabled Disabled Enabled GC Data Set 6 - Scheduled Data Disabled/Enabled Disabled Enabled GC Data Set 7 - Scheduled Data Disabled/Enabled Disabled Enabled Disabled Enabled GC Data Set 7 - Scheduled Data Disabled/Enabled Disabled Enabled GC Data Set 7 - Scheduled Data Disabled/Enabled Disabled Enabled Enabled GC Data Set 7 - Scheduled Data Disabled/Enabled Disabled Enabled Enabled Disabled Enabled Enabled Disabled Enabled Enabled Disabled Enabled Disabled Enabled Disabled Enabled Disabled Enabled Enabled Disabled Enabl	1115	UFM.UFM_4_ENABLE	I -	Disabled	Enabled
1117UFM.UFM_5_ENABLEEnabledDisabledEnabled1118UFM.UFM_5_COMMSTATUSUltrasonic Flow Meter 5 - Communications StatusNormalFail1119UFM.UFM_6_ENABLEEnabledDisabledEnabled1120UFM.UFM_6_COMMSTATUSUltrasonic Flow Meter 6 - Communications StatusNormalFail1121PG_COMMSTATUSUltrasonic Flow Meter 6 - Communications StatusNormalFail1121PG_COMMSTATUSUltrasonic Flow Meter 6 - Communications StatusNormalFail1121PG_CO.GC_1.GC_1.TIMER_ENDisabled/EnabledDisabledEnabled1122PG_GC.GC_1.GC_2.TIMER_ENDisabled/EnabledDisabledEnabled1123PG_GC.GC_1.GC_3.TIMER_ENDisabled/EnabledDisabledEnabled1124PG_GC.GC_1.GC_4.TIMER_ENDisabled/EnabledDisabledEnabled1125PG_GC.GC_1.GC_5.TIMER_ENDisabled/EnabledDisabledEnabled1126PG_GC.GC_1.GC_5.TIMER_ENDisabled/EnabledDisabledEnabled1127PG_GC.GC_1.GC_6.TIMER_ENDisabled/EnabledDisabledEnabled1128PG_GC.GC_1.GC_8.TIMER_ENDisabled/EnabledDisabledEnabled1129UFM.UFM_7_ENABLEDisabled/EnabledDisabledEnabled1131UFM.UFM_7_COMMSTATUSUFM.UFM_7_COMMSTATUSInsabled/EnabledInsabled/Enabled1131UFM.UFM_8_ENABLEInsabled/EnabledInsabled/EnabledInsabled/Enabled	1116	UFM.UFM_4_COMMSTATUS	Ultrasonic Flow Meter 4 - Communications Status	Normal	Fail
Ultrasonic Flow Meter 6 - Communications Enabled UFM.UFM 6 ENABLE Ultrasonic Flow Meter 6 - Communications Status Ultrasonic Flow Meter 6 - Communications Status Normal Fail OC Data Set 1 - Scheduled Data Disabled/Enabled Disabled Enabled Enabled Disabled Enabled Disabled Enabled Disabled Enabled Enabled Disabled Enabled	1117	UFM.UFM_5_ENABLE		Disabled	Enabled
Ultrasonic Flow Meter 6 - Communications Status Normal Fail GC Data Set 1 - Scheduled Data Disabled Enabled GC Data Set 2 - Scheduled Data Disabled Enabled GC Data Set 2 - Scheduled Data Disabled Enabled GC Data Set 3 - Scheduled Data Disabled Enabled GC Data Set 3 - Scheduled Data Disabled Enabled GC Data Set 4 - Scheduled Data Disabled Enabled Fail GC Data Set 3 - Scheduled Data Disabled Enabled GC Data Set 4 - Scheduled Data Disabled Enabled GC Data Set 4 - Scheduled Data Disabled Enabled GC Data Set 5 - Scheduled Data Disabled Enabled GC Data Set 5 - Scheduled Data Disabled Enabled GC Data Set 6 - Scheduled Data Disabled Enabled GC Data Set 6 - Scheduled Data Disabled Enabled GC Data Set 6 - Scheduled Data Disabled Enabled GC Data Set 7 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled		-	Ultrasonic Flow Meter 6 - Communications		
GC Data Set 1 - Scheduled Data Disabled Enabled GC Data Set 2 - Scheduled Data Disabled Enabled GC Data Set 2 - Scheduled Data Disabled Enabled GC Data Set 3 - Scheduled Data Disabled Enabled GC Data Set 3 - Scheduled Data Disabled Enabled GC Data Set 3 - Scheduled Data Disabled Enabled GC Data Set 3 - Scheduled Data Disabled Enabled GC Data Set 4 - Scheduled Data Disabled Enabled GC Data Set 5 - Scheduled Data Disabled/Enabled GC Data Set 5 - Scheduled Data Disabled/Enabled GC Data Set 5 - Scheduled Data Disabled/Enabled GC Data Set 6 - Scheduled Data Disabled Enabled GC Data Set 6 - Scheduled Data Disabled Enabled GC Data Set 7 - Scheduled Data Disabled Enabled GC Data Set 7 - Scheduled Data Disabled Enabled GC Data Set 7 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled Disabled Enabled Disabled Enabled			Enabled		
1121 PG GC.GC 1.GC 1.TIMER EN Disabled/Enabled Disabled Enabled PG GC.GC 1.GC 2.TIMER EN Disabled/Enabled Disabled Disabled Enabled 1122 PG GC.GC 1.GC 2.TIMER EN Disabled/Enabled Disabled Data 1123 PG GC.GC 1.GC 3.TIMER EN Disabled/Enabled Disabled Enabled GC Data Set 3 - Scheduled Data Disabled/Enabled Disabled Enabled GC Data Set 4 - Scheduled Data Disabled/Enabled Disabled Enabled GC Data Set 5 - Scheduled Data Disabled/Enabled Disabled Enabled GC Data Set 6 - Scheduled Data Disabled/Enabled Disabled Enabled GC Data Set 7 - Scheduled Data Disabled Enabled GC Data Set 7 - Scheduled Data Disabled Enabled GC Data Set 7 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled Disabled Enabled Disabled Enabled	1120	UFM.UFM_6_COMMSTATUS		Normal	Fail
1122 PG_GC.GC_1.GC_2.TIMER_EN Disabled/Enabled GC Data Set 3 - Scheduled Data Disabled Enabled GC Data Set 4 - Scheduled Data Disabled Enabled GC Data Set 4 - Scheduled Data Disabled Enabled GC Data Set 5 - Scheduled Data Disabled Enabled GC Data Set 5 - Scheduled Data Disabled Enabled GC Data Set 6 - Scheduled Data Disabled Enabled 1126 PG_GC.GC_1.GC_5.TIMER_EN Disabled/Enabled GC Data Set 6 - Scheduled Data Disabled/Enabled GC Data Set 7 - Scheduled Data Disabled Enabled GC Data Set 7 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled Disabled Enabled 1128 PG_GC.GC_1.GC_8.TIMER_EN Disabled/Enabled Disabled Enabled 1129 UFM.UFM_7_ENABLE 1130 UFM.UFM_7_COMMSTATUS	1121	PG_GC.GC_1.GC_1.TIMER_EN	Disabled/Enabled	Disabled	Enabled
Disabled Disabled Enabled Disabled Enabled Disabled Enabled Disabled Enabled Disabled Enabled Enabled Disabled Enabled Enabled Enabled Disabled Enabled Enable	1122	PG_GC.GC_1.GC_2.TIMER_EN	Disabled/Enabled	Disabled	Enabled
Disabled Disabled Enabled	1123	PG_GC.GC_1.GC_3.TIMER_EN	Disabled/Enabled	Disabled	Enabled
1125 PG_GC.GC_1.GC_5.TIMER_EN Disabled/Enabled Disabled Enabled GC Data Set 6 - Scheduled Data Disabled Enabled GC Data Set 7 - Scheduled Data Disabled Enabled GC Data Set 7 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled GC Data Set 8 - Scheduled Data Disabled Enabled T128 PG_GC.GC_1.GC_8.TIMER_EN Disabled/Enabled T129 UFM.UFM_7_ENABLE T130 UFM.UFM_7_COMMSTATUS T131 UFM.UFM_8_ENABLE	1124	PG_GC.GC_1.GC_4.TIMER_EN	Disabled/Enabled	Disabled	Enabled
1126 PG_GC.GC_1.GC_6.TIMER_EN Disabled/Enabled GC_Data Set 7 - Scheduled Data Disabled Enabled GC_Data Set 8 - Scheduled Data Disabled Enabled GC_Data Set 8 - Scheduled Data Disabled Enabled GC_Data Set 8 - Scheduled Data Disabled Enabled 1129 UFM.UFM_7_ENABLE 1130 UFM.UFM_7_COMMSTATUS 1131 UFM.UFM_8_ENABLE	1125	PG_GC.GC_1.GC_5.TIMER_EN	Disabled/Enabled	Disabled	Enabled
1127 PG_GC.GC_1.GC_7.TIMER_EN Disabled/Enabled Disabled Enabled 1128 PG_GC.GC_1.GC_8.TIMER_EN Disabled/Enabled Disabled Enabled 1129 UFM.UFM_7 ENABLE UFM.UFM_7 COMMSTATUS UFM.UFM_8 ENABLE UFM.UFM_8 ENABLE	1126	PG_GC.GC_1.GC_6.TIMER_EN	Disabled/Enabled	Disabled	Enabled
1128 PG_GC.GC_1.GC_8.TIMER_EN Disabled/Enabled Disabled Enabled 1129 UFM.UFM_7_ENABLE	1127	PG_GC.GC_1.GC_7.TIMER_EN	Disabled/Enabled	Disabled	Enabled
1130 UFM.UFM_7_COMMSTATUS 1131 UFM.UFM_8_ENABLE	1128	PG_GC.GC_1.GC_8.TIMER_EN		Disabled	Enabled
1130 UFM.UFM_7_COMMSTATUS 1131 UFM.UFM_8_ENABLE					
1131 UFM.UFM_8_ENABLE					
1133 PG_GC.GC_1.GC_1.IPMODE GC Data Set 1 - Comm Mode Serial / IP Serial IP			GC Data Set 1 - Comm Mode Serial / IP	Serial	IP

Coil#	Variable	Description	Off State	On State
1134	PG_GC.GC_1.GC_1.USE_FIXED	GC Data Set 1 - Use Fixed or Last Good GC Data	Last Good GC	Use Fixed
1135	PG_GC.GC_1.GC_1.MODE	GC Data Set 1 - Comm Enabled / Disabled	Disabled	Enabled
1136	PG_GC.GC_1.GC_2.IPMODE	GC Data Set 2 - Comm Mode Serial / IP	Serial	IP
1137	PG_GC.GC_1.GC_2.USE_FIXED	GC Data Set 2 - Use Fixed or Last Good GC Data	Last Good GC	Use Fixed
1138	PG_GC.GC_1.GC_2.MODE	GC Data Set 2 - Comm Enabled / Disabled	Disabled	Enabled
1139	PG_GC.GC_1.GC_3.IPMODE	GC Data Set 3 - Comm Mode Serial / IP	Serial Last Good	IP
1140	PG_GC.GC_1.GC_3.USE_FIXED	GC Data Set 3 - Use Fixed or Last Good GC Data	GC GOOD	Use Fixed
1141	PG_GC.GC_1.GC_3.MODE	GC Data Set 3 - Comm Enabled / Disabled	Disabled	Enabled
1142	PG_GC.GC_1.GC_4.IPMODE	GC Data Set 4 - Comm Mode Serial / IP	Serial	IP
1143	PG GC.GC 1.GC 4.USE FIXED	GC Data Set 4 - Use Fixed or Last Good GC Data	Last Good GC	Use Fixed
1144	PG GC.GC 1.GC 4.MODE	GC Data Set 4 - Comm Enabled / Disabled	Disabled	Enabled
			Serial	IP IP
1145	PG_GC.GC_1.GC_5.IPMODE	GC Data Set 5 - Comm Mode Serial / IP	Last Good	
1146	PG_GC.GC_1.GC_5.USE_FIXED	GC Data Set 5 - Use Fixed or Last Good GC Data	GC	Use Fixed
1147	PG_GC.GC_1.GC_5.MODE	GC Data Set 5 - Comm Enabled / Disabled	Disabled	Enabled
1148	PG_GC.GC_1.GC_6.IPMODE	GC Data Set 6 - Comm Mode Serial / IP	Serial Last Good	IP
1149	PG_GC.GC_1.GC_6.USE_FIXED	GC Data Set 6 - Use Fixed or Last Good GC Data	GC	Use Fixed
1150	PG_GC.GC_1.GC_6.MODE	GC Data Set 6 - Comm Enabled / Disabled	Disabled	Enabled
1151	PG_GC.GC_1.GC_7.IPMODE	GC Data Set 7 - Comm Mode Serial / IP	Serial	IP
1152	PG_GC.GC_1.GC_7.USE_FIXED	GC Data Set 7 - Use Fixed or Last Good GC Data	Last Good GC	Use Fixed
1153	PG_GC.GC_1.GC_7.MODE	GC Data Set 7 - Comm Enabled / Disabled	Disabled	Enabled
1154	PG_GC.GC_1.GC_8.IPMODE	GC Data Set 8 - Comm Mode Serial / IP	Serial	IP
1155	PG_GC.GC_1.GC_8.USE_FIXED	GC Data Set 8 - Use Fixed or Last Good GC Data	Last Good GC	Use Fixed
1156	PG_GC.GC_1.GC_8.MODE	GC Data Set 8 - Comm Enabled / Disabled	Disabled	Enabled
1157	MB.Spare			
1158	MB.Spare			
1159	MB.Spare			
1160	MB.Spare			
1161	MB.Spare			
1162	MB.Spare			
1163	MB.Spare			
1164	MB.Spare			
1165	MB.Spare			
1166	MB.Spare			
1167	MB.Spare			
1168	MB.Spare			
1169	RC.RCV_1.BLIND	Remote Control Valve 1 - Limit Switch / Blind Remote Control Valve 1 - Execute Only / Arm and	Limit Switch Arm and	Blind
1170	RC.RCV_1.ONESTEPLOCAL	Execute - Local	Execute	Execute Only
1171	RC.RCV_1.ONESTEPREMOTE	Remote Control Valve 1 - Execute Only / Arm and Execute - Remote	Arm and Execute	Execute Only
1172	RC.RCV_1.ARM_OPEN_REMOTE	Remote Control Valve 1 - Open Control Arm State - Remote	Idle	Armed
1173	RC.RCV_1.EXECUTE_OPEN_REMOTE	Remote Control Valve 1 - Open Control Execute State - Remote	Idle	Execute
1174	RC.RCV_1.ARM_CLOSE_REMOTE	Remote Control Valve 1 - Close Control Arm State - Remote	Idle	Armed
4475	DO DOV. 4 EVECUTE OF OCC. DEMOTE	Remote Control Valve 1 - Close Control Execute	lalla.	Face and a
1175	RC.RCV_1.EXECUTE_CLOSE_REMOTE	State - Remote	Idle	Execute
1176	RC.RCV_1.OPENFAIL	Remote Control Valve 1 - Status - Open	Normal	Fail

Coil#	Variable	Description	Off State	On State
1177	RC.RCV_1.CLOSEFAIL	Remote Control Valve 1 - Status - Close	Normal	Fail
1178	RC.RCV_1.VALVEFAIL	Remote Control Valve 1 - Status - Valve	Normal	Fail
1179	RC.RCV_1.RESETFAIL	Remote Control Valve 1 - Status - Reset	Off	Reset
1180	RC.RCV_2.BLIND	Remote Control Valve 2 - Limit Switch / Blind	Limit Switch	Blind
1181	RC.RCV_2.ONESTEPLOCAL	Remote Control Valve 2 - Execute Only / Arm and Execute - Local	Arm and Execute	Execute Only
1182	RC.RCV_2.ONESTEPREMOTE	Remote Control Valve 2 - Execute Only / Arm and Execute - Remote	Arm and Execute	Execute Only
1183	RC.RCV_2.ARM_OPEN_REMOTE	Remote Control Valve 2 - Open Control Arm State - Remote Remote Control Valve 2 - Open Control Execute	Idle	Armed
1184	RC.RCV_2.EXECUTE_OPEN_REMOTE	State - Remote Remote Control Valve 2 - Close Control Arm State	Idle	Execute
1185	RC.RCV_2.ARM_CLOSE_REMOTE	- Remote Remote Control Valve 2 - Close Control Arm State - Remote Control Valve 2 - Close Control Execute	Idle	Armed
1186	RC.RCV_2.EXECUTE_CLOSE_REMOTE	State - Remote	Idle	Execute
1187	RC.RCV_2.OPENFAIL	Remote Control Valve 2 - Status - Open	Normal	Fail
1188	RC.RCV_2.CLOSEFAIL	Remote Control Valve 2 - Status - Close	Normal	Fail
1189	RC.RCV_2.VALVEFAIL	Remote Control Valve 2 - Status - Valve	Normal	Fail
1190	RC.RCV_2.RESETFAIL	Remote Control Valve 2 - Status - Reset	Off	Reset
1191	RC.RCV_3.BLIND	Remote Control Valve 3 - Limit Switch / Blind	Limit Switch	Blind
1192	RC.RCV_3.ONESTEPLOCAL	Remote Control Valve 3 - Execute Only / Arm and Execute - Local	Arm and Execute	Execute Only
1192	NC.NCV_3.ONESTEPEOCAL	Remote Control Valve 3 - Execute Only / Arm and	Arm and	Execute Only
1193	RC.RCV_3.ONESTEPREMOTE	Execute - Remote Remote Control Valve 3 - Open Control Arm State	Execute	Execute Only
1194	RC.RCV_3.ARM_OPEN_REMOTE	- Remote	Idle	Armed
1195	RC.RCV_3.EXECUTE_OPEN_REMOTE	Remote Control Valve 3 - Open Control Execute State - Remote Remote Control Valve 3 - Close Control Arm State	Idle	Execute
1196	RC.RCV_3.ARM_CLOSE_REMOTE	- Remote	Idle	Armed
1197	RC.RCV_3.EXECUTE_CLOSE_REMOTE	Remote Control Valve 3 - Close Control Execute State - Remote	Idle	Execute
1198	RC.RCV_3.OPENFAIL	Remote Control Valve 3 - Status - Open	Normal	Fail
1199	RC.RCV_3.CLOSEFAIL	Remote Control Valve 3 - Status - Close	Normal	Fail
1200	RC.RCV_3.VALVEFAIL	Remote Control Valve 3 - Status - Valve	Normal	Fail
1201	RC.RCV_3.RESETFAIL	Remote Control Valve 3 - Status - Reset	Off	Reset
1202	RC.RCV_4.BLIND	Remote Control Valve 4 - Limit Switch / Blind Remote Control Valve 4 - Execute Only / Arm and	Limit Switch Arm and	Blind
1203	RC.RCV_4.ONESTEPLOCAL	Execute - Local	Execute	Execute Only
1204	RC.RCV_4.ONESTEPREMOTE	Remote Control Valve 4 - Execute Only / Arm and Execute - Remote	Arm and Execute	Execute Only
1205	RC.RCV 4.ARM OPEN REMOTE	Remote Control Valve 4 - Open Control Arm State - Remote	Idle	Armed
1206	RC.RCV_4.EXECUTE_OPEN_REMOTE	Remote Control Valve 4 - Open Control Execute State - Remote	Idle	Execute
1207	RC.RCV_4.ARM_CLOSE_REMOTE	Remote Control Valve 4 - Close Control Arm State - Remote	Idle	Armed
1208	RC.RCV_4.EXECUTE_CLOSE_REMOTE	Remote Control Valve 4 - Close Control Execute State - Remote	Idle	Execute
1209	RC.RCV_4.OPENFAIL	Remote Control Valve 4 - Status - Open	Normal	Fail
1210	RC.RCV_4.CLOSEFAIL	Remote Control Valve 4 - Status - Close	Normal	Fail
1211	RC.RCV_4.VALVEFAIL	Remote Control Valve 4 - Status - Valve	Normal	Fail
1212	RC.RCV_4.RESETFAIL	Remote Control Valve 4 - Status - Reset	Off	Reset
1213	RC.RCV_5.BLIND	Remote Control Valve 5 - Limit Switch / Blind Remote Control Valve 5 - Execute Only / Arm and	Limit Switch Arm and	Blind
1214	RC.RCV_5.ONESTEPLOCAL	Execute - Local	Execute	Execute Only
1215	RC.RCV_5.ONESTEPREMOTE	Remote Control Valve 5 - Execute Only / Arm and Execute - Remote	Arm and Execute	Execute Only
1216	RC.RCV_5.ARM_OPEN_REMOTE	Remote Control Valve 5 - Open Control Arm State - Remote	Idle	Armed

Remote Control Valve 6 - Execute Only / Arm and Execute Control Remote Control Valve 6 - Open Control Arm State - Remote Control Valve 6 - Open Control Arm State - Remote Control Valve 6 - Open Control Arm State - Remote Control Valve 6 - Open Control Control Arm State - Remote Control Valve 6 - Open Control Control Arm State - Remote Control Valve 6 - Open Control Control Control Valve 6 - Close Control Control Control Valve 6 - Close Control Control Control Valve 6 - Close Control Control Control Valve 6 - Close Control Control Control Valve 6 - Close Control Valve 6 - Close Control Valve 6 - Close Control Valve 6 - Close Control Valve 6 - Close Control Valve 6 - Close Control Valve 6 - Close Control Valve 6 - Close Control Valve 6 - Close Control Valve 6 - Close Control Valve 6 - Close Control Valve 6 - Close Control Valve 6 - Close Control Valve 6 - Close Control Valve 6 - Close Control Valve 7 - Close Control Valve 7 - Close Control Valve 7 - Close Control Valve 7 - Close Control Valve 7 - Close Control Close Control Valve 7 - Close Control Close Close Close Close Close Close Close Clos	0-:1#	Mariable	Pagarintian	Off	On
	COII#	Variable		State	State
1219 RC.RCV_5 ARM_CLOSE_REMOTE Remote Control Valve 5 - Close Control Execute Idle Execute Idle	1217	RC.RCV_5.EXECUTE_OPEN_REMOTE	State - Remote	Idle	Execute
	1218	RC.RCV_5.ARM_CLOSE_REMOTE	- Remote	Idle	Armed
1221 RC.RCV 5.CLOSEFAIL Remote Control Valve 5 - Status - Close Normal Fail	1219	RC.RCV_5.EXECUTE_CLOSE_REMOTE		Idle	Execute
1222 RC.RCV_5.NALVEFAIL Remote Control Valve 5 - Status - Valve Off Reset	1220	RC.RCV_5.OPENFAIL	Remote Control Valve 5 - Status - Open	Normal	Fail
1223 RC.RCV_5.RESETFAIL Remote Control Valve 5 - Status - Reset Off Reset	1221	RC.RCV_5.CLOSEFAIL	Remote Control Valve 5 - Status - Close	Normal	Fail
Remote Control Valve 6 - Limit Switch Blind Carried Valve 6 - Execute Only / Arm and Execute Execute Only Arm and Execute Execute	1222	RC.RCV_5.VALVEFAIL	Remote Control Valve 5 - Status - Valve	Normal	Fail
Remote Control Valve 6 - Execute Only / Arm and Execute Only / Arm and Execute Only / Arm and Execute Only / Arm and Execute - Remote Control Valve 6 - Dep Control Arm State - Remote Control Valve 6 - Open Control Arm State - Remote Control Valve 6 - Open Control Arm State - Remote Control Valve 6 - Open Control Arm State - Remote Control Valve 6 - Open Control Arm State - Remote Control Valve 6 - Open Control Execute - Remote Control Valve 6 - Open Control Arm State - Remote Control Valve 6 - Close Control Arm State - Remote Control Valve 6 - Close Control Arm State - Remote Control Valve 6 - Close Control Arm State - Remote Control Valve 6 - Close Control Execute - Remote Control Valve 6 - Close Control Execute - Remote Control Valve 6 - Close Control Execute - Remote Control Valve 6 - Close Control Execute - Remote Control Valve 6 - Close Control Execute - Remote Control Valve 6 - Close Control Execute - Remote Control Valve 6 - Close Control Execute - Remote Control Valve 6 - Status - Open - Normal - Fail - Remote Control Valve 6 - Status - Close - Normal - Fail - Remote Control Valve 6 - Status - Close - Normal - Fail - Remote Control Valve 6 - Status - Close - Normal - Fail - Remote Control Valve 6 - Status - Valve - Normal - Fail - Remote Control Valve 6 - Status - Valve - Normal - Fail - Remote Control Valve 6 - Status - Remote Control Valve 6 - Status - Remote Control Valve 6 - Status - Remote Control Valve 6 - Status - Remote Control Valve 6 - Status - Remote Control Valve 7 - Close Control Arm State - Remote Control Valve 7 - Close Control Arm State - Remote Control Valve 7 - Close Control Arm State - Remote Control Valve 7 - Close Control Arm State - Remote Control Valve 7 - Close Control Arm State - Remote Control Valve 7 - Close Control Arm State - Remote Control Valve 7 - Status - Open - Normal - Fail - Remote Control Valve 7 - Status - Close - Normal - Fail - Remote Control Valve 7 - Status - Close - Normal - Fail - Remote Control Valve 8 - Execute Only / Arm and - Execute - Remote Control Val	1223	RC.RCV_5.RESETFAIL	Remote Control Valve 5 - Status - Reset	Off	Reset
	1224	RC.RCV_6.BLIND			Blind
Execute Execute Control Valve 6 - Open Control Arm State Famote Control Valve 6 - Open Control Arm State Famote Control Valve 6 - Open Control Arm State Famote Control Valve 6 - Open Control Execute Famote Control Valve 6 - Open Control Arm State Famote Control Valve 6 - Open Control Arm State Famote Control Valve 6 - Close Control Arm State Famote Control Valve 6 - Close Control Arm State Famote Control Valve 6 - Close Control Arm State Famote Control Valve 6 - Close Control Arm State Famote Control Valve 6 - Close Control Execute Famote Control Valve 6 - Close Control Execute Famote Control Valve 6 - Status - Open Normal Fail Fa	1225	RC.RCV_6.ONESTEPLOCAL	Execute - Local	Execute	Execute Only
1227 RC.RCV 6.ARM_OPEN_REMOTE -Remote Control Valve 6 - Open Control Execute Idle Execute	1226	RC.RCV_6.ONESTEPREMOTE	Execute - Remote		Execute Only
1228 RC.RCV_6.EXECUTE_OPEN_REMOTE State - Remote Remote Control Valve 6 - Close Control Arm State Idle Remote Control Valve 6 - Close Control Arm State Idle Remote Control Valve 6 - Close Control Execute Idle Execute Idle	1227	RC.RCV_6.ARM_OPEN_REMOTE	- Remote	Idle	Armed
Remote Control Valve 6 - Close Control Arm State Idle Armed Remote Control Valve 6 - Close Control Execute Idle Execute Remote Control Valve 6 - Status - Open Normal Fail Normal Fail Remote Control Valve 6 - Status - Close Normal Fail Remote Control Valve 6 - Status - Close Normal Fail Remote Control Valve 6 - Status - Close Normal Fail Remote Control Valve 6 - Status - Close Normal Fail Remote Control Valve 6 - Status - Close Normal Fail Remote Control Valve 6 - Status - Close Normal Fail Remote Control Valve 6 - Status - Close Normal Fail Remote Control Valve 6 - Status - Close Normal Fail Remote Control Valve 6 - Status - Close Normal Fail Remote Control Valve 6 - Status - Close Normal Fail Remote Control Valve 6 - Status - Close Normal Remote Control Valve 7 - Limit Switch Switch Switch Switch Remote Control Valve 7 - Execute Close Normal Remote Control Valve 7 - Execute Close Remote Control Valve 7 - Execute Execute Execute Close Remote Control Valve 7 - Execute Close Remote Control Valve 7 - Close Close Remote Control Valve 7 - Close Close Remote Control Valve 7 - Close Control Arm State Remote Control Valve 7 - Close Control Arm State Remote Control Valve 7 - Close Control Arm State Remote Control Valve 7 - Close Control Arm State Remote Control Valve 7 - Close Control Arm State Remote Control Valve 7 - Status - Close Normal Fail Remote Control Valve 7 - Status - Close Normal Fail Remote Control Valve 7 - Status - Close Normal Fail Remote Control Valve 7 - Status - Close Normal Fail Remote Control Valve 7 - Status - Close Normal Fail Remote Control Valve 8 - Status - Close Normal Fail Remote Control Valve 8 - Status - Close Normal Fail Remote Control Valve 8 - Status - Close Remote Remote Control Valve 8 - Status - Close Remote Remote Control Valve 8 - Status - Close Remote Remote Control Valve 8 - Status - Close Remote Remot	1228	RC.RCV 6.EXECUTE OPEN REMOTE		Idle	Execute
Remote Control Valve 6 - Close Control Execute Idle Execute			Remote Control Valve 6 - Close Control Arm State		
1231 RC.RCV 6.OPENFAIL Remote Control Valve 6 - Status - Open Normal Fail 1232 RC.RCV 6.CLOSEFAIL Remote Control Valve 6 - Status - Close Normal Fail 1233 RC.RCV 6.VALVEFAIL Remote Control Valve 6 - Status - Valve Normal Fail 1234 RC.RCV 6.RESETFAIL Remote Control Valve 6 - Status - Valve Ond 1235 RC.RCV 7.BLIND Remote Control Valve 7 - Limit Switch / Blind Limit Switch 1236 RC.RCV 7.DNESTEPLOCAL Remote Control Valve 7 - Execute Only / Arm and 1236 RC.RCV 7.ONESTEPLOCAL Remote Control Valve 7 - Execute Only / Arm and 1237 RC.RCV 7.ONESTEPREMOTE Remote Control Valve 7 - Open Control Arm State 1238 RC.RCV 7.DNESTEPREMOTE Remote Control Valve 7 - Open Control Arm State 1239 RC.RCV 7.EXECUTE OPEN REMOTE Remote Control Valve 7 - Open Control Execute 1240 RC.RCV 7.EXECUTE OPEN REMOTE Remote Control Valve 7 - Close Control Arm State 1241 RC.RCV 7.EXECUTE CLOSE REMOTE Remote Control Valve 7 - Close Control Execute 1242 RC.RCV 7.OPENFAIL Remote Control Valve 7 - Close Control Execute 1243 RC.RCV 7.OPENFAIL Remote Control Valve 7 - Status - Open Normal 1244 RC.RCV 7.CLOSEFAIL Remote Control Valve 7 - Status - Close Normal 1244 RC.RCV 7.VALVEFAIL Remote Control Valve 7 - Status - Valve Normal 1245 RC.RCV 7.RESETFAIL Remote Control Valve 7 - Status - Valve Normal 1246 RC.RCV 8.BLIND Remote Control Valve 7 - Status - Valve Normal 1247 RC.RCV 8.ONESTEPLOCAL Remote Control Valve 8 - Execute Only / Arm and 1248 RC.RCV 8.ONESTEPLOCAL Remote Control Valve 8 - Execute Only / Arm and 1249 RC.RCV 8.ONESTEPLOCAL Remote Control Valve 8 - Close Control Arm State 1250 RC.RCV 8.ARM OPEN REMOTE Remote Control Valve 8 - Close Control Arm State 1260 RC.RCV 8.ARM CLOSE REMOTE Remote Control Valve 8 - Close Control Arm State 1261 RC.RCV 8.ARM CLOSE REMOTE Remote Control Valve 8 - Close Control Arm State 1262 RC.RCV 8.ARM CL			Remote Control Valve 6 - Close Control Execute		
1232 RC.RCV 6.CLOSEFAIL Remote Control Valve 6 - Status - Close Normal Fail 1233 RC.RCV 6.VALVEFAIL Remote Control Valve 6 - Status - Valve Normal Fail 1234 RC.RCV 6.RESETFAIL Remote Control Valve 6 - Status - Valve Off Reset 1235 RC.RCV 7.BLIND Remote Control Valve 7 - Limit Switch / Blind Limit Switch 1236 RC.RCV 7.DRESTEPLOCAL Remote Control Valve 7 - Execute Only / Arm and Execute Remote Control Valve 7 - Execute Only / Arm and Execute Remote Control Valve 7 - Execute Only / Arm and Execute Remote Control Valve 7 - Open Control Arm State Remote Control Valve 7 - Open Control Arm State Remote Control Valve 7 - Open Control Arm State Remote Control Valve 7 - Close Control Execute Remote Remote Control Valve 7 - Close Control Execute Remote Remote Control Valve 7 - Close Control Execute Remote Remote Control Valve 7 - Status - Open Normal Fail					
1233 RC.RCV 6.VALVEFAIL Remote Control Valve 6 - Status - Valve Normal Fail 1234 RC.RCV 6.RESETFAIL Remote Control Valve 6 - Status - Reset Off Reset 1235 RC.RCV 7.BLIND Remote Control Valve 7 - Limit Switch / Blind Limit Switch 1236 RC.RCV 7.ONESTEPLOCAL Remote Control Valve 7 - Execute Only / Arm and 1237 RC.RCV 7.ONESTEPLOCAL Remote Control Valve 7 - Execute Only / Arm and 1238 RC.RCV 7.ONESTEPREMOTE Remote Control Valve 7 - Status - Normal 1239 RC.RCV 7.ARM OPEN REMOTE Remote Control Valve 7 - Open Control Faccute Idle Execute 1240 RC.RCV 7.ARM CLOSE REMOTE Remote Control Valve 7 - Open Control Execute 1241 RC.RCV 7.ARM CLOSE REMOTE Remote Control Valve 7 - Close Control Execute 1242 RC.RCV 7.EXECUTE CLOSE REMOTE Remote Control Valve 7 - Close Control Execute 1242 RC.RCV 7.CLOSEFAIL Remote Control Valve 7 - Status - Close Normal Fail 1243 RC.RCV 7.CLOSEFAIL Remote Control Valve 7 - Status - Close Normal Fail 1244 RC.RCV 7.VALVEFAIL Remote Control Valve 7 - Status - Reset Off Reset 1246 RC.RCV 7.RESETFAIL Remote Control Valve 7 - Status - Reset Off Reset 1246 RC.RCV 8.BLIND Remote Control Valve 8 - Execute Only / Arm and 1247 RC.RCV 8.ONESTEPLOCAL Remote Control Valve 8 - Execute Only / Arm and 1248 RC.RCV 8.ONESTEPLOCAL Remote Control Valve 8 - Execute Only / Arm and 1249 RC.RCV 8.ONESTEPLOCAL Remote Control Valve 8 - Open Control Arm State Execute Only 1249 RC.RCV 8.ARM OPEN REMOTE Remote Control Valve 8 - Open Control Arm State Remote Control Valve 8 - Open Control Arm State Remote Control Valve 8 - Open Control Arm State Remote Control Valve 8 - Open Control Arm State Remote Control Valve 8 - Open Control Arm State Remote Control Valve 8 - Open Control Arm State Remote Control Valve 8 - Open Control Arm State Remote Control Valve 8 - Open Control Arm State Remote Control Valve 8 - Open Control Arm State Remo					
Remote Control Valve 6 - Status - Reset Off Reset		_			
Remote Control Valve 7 - Limit Switch / Blind Arm and Execute Execute Only / Arm and Execute - Local Execute Only / Arm and Execute - Local Execute Only / Arm and Execute Execute Only / Arm and Execute - Remote Control Valve 7 - Execute Only / Arm and Execute - Remote Control Valve 7 - Execute Only / Arm and Execute Only / Arm and Execute - Remote Control Valve 7 - Open Control Arm State - Remote Control Valve 7 - Open Control Arm State - Remote Control Valve 7 - Open Control Execute Idle Armed Arm and Execute Only / Arm and Execute Only Only Arm and Execute Only Only Arm and Execute Only Only Arm and Execute Only Only Arm and Execute Only Only Arm and Execute On		_			
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Remote Control Valve 7 - Open Control Arm State - Remote - Remote Control Valve 7 - Open Control Execute - Remote Control Valve 7 - Open Control Execute - Remote Control Valve 7 - Open Control Execute - Remote Control Valve 7 - Close Control Arm State - Remote Control Valve 7 - Close Control Arm State - Remote Control Valve 7 - Close Control Execute - Remote Control Valve 7 - Close Control Execute - Remote Control Valve 7 - Close Control Execute - Remote Control Valve 7 - Close Control Execute - Remote Control Valve 7 - Close Control Execute - Remote Control Valve 7 - Status - Open - Normal - Fail - Remote Control Valve 7 - Status - Open - Normal - Fail - Remote Control Valve 7 - Status - Close - Normal - Fail - Remote Control Valve 7 - Status - Valve - Remote Control Valve 7 - Status - Valve - Remote Control Valve 7 - Status - Valve - Remote Control Valve 8 - Limit Switch / Blind - Remote Control Valve 8 - Execute Only / Arm and Execute - Remote Control Valve 8 - Execute Only / Arm and Execute - Remote Control Valve 8 - Execute Only / Arm and Execute - Remote Control Valve 8 - Open Control Arm State - Remote Control Valve 8 - Open Control Arm State - Remote Control Valve 8 - Open Control Arm State - Remote Control Valve 8 - Close Control Arm State - Remote Control Valve 8 - Close Control Arm State - Remote Control Valve 8 - Close Control Arm State - Remote Control Valve 8 - Close Control Arm State - Remote Control Valve 8 - Close Control Arm State - Remote Control Valve 8 - Close Control Arm State - Remote Control Valve 8 - Close Control Arm State - Remote Control Valve 8 - Close Control Arm State - Remote Control Valve 8 - Close Control Execute - Remote Control Valve 8 - Close Control Arm State - Remote Control Valve 8 - Close Control Arm State - Remote Control Valve 8 - Close Control Arm State - Remote Control Valve 8 - Close Control Arm State - Remote Control Valve 8 - Close Control Arm State - Remote Control Valve 8 - Close Control Arm State - Remote Control Valve 8 - Close Control Arm State - Remote Contr		_	Remote Control Valve 7 - Execute Only / Arm and	Arm and	j
Remote Control Valve 7 - Open Control Execute Idle Execute Idle			Remote Control Valve 7 - Open Control Arm State		•
Remote Control Valve 7 - Close Control Arm State -Remote		Remote Control Valve 7 - Open Control Execute			
Remote Control Valve 7 - Close Control Execute State - Remote Idle Execute Idle Execute			Remote Control Valve 7 - Close Control Arm State		
Remote Control Valve 7 - Status - Open Normal Fail			Remote Control Valve 7 - Close Control Execute		
1243RC.RCV 7.CLOSEFAILRemote Control Valve 7 - Status - CloseNormalFail1244RC.RCV 7.VALVEFAILRemote Control Valve 7 - Status - ValveNormalFail1245RC.RCV 7.RESETFAILRemote Control Valve 7 - Status - ResetOffReset1246RC.RCV 8.BLINDRemote Control Valve 8 - Limit Switch / BlindLimit SwitchBlind1247RC.RCV 8.ONESTEPLOCALRemote Control Valve 8 - Execute Only / Arm and ExecuteExecute Only1248RC.RCV 8.ONESTEPREMOTERemote Control Valve 8 - Execute Only / Arm and ExecuteExecute Only1249RC.RCV 8.ARM OPEN REMOTERemote Control Valve 8 - Open Control Arm State - RemoteIdleArmed1250RC.RCV 8.EXECUTE OPEN REMOTERemote Control Valve 8 - Close Control Arm State - Remote Control Valve 8 - Close Control Arm State - Remote Control Valve 8 - Close Control Arm State - Remote Control Valve 8 - Close Control ExecuteIdleExecute1251RC.RCV 8.ARM CLOSE REMOTERemote Control Valve 8 - Close Control Execute - Remote Control Valve 8 - Close Control ExecuteIdleExecute1252RC.RCV 8.EXECUTE CLOSE REMOTERemote Control Valve 8 - Status - OpenNormalFail1254RC.RCV 8.CLOSEFAILRemote Control Valve 8 - Status - CloseNormalFail1255RC.RCV 8.VALVEFAILRemote Control Valve 8 - Status - ValveNormalFail					
1244RC.RCV_7.VALVEFAILRemote Control Valve 7 - Status - ValveNormalFail1245RC.RCV_7.RESETFAILRemote Control Valve 7 - Status - ResetOffReset1246RC.RCV_8.BLINDRemote Control Valve 8 - Limit Switch / BlindLimit SwitchBlind1247RC.RCV_8.ONESTEPLOCALRemote Control Valve 8 - Execute Only / Arm and Execute - LocalArm and Execute - Control Valve 8 - Execute Only / Arm and Execute - RemoteExecute Only1248RC.RCV_8.ONESTEPREMOTERemote Control Valve 8 - Open Control Arm State - RemoteIdleArmed1249RC.RCV_8.ARM_OPEN_REMOTERemote Control Valve 8 - Open Control ExecuteIdleArmed1250RC.RCV_8.EXECUTE_OPEN_REMOTERemote Control Valve 8 - Close Control Arm State - RemoteIdleExecute1251RC.RCV_8.ARM_CLOSE_REMOTERemote Control Valve 8 - Close Control ExecuteIdleArmed1252RC.RCV_8.EXECUTE_CLOSE_REMOTERemote Control Valve 8 - Close Control ExecuteIdleExecute1253RC.RCV_8.OPENFAILRemote Control Valve 8 - Status - OpenNormalFail1254RC.RCV_8.CLOSEFAILRemote Control Valve 8 - Status - CloseNormalFail1255RC.RCV_8.VALVEFAILRemote Control Valve 8 - Status - ValveNormalFail					
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RC.RCV_8.BLIND Remote Control Valve 8 - Limit Switch / Blind Remote Control Valve 8 - Execute Only / Arm and Exec					
Remote Control Valve 8 - Execute Only / Arm and Execute Only / Arm and Execute Only / Arm and Execute Only / Arm and Execute Only / Arm and Execute Only / Arm and Execute Only / Arm and Execute Only / Arm and Execute Only / Arm and Execute Only / Arm and Execute Only / Arm and Execute - Remote Ontrol Valve 8 - Open Control Arm State - Remote Ontrol Valve 8 - Open Control Execute Idle Execute Only / Arm and Exe		_			
Remote Control Valve 8 - Execute Only / Arm and Execute Only / Arm and Execute - Remote Execute Only / Arm and Execute Only / Arm and Execute - Remote Execute Only Remote Control Valve 8 - Open Control Arm State - Remote Only Valve 8 - Open Control Execute Idle Execute Only Remote Control Valve 8 - Open Control Execute State - Remote Control Valve 8 - Close Control Arm State - Remote Control Valve 8 - Close Control Arm State - Remote Ontrol Valve 8 - Close Control Arm State - Remote Control Valve 8 - Close Control Execute Idle Execute Remote Control Valve 8 - Close Control Execute Idle Execute State - Remote Idle Execute State - Remote Control Valve 8 - Status - Open Normal Fail Remote Control Valve 8 - Status - Close Normal Fail Remote Control Valve 8 - Status - Valve Normal Fail Remote Control Valve 8 - Status - Valve Normal Fail		-	Remote Control Valve 8 - Execute Only / Arm and	Arm and	
Remote Control Valve 8 - Open Control Arm State - Remote - Remote Control Valve 8 - Open Control Arm State - Remote Control Valve 8 - Open Control Execute - Remote Control Valve 8 - Open Control Execute - Remote Control Valve 8 - Close Control Arm State - Remote Control Valve 8 - Close Control Arm State - Remote Control Valve 8 - Close Control Arm State - Remote Control Valve 8 - Close Control Execute - Remote Control Valve 8 - Close Control Execute - Remote Control Valve 8 - Close Control Execute - Remote Control Valve 8 - Status - Open - Remote Control Valve 8 - Status - Open - Normal - Fail - Remote Control Valve 8 - Status - Close - Remote Control Valve 8 - Status - Close - Remote Control Valve 8 - Status - Valve - Remote Control Valve 8 - Status - Valve - Remote Control Valve 8 - Status - Valve - Remote Control Valve 8 - Status - Valve - Remote Control Valve 8 - Status - Valve - Remote Control Valve 8 - Status - Valve - Remote Control Valve 8 - Status - Valve - Remote Control Valve 8 - Status - Valve - Remote Control Valve 8 - Status - Valve - Remote Control Valve 8 - Status - Valve - Remote Control Valve 8 - Status - Valve - Remote Control Valve 8 - Status - Valve - Remote Control Valve 8 - Status - Valve			Remote Control Valve 8 - Execute Only / Arm and	Arm and	j
Remote Control Valve 8 - Open Control Execute State - Remote 1251 RC.RCV 8.ARM_CLOSE_REMOTE Remote Control Valve 8 - Close Control Arm State - Remote Control Valve 8 - Close Control Arm State - Remote Control Valve 8 - Close Control Execute Remote Control Valve 8 - Close Control Execute State - Remote 1252 RC.RCV 8.EXECUTE_CLOSE_REMOTE Remote Control Valve 8 - Status - Open 1253 RC.RCV_8.OPENFAIL Remote Control Valve 8 - Status - Close 1254 RC.RCV_8.CLOSEFAIL Remote Control Valve 8 - Status - Close Normal Remote Control Valve 8 - Status - Valve Normal Fail		-	Remote Control Valve 8 - Open Control Arm State		•
Remote Control Valve 8 - Close Control Arm State - Remote - Remote Control Valve 8 - Close Control Arm State - Remote - Remote Control Valve 8 - Close Control Execute - Remote Control Valve 8 - Close Control Execute - Remote Control Valve 8 - Status - Open - Remote Control Valve 8 - Status - Open - Remote Control Valve 8 - Status - Close - Remote Control Valve 8 - Status - Close - Remote Control Valve 8 - Status - Close - Remote Control Valve 8 - Status - Close - Remote Control Valve 8 - Status - Valve - Remote Control Valve 8 - Status - Valve - Remote Control Valve 8 - Status - Valve - Remote Control Valve 8 - Status - Valve - Remote Control Valve 8 - Status - Valve - Remote Control Valve 8 - Status - Valve - Remote Control Valve 8 - Status - Valve - Remote Control Valve 8 - Status - Valve - Remote Control Valve 8 - Status - Valve - Remote Control Valve 8 - Status - Valve - Remote Control Valve 8 - Status - Valve - Remote Control Valve 8 - Status - Valve - Remote Control Valve 8 - Status - Valve - Remote Control Valve 8 - Status - Valve - Remote Control Valve 8 - Status - Valve - Remote Control Valve 8 - Status - Valve - Remote Control Valve 8 - Status - Valve			Remote Control Valve 8 - Open Control Execute		
Remote Control Valve 8 - Close Control Execute Idle Execute			Remote Control Valve 8 - Close Control Arm State		
1253RC.RCV_8.OPENFAILRemote Control Valve 8 - Status - OpenNormalFail1254RC.RCV_8.CLOSEFAILRemote Control Valve 8 - Status - CloseNormalFail1255RC.RCV_8.VALVEFAILRemote Control Valve 8 - Status - ValveNormalFail			Remote Control Valve 8 - Close Control Execute		
1254 RC.RCV_8.CLOSEFAIL Remote Control Valve 8 - Status - Close Normal Fail 1255 RC.RCV_8.VALVEFAIL Remote Control Valve 8 - Status - Valve Normal Fail					
1255 RC.RCV_8.VALVEFAIL Remote Control Valve 8 - Status - Valve Normal Fail		_			1
		_			
	1256	RC.RCV 8.RESETFAIL	Remote Control Valve 8 - Status - Valve	Off	Reset

Coil#	Variable	Description	Off State	On State
1257	RC.RCV 9.BLIND	Remote Control Valve 9 - Limit Switch / Blind	Limit Switch	Blind
1231	NO.NOV_3.DEIND	Remote Control Valve 9 - Execute Only / Arm and	Arm and	Dillia
1258	RC.RCV_9.ONESTEPLOCAL	Execute - Local	Execute	Execute Only
1259	RC.RCV_9.ONESTEPREMOTE	Remote Control Valve 9 - Execute Only / Arm and Execute - Remote Remote Control Valve 9 - Open Control Arm State	Arm and Execute	Execute Only
1260	RC.RCV 9.ARM OPEN REMOTE	- Remote	Idle	Armed
1261	RC.RCV_9.EXECUTE_OPEN_REMOTE	Remote Control Valve 9 - Open Control Execute State - Remote	Idle	Execute
1262	RC.RCV_9.ARM_CLOSE_REMOTE	Remote Control Valve 9 - Close Control Arm State - Remote	Idle	Armed
1263	RC.RCV 9.EXECUTE CLOSE REMOTE	Remote Control Valve 9 - Close Control Execute State - Remote	Idle	Execute
1264	RC.RCV 9.OPENFAIL	Remote Control Valve 9 - Status - Open	Normal	Fail
1265	RC.RCV 9.CLOSEFAIL	Remote Control Valve 9 - Status - Close	Normal	Fail
1266	RC.RCV 9.VALVEFAIL	Remote Control Valve 9 - Status - Valve	Normal	Fail
1267	RC.RCV 9.RESETFAIL	Remote Control Valve 9 - Status - Reset	Off	Reset
1268	RC.RCV 10.BLIND	Remote Control Valve 10 - Limit Switch / Blind	Limit Switch	Blind
1200	NO.NOV_10.DEIND	Remote Control Valve 10 - Execute Only / Arm	Arm and	Billia
1269	RC.RCV_10.ONESTEPLOCAL	and Execute - Local	Execute	Execute Only
1270	RC.RCV_10.ONESTEPREMOTE	Remote Control Valve 10 - Execute Only / Arm and Execute - Remote Remote Control Valve 10 - Open Control Arm	Arm and Execute	Execute Only
1271	RC.RCV_10.ARM_OPEN_REMOTE	State - Remote Remote Control Valve 10 - Open Control Arm State - Remote Remote Control Valve 10 - Open Control Execute	Idle	Armed
1272	RC.RCV_10.EXECUTE_OPEN_REMOTE	State - Remote	Idle	Execute
1273	RC.RCV_10.ARM_CLOSE_REMOTE	Remote Control Valve 10 - Close Control Arm State - Remote	Idle	Armed
1274	RC.RCV 10.EXECUTE CLOSE REMOTE	Remote Control Valve 10 - Close Control Execute State - Remote	Idle	Execute
1275	RC.RCV 10.OPENFAIL	Remote Control Valve 10 - Status - Open	Normal	Fail
1276	RC.RCV_10.CLOSEFAIL	Remote Control Valve 10 - Status - Close	Normal	Fail
1277	RC.RCV 10.VALVEFAIL	Remote Control Valve 10 - Status - Valve	Normal	Fail
1278	RC.RCV 10.RESETFAIL	Remote Control Valve 10 - Status - Reset	Off	Reset
1279	RC.RCV 11.BLIND	Remote Control Valve 11 - Limit Switch / Blind	Limit Switch	Blind
1280	RC.RCV 11.ONESTEPLOCAL	Remote Control Valve 11 - Execute Only / Arm and Execute - Local	Arm and Execute	Execute Only
		Remote Control Valve 11 - Execute Only / Arm	Arm and	
1281	RC.RCV_11.ONESTEPREMOTE	and Execute - Remote Remote Control Valve 11 - Open Control Arm	Execute	Execute Only
1282	RC.RCV_11.ARM_OPEN_REMOTE	State - Remote Remote Control Valve 11 - Open Control Execute	Idle	Armed
1283	RC.RCV_11.EXECUTE_OPEN_REMOTE	State - Remote Remote Control Valve 11 - Close Control Arm	Idle	Execute
1284	RC.RCV_11.ARM_CLOSE_REMOTE	State - Remote	Idle	Armed
1285	RC.RCV_11.EXECUTE_CLOSE_REMOTE	Remote Control Valve 11 - Close Control Execute State - Remote	Idle	Execute
1286	RC.RCV_11.OPENFAIL	Remote Control Valve 11 - Status - Open	Normal	Fail
1287	RC.RCV_11.CLOSEFAIL	Remote Control Valve 11 - Status - Close	Normal	Fail
1288	RC.RCV_11.VALVEFAIL	Remote Control Valve 11 - Status - Valve	Normal	Fail
1289	RC.RCV_11.RESETFAIL	Remote Control Valve 11 - Status - Reset	Off	Reset
1290	RC.RCV_12.BLIND	Remote Control Valve 12 - Limit Switch / Blind	Limit Switch	Blind
1291	RC.RCV_12.ONESTEPLOCAL	Remote Control Valve 12 - Execute Only / Arm and Execute - Local	Arm and Execute	Execute Only
1292	RC.RCV_12.ONESTEPREMOTE	Remote Control Valve 12 - Execute Only / Arm and Execute - Remote Remote Control Valve 12 - Open Control Arm	Arm and Execute	Execute Only
1293	RC.RCV_12.ARM_OPEN_REMOTE	State - Remote	Idle	Armed
1294	RC.RCV_12.EXECUTE_OPEN_REMOTE	Remote Control Valve 12 - Open Control Execute State - Remote	Idle	Execute
1295	RC.RCV_12.ARM_CLOSE_REMOTE	Remote Control Valve 12 - Close Control Arm State - Remote	Idle	Armed

Coil#	Variable	Description	Off State	On State
		Remote Control Valve 12 - Close Control Execute		
1296	RC.RCV_12.EXECUTE_CLOSE_REMOTE	State - Remote	Idle Normal	Execute Fail
1297 1298	RC.RCV_12.OPENFAIL RC.RCV 12.CLOSEFAIL	Remote Control Valve 12 - Status - Open Remote Control Valve 12 - Status - Close	Normal	Fail
1299	RC.RCV 12.VALVEFAIL	Remote Control Valve 12 - Status - Close Remote Control Valve 12 - Status - Valve	Normal	Fail
1300	RC.RCV 12.RESETFAIL	Remote Control Valve 12 - Status - Reset	Off	Reset
1301	@GV. P1 IGNORE ECHO	Comm Port 1 - Ignore Echo	Off	Ignore Echo
1302	@GVP1_DIAL_PORT	Comm Port 1 - Enable dialing from this port - BSAP Slave Only	Off	Dial Enabled
1303	@GVP1_AUTO_DTR	Comm Port 1 - Enable Auto DTR set on this port - BSAP Slave Only	Off	Auto DTR Enabled
1304	@GVP1_TS_DIS	Comm Port 1 - Time Synch Disabled through this port	Off	Time Synch Disabled
1305	@GVP1_TS_FORCE	Comm Port 1 - Force a Time Synch to be sent to this port - BSAP Slave Only	Off	Time Synch Forced
1306	@GV. P1_NRT_DIS	Comm Port 1 - Node Routing Table Disabled through this port - BSAP Slave Only	Off	Node Routing Table Disabled
1307	@GV. P1 ALM DIS	Comm Port 1 - Disable alarms being reported through this port - BSAP Slave Only	Alarms will be reported	Alarms will be disabled
1308	@GV. P1_IMM_DIS	Comm Port 1 - Disable Immediate Response Mode on this port - BSAP Slave Only	Immediate Response Mode Enabled	Immediate Response Mode Disabled
1309	@GVP1_IDLE_POLL	Comm Port 1 - Enable Idle Polling on this port - BSAP Master Only	Idle Polling Disabled	Idle Polling Enabled
1310	@GVP2_IGNORE_ECHO	Comm Port 2 - Ignore Echo	Off	Ignore Echo
1311	@GVP2_DIAL_PORT	Comm Port 2 - Enable dialing from this port - BSAP Slave Only	Off	Dial Enabled
1312	@GVP2_AUTO_DTR	Comm Port 2 - Enable Auto DTR set on this port - BSAP Slave Only	Off	Auto DTR Enabled
1313	@GVP2_TS_DIS	Comm Port 2 - Time Synch Disabled through this port	Off	Time Synch Disabled
1314	@GVP2_TS_FORCE	Comm Port 2 - Force a Time Synch to be sent to this port - BSAP Slave Only	Off	Time Synch Forced Node
1315	@GVP2_NRT_DIS	Comm Port 2 - Node Routing Table Disabled through this port - BSAP Slave Only	Off	Routing Table Disabled
1316	@GV. P2 ALM DIS	Comm Port 2 - Disable alarms being reported through this port - BSAP Slave Only	Alarms will be reported	Alarms will be disabled
1317	@GV. P2 IMM DIS	Comm Port 2 - Disable Immediate Response Mode on this port - BSAP Slave Only	Immediate Response Mode Enabled	Immediate Response Mode Disabled
		Comm Port 2 - Enable Idle Polling on this port -	Idle Polling	Idle Polling
1318 1319	@GVP2_IDLE_POLL @GVP3_IGNORE_ECHO	BSAP Master Only Comm Port 3 - Ignore Echo	Disabled Off	Enabled Ignore Echo
1320	@GV. P3 DIAL PORT	Comm Port 3 - Ignore Ecro Comm Port 3 - Enable dialing from this port - BSAP Slave Only	Off	Dial Enabled
1321	@GV. P3_AUTO_DTR	Comm Port 3 - Enable Auto DTR set on this port - BSAP Slave Only	Off	Auto DTR Enabled
1322	@GVP3_TS_DIS	Comm Port 3 - Time Synch Disabled through this port	Off	Time Synch Disabled
1323	@GVP3_TS_FORCE	Comm Port 3 - Force a Time Synch to be sent to this port - BSAP Slave Only	Off	Time Synch Forced
1324	@GV_P3_NRT_DIS	Comm Port 3 - Node Routing Table Disabled through this port - BSAP Slave Only	Off	Node Routing Table Disabled
		Comm Port 3 - Disable alarms being reported	Alarms will	Alarms will
1325	@GVP3_ALM_DIS	through this port - BSAP Slave Only	be reported Immediate Response	be disabled Immediate Response
1326	@GVP3_IMM_DIS	Comm Port 3 - Disable Immediate Response Mode on this port - BSAP Slave Only	Mode Enabled	Mode Disabled

			Off	On
Coil#	Variable	Description Comm Port 3 - Enable Idle Polling on this port -	State Idle Polling	State Idle Polling
1327	@GVP3_IDLE_POLL	BSAP Master Only	Disabled	Enabled
1328	@GVP4_IGNORE_ECHO	Comm Port 4 - Ignore Echo Comm Port 4 - Enable dialing from this port -	Off	Ignore Echo
1329	@GVP4_DIAL_PORT	BSAP Slave Only	Off	Dial Enabled
1330	@GV. P4 AUTO DTR	Comm Port 4 - Enable Auto DTR set on this port - BSAP Slave Only	Off	Auto DTR Enabled
1331		Comm Port 4 - Time Synch Disabled through this port	Off	Time Synch Disabled
	@GVP4_TS_DIS	Comm Port 4 - Force a Time Synch to be sent to		Time Synch
1332	@GVP4_TS_FORCE	this port - BSAP Slave Only	Off	Forced Node
1333	@GVP4_NRT_DIS	Comm Port 4 - Node Routing Table Disabled through this port - BSAP Slave Only Comm Port 4 - Disable alarms being reported	Off Alarms will	Routing Table Disabled Alarms will
1334	@GVP4_ALM_DIS	through this port - BSAP Slave Only	be reported	be disabled
1335	@GV. P4 IMM DIS	Comm Port 4 - Disable Immediate Response Mode on this port - BSAP Slave Only	Immediate Response Mode Enabled	Immediate Response Mode Disabled
		Comm Port 4 - Enable Idle Polling on this port -	Idle Polling	Idle Polling
1336	@GV_P4_IDLE_POLL	BSAP Master Only	Disabled Off	Enabled
1337	@GVP5_IGNORE_ECHO	Comm Port 5 - Ignore Echo Comm Port 5 - Enable dialing from this port -	Oll	Ignore Echo
1338	@GVP5_DIAL_PORT	BSAP Slave Only Comm Port 5 - Enable Auto DTR set on this port -	Off	Dial Enabled Auto DTR
1339	@GVP5_AUTO_DTR	BSAP Slave Only	Off	Enabled
1340	@GVP5_TS_DIS	Comm Port 5 - Time Synch Disabled through this port	Off	Time Synch Disabled
1341	@GV. P5 TS FORCE	Comm Port 5 - Force a Time Synch to be sent to this port - BSAP Slave Only	Off	Time Synch Forced
1342	@GVP5_NRT_DIS	Comm Port 5 - Node Routing Table Disabled through this port - BSAP Slave Only Comm Port 5 - Disable alarms being reported	Off Alarms will	Node Routing Table Disabled Alarms will
1343	@GVP5_ALM_DIS	through this port - BSAP Slave Only	be reported Immediate	be disabled Immediate
1344	@GVP5_IMM_DIS	Comm Port 5 - Disable Immediate Response Mode on this port - BSAP Slave Only Comm Port 5 - Enable Idle Polling on this port -	Response Mode Enabled Idle Polling	Response Mode Disabled Idle Polling
1345	@GVP5_IDLE_POLL	BSAP Master Only	Disabled	Enabled
1346	@GVP6_IGNORE_ECHO	Comm Port 6 - Ignore Echo Comm Port 6 - Enable dialing from this port -	Off	Ignore Echo
1347	@GVP6_DIAL_PORT	BSAP Slave Only	Off	Dial Enabled
1348	@GVP6_AUTO_DTR	Comm Port 6 - Enable Auto DTR set on this port - BSAP Slave Only	Off	Auto DTR Enabled
1349	@GV. P6_TS_DIS	Comm Port 6 - Time Synch Disabled through this port	Off	Time Synch Disabled
1350	@GV. P6 TS FORCE	Comm Port 6 - Force a Time Synch to be sent to this port - BSAP Slave Only	Off	Time Synch Forced
1351	@GV. P6_NRT_DIS	Comm Port 6 - Node Routing Table Disabled through this port - BSAP Slave Only	Off	Node Routing Table Disabled
1352	@GV. P6 ALM DIS	Comm Port 6 - Disable alarms being reported through this port - BSAP Slave Only	Alarms will be reported	Alarms will be disabled
1353	@GVP6_IMM_DIS	Comm Port 6 - Disable Immediate Response Mode on this port - BSAP Slave Only Comm Port 6 - Enable Idle Polling on this port -	Immediate Response Mode Enabled Idle Polling	Immediate Response Mode Disabled Idle Polling
1354	@GVP6_IDLE_POLL	BSAP Master Only	Disabled	Enabled
1355	@GVP7_IGNORE_ECHO	Comm Port 7 - Ignore Echo	Off	Ignore Echo
1356	@GVP7_DIAL_PORT	Comm Port 7 - Enable dialing from this port - BSAP Slave Only	Off	Dial Enabled

			Off	On
Coil#	Variable	Description Comm Port 7 - Enable Auto DTR set on this port -	State	State Auto DTR
1357	@GVP7_AUTO_DTR	BSAP Slave Only	Off	Enabled
1358	@GV. P7 TS DIS	Comm Port 7 - Time Synch Disabled through this port	Off	Time Synch Disabled
1336		Comm Port 7 - Force a Time Synch to be sent to	Oii	Time Synch
1359	@GVP7_TS_FORCE	this port - BSAP Slave Only	Off	Forced
				Node Routing
4000	COV D7 NDT DIO	Comm Port 7 - Node Routing Table Disabled	0"	Table
1360	@GVP7_NRT_DIS	through this port - BSAP Slave Only Comm Port 7 - Disable alarms being reported	Off Alarms will	Disabled Alarms will
1361	@GVP7_ALM_DIS	through this port - BSAP Slave Only	be reported	be disabled
			Immediate Response	Immediate Response
1000	0.01/ 5- 0.01 510	Comm Port 7 - Disable Immediate Response	Mode	Mode
1362	@GVP7_IMM_DIS	Mode on this port - BSAP Slave Only Comm Port 7 - Enable Idle Polling on this port -	Enabled Idle Polling	Disabled Idle Polling
1363	@GVP7_IDLE_POLL	BSAP Master Only	Disabled	Enabled
1364	@GVP8_IGNORE_ECHO	Comm Port 8 - Ignore Echo	Off	Ignore Echo
1365	@GV. P8 DIAL PORT	Comm Port 8 - Enable dialing from this port - BSAP Slave Only	Off	Dial Enabled
		Comm Port 8 - Enable Auto DTR set on this port -		Auto DTR
1366	@GVP8_AUTO_DTR	BSAP Slave Only Comm Port 8 - Time Synch Disabled through this	Off	Enabled Time Synch
1367	@GVP8_TS_DIS	port	Off	Disabled
1368	@GV. P8 TS FORCE	Comm Port 8 - Force a Time Synch to be sent to this port - BSAP Slave Only	Off	Time Synch Forced
1000		une port Born enave erny	0	Node
		Comm Port 8 - Node Routing Table Disabled		Routing Table
1369	@GVP8_NRT_DIS	through this port - BSAP Slave Only	Off	Disabled
1370	@GV. P8 ALM DIS	Comm Port 8 - Disable alarms being reported through this port - BSAP Slave Only	Alarms will be reported	Alarms will be disabled
1070	WOVI O_ALM_BIO	through this port - BOAL Stave Only	Immediate	Immediate
		Comm Port 8 - Disable Immediate Response	Response Mode	Response Mode
1371	@GVP8_IMM_DIS	Mode on this port - BSAP Slave Only	Enabled	Disabled
1372	@GV. P8 IDLE POLL	Comm Port 8 - Enable Idle Polling on this port - BSAP Master Only	Idle Polling Disabled	Idle Polling Enabled
1373	@GV. P9 IGNORE ECHO	Comm Port 9 - Ignore Echo	Off	Ignore Echo
	 	Comm Port 9 - Enable dialing from this port -		
1374	@GVP9_DIAL_PORT	BSAP Slave Only Comm Port 9 - Enable Auto DTR set on this port -	Off	Dial Enabled Auto DTR
1375	@GVP9_AUTO_DTR	BSAP Slave Only	Off	Enabled
1376	@GV. P9 TS DIS	Comm Port 9 - Time Synch Disabled through this port	Off	Time Synch Disabled
	 	Comm Port 9 - Force a Time Synch to be sent to		Time Synch
1377	@GVP9_TS_FORCE	this port - BSAP Slave Only	Off	Forced Node
				Routing
1378	@GV. P9 NRT DIS	Comm Port 9 - Node Routing Table Disabled through this port - BSAP Slave Only	Off	Table Disabled
		Comm Port 9 - Disable alarms being reported	Alarms will	Alarms will
1379	@GVP9_ALM_DIS	through this port - BSAP Slave Only	be reported Immediate	be disabled Immediate
			Response	Response
1380	@GV. P9 IMM DIS	Comm Port 9 - Disable Immediate Response Mode on this port - BSAP Slave Only	Mode Enabled	Mode Disabled
		Comm Port 9 - Enable Idle Polling on this port -	Idle Polling	Idle Polling
1381	@GVP9_IDLE_POLL	BSAP Master Only	Disabled	Enabled
1382	@GVP10_IGNORE_ECHO	Comm Port 10 - Ignore Echo Comm Port 10 - Enable dialing from this port -	Off	Ignore Echo
1383	@GVP10_DIAL_PORT	BSAP Slave Only	Off	Dial Enabled
1384	@GV. P10 AUTO DTR	Comm Port 10 - Enable Auto DTR set on this port - BSAP Slave Only	Off	Auto DTR Enabled
		Comm Port 10 - Time Synch Disabled through this		Time Synch
1385	@GVP10_TS_DIS	port	Off	Disabled
1386	@GVP10_TS_FORCE	Comm Port 10 - Force a Time Synch to be sent to	Off	Time Synch

			Off	On
Coil#	Variable	Description	State	State
		this port - BSAP Slave Only		Forced
				Node Routing
		Comm Port 10 - Node Routing Table Disabled		Table
1387	@GVP10_NRT_DIS	through this port - BSAP Slave Only	Off	Disabled
1388	@GV. P10 ALM DIS	Comm Port 10 - Disable alarms being reported through this port - BSAP Slave Only	Alarms will be reported	Alarms will be disabled
	<u> </u>	among: and post Dorin Clave Only	Immediate	Immediate
		Comm Port 10 - Disable Immediate Response	Response Mode	Response Mode
1389	@GV. P10 IMM DIS	Mode on this port - BSAP Slave Only	Enabled	Disabled
		Comm Port 10 - Enable Idle Polling on this port -	Idle Polling	Idle Polling
1390	@GVP10_IDLE_POLL	BSAP Master Only	Disabled	Enabled
1391	@GVP11_IGNORE_ECHO	Comm Port 11 - Ignore Echo Comm Port 11 - Enable dialing from this port -	Off	Ignore Echo
1392	@GVP11_DIAL_PORT	BSAP Slave Only	Off	Dial Enabled
1202		Comm Port 11 - Enable Auto DTR set on this port	Off	Auto DTR
1393	@GVP11_AUTO_DTR	- BSAP Slave Only Comm Port 11 - Time Synch Disabled through this	Off	Enabled Time Synch
1394	@GVP11_TS_DIS	port	Off	Disabled
1395	@GV. P11 TS FORCE	Comm Port 11 - Force a Time Synch to be sent to this port - BSAP Slave Only	Off	Time Synch Forced
1080	WOV. I II IO I ONCE	tills port - boni olave Offiy	Jii	Node
		Commo Dant 44 - Noda Dantino Tabla Bisabla		Routing
1396	@GV. P11 NRT DIS	Comm Port 11 - Node Routing Table Disabled through this port - BSAP Slave Only	Off	Table Disabled
		Comm Port 11 - Disable alarms being reported	Alarms will	Alarms will
1397	@GVP11_ALM_DIS	through this port - BSAP Slave Only	be reported Immediate	be disabled Immediate
			Response	Response
4000	OCV D44 IMM D10	Comm Port 11 - Disable Immediate Response	Mode	Mode
1398	@GVP11_IMM_DIS	Mode on this port - BSAP Slave Only Comm Port 11 - Enable Idle Polling on this port -	Enabled Idle Polling	Disabled Idle Polling
1399	@GVP11_IDLE_POLL	BSAP Master Only	Disabled	Enabled
1400	IO_1.HWDIs_1.HWDI_1	HWDI,RCV 1 Open Limit	Off	On
1401	IO_1.HWDIs_1.HWDI_2	HWDI,RCV 1 Close Limit	Off	On
1402	IO_1.HWDIs_1.HWDI_3	HWDI,RCV 2 Open Limit	Off	On
1403	IO_1.HWDIs_1.HWDI_4	HWDI,RCV 2 Close Limit	Off	On
1404	IO_1.HWDIs_1.HWDI_5	HWDI,RCV 3 Open Limit	Off	On
1405	IO_1.HWDIs_1.HWDI_6	HWDI,RCV 3 Close Limit	Off	On
1406	IO_1.HWDIs_1.HWDI_7	HWDI,RCV 4 Open Limit	Off	On
1407	IO_1.HWDIs_1.HWDI_8	HWDI,RCV 4 Close Limit	Off	On
1408	IO_1.HWDIs_1.HWDI_9	HWDI,RCV 5 Open Limit	Off	On
1409	IO_1.HWDIs_1.HWDI_10	HWDI,RCV 5 Close Limit	Off	On
1410	IO_1.HWDIs_1.HWDI_11	HWDI,RCV 6 Open Limit	Off	On
1411	IO_1.HWDIs_1.HWDI_12	HWDI,RCV 6 Close Limit	Off	On
1412	IO_1.HWDIs_1.HWDI_13	HWDI,RCV 7 Open Limit	Off	On
1413	IO_1.HWDIs_1.HWDI_14	HWDI,RCV 7 Close Limit	Off	On
1414	IO_1.HWDIs_1.HWDI_15	HWDI,RCV 8 Open Limit	Off	On
1415	IO_1.HWDIs_1.HWDI_16	HWDI,RCV 8 Close Limit	Off	On
1416	IO_1.HWDIs_1.HWDI_17	HWDI,RCV 9 Open Limit	Off	On
1417	IO_1.HWDIs_1.HWDI_18	HWDI,RCV 9 Close Limit	Off	On
1418	IO_1.HWDIs_1.HWDI_19	HWDI,RCV 10 Open Limit	Off	On
1419	IO_1.HWDIs_1.HWDI_20	HWDI,RCV 10 Close Limit	Off	On
1420	IO 1.HWDIs 1.HWDI 21	HWDI,RCV 11 Open Limit	Off	On
1421	IO 1.HWDIs 1.HWDI 22	HWDI,RCV 11 Close Limit	Off	On
1422	IO 1.HWDIs 1.HWDI 23	HWDI,RCV 12 Open Limit	Off	On
1423	IO 1.HWDIs 1.HWDI 24	HWDI,RCV 12 Close Limit	Off	On
1424	IO 1.HWDIs 1.HWDI 25	HWDI,TUBE 1 Open Limit	Off	On
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Coil#	Variable	Description	Off State	On State
1425	IO 1.HWDIs 1.HWDI 26	HWDI,TUBE 1 Close Limit	Off	On
			Off	On
1426	IO_1.HWDIs_1.HWDI_27	HWDI,TUBE 2 Open Limit		
1427	IO_1.HWDIs_1.HWDI_28	HWDI,TUBE 2 Close Limit	Off Off	On
1428	IO_1.HWDIs_1.HWDI_29	HWDI,TUBE 3 Open Limit	Off	On
1429	IO_1.HWDIs_1.HWDI_30	HWDI,TUBE 3 Close Limit	Off	On
1430	IO_1.HWDIs_1.HWDI_31	HWDI,TUBE 4 Open Limit	Off	On
1431	IO_1.HWDIs_1.HWDI_32	HWDI,TUBE 4 Close Limit	Off	On
1432	IO_1.HWDIs_1.HWDI_33	HWDI,TUBE 5 Open Limit	Off	On
1433	IO_1.HWDIs_1.HWDI_34	HWDI,TUBE 5 Close Limit	Off	On
1434	IO_1.HWDIs_1.HWDI_35	HWDI,TUBE 6 Open Limit	Off	On
1435	IO_1.HWDIs_1.HWDI_36	HWDI,TUBE 6 Close Limit	Off	On
1436	IO_1.HWDIs_1.HWDI_37	HWDI,TUBE 7 Open Limit	Off	On
1437	IO_1.HWDIs_1.HWDI_38	HWDI,TUBE 7 Close Limit	Off	On
1438	IO_1.HWDIs_1.HWDI_39	HWDI,TUBE 8 Open Limit	Off	On
1439	IO_1.HWDIs_1.HWDI_40	HWDI,TUBE 8 Close Limit	Off	On
1440	IO_1.HWDIs_1.HWDI_41	HWDI,TUBE 9 Open Limit	Off	On
1441	IO_1.HWDIs_1.HWDI_42	HWDI,TUBE 9 Close Limit	Off	On
1442	IO_1.HWDIs_1.HWDI_43	HWDI,TUBE 10 Open Limit	Off	On
1443	IO_1.HWDIs_1.HWDI_44	HWDI,TUBE 10 Close Limit	Off	On
1444	IO_1.HWDIs_1.HWDI_45	HWDI,TUBE 11 Open Limit	Off	On
1445	IO_1.HWDIs_1.HWDI_46	HWDI,TUBE 11 Close Limit	Off	On
1446	IO_1.HWDIs_1.HWDI_47	HWDI,TUBE 12 Open Limit	Off	On
1447	IO_1.HWDIs_1.HWDI_48	HWDI,TUBE 12 Close Limit	Off	On
1448	IO_1.HWDIs_1.HWDI_49	HWDI,CV 1 Open Limit	Off	On
1449	IO_1.HWDIs_1.HWDI_50	HWDI,CV 1 Close Limit	Off	On
1450	IO 1.HWDIs 1.HWDI 51	HWDI,CV 2 Open Limit	Off	On
1451	IO_1.HWDIs_1.HWDI_52	HWDI,CV 2 Close Limit	Off	On
1452	IO 1.HWDIs 1.HWDI 53	HWDI,CV 3 Open Limit	Off	On
1453	IO 1.HWDIs 1.HWDI 54	HWDI,CV 3 Close Limit	Off	On
1454	IO 1.HWDIs 1.HWDI 55	HWDI,CV 4 Open Limit	Off	On
1455	IO 1.HWDIs 1.HWDI 56	HWDI,CV 4 Close Limit	Off	On
1456	IO 1.HWDIs 1.HWDI 57	HWDI,CV 5 Open Limit	Off	On
1457	IO 1.HWDIs 1.HWDI 58	HWDI,CV 5 Close Limit	Off	On
1458	IO 1.HWDIs 1.HWDI 59	HWDI,CV 6 Open Limit	Off	On
1459	IO 1.HWDIs 1.HWDI 60	HWDI,CV 6 Close Limit	Off	On
1460	IO 1.HWDIs 1.HWDI 61	HWDI,CV 7 Open Limit	Off	On
1461	IO 1.HWDIs 1.HWDI 62	HWDI,CV 7 Close Limit	Off	On
1462	IO 1.HWDIs 1.HWDI 63	HWDI,CV 8 Open Limit	Off	On
1463	IO 1.HWDIs 1.HWDI 64	HWDI,CV 8 Close Limit	Off	On
1464	IO 1.HWDIs 1.HWDI 65	HWDI,CV 9 Open Limit	Off	On
1465	IO 1.HWDIs 1.HWDI 66	HWDI,CV 9 Close Limit	Off	On
1466	IO 1.HWDIs 1.HWDI 67	HWDI,CV 9 Close Limit HWDI,CV 10 Open Limit	Off	On
1467	IO 1.HWDIs 1.HWDI 68	HWDI,CV 10 Close Limit	Off	On
1468		HWDI,CV 10 Close Limit HWDI,CV 11 Open Limit	Off	On
	IO_1.HWDIs_1.HWDI_69			
1469	IO_1.HWDIs_1.HWDI_70	HWDI,CV 12 Chap Limit	Off	On
1470	IO_1.HWDIs_1.HWDI_71	HWDI,CV 12 Open Limit	Off	On
1471	IO_1.HWDIs_1.HWDI_72	HWDI,CV 12 Close Limit	Off	On
1472	IO_1.HWDIs_1.HWDI_73	HWDI,GP PID 1 Open Limit	Off	On
1473	IO_1.HWDIs_1.HWDI_74	HWDI,GP PID 1 Close Limit	Off	On

1475 10 HWDIs 1 HWDI 75 HWDIGP PID 2 Open Limit Off On 1476 10 HWDIs 1 HWDI 77 HWDIGP PID 2 Open Limit Off On 1477 10 HWDIs 1 HWDI 77 HWDIGP PID 3 Open Limit Off On 1478 10 HWDIs 1 HWDI 79 HWDIGP PID 3 Open Limit Off On 1478 10 HWDIs 1 HWDI 79 HWDIGP PID 3 Open Limit Off On 1478 10 HWDIs 1 HWDI 79 HWDIGP PID 3 Obes Limit Off On 1479 10 HWDIS 1 HWDI 80 HWDIGP PID 3 Obes Limit Off On 1470 10 HWDIS 1 HWDI 81 HWDIGP PID 3 Obes Limit Off On 1480 10 HWDIS 1 HWDI 81 HWDIGP PID 3 Obes Limit Off On 1481 10 HWDIS 1 HWDI 82 HWDIGP PID 3 Obes Limit Off On 1482 10 HWDIS 1 HWDI 82 HWDIGP PID 3 Obes Limit Off On 1483 10 HWDIS 1 HWDI 82 HWDIGP PID 3 Obes Limit Off On 1483 10 HWDIS 1 HWDI 83 HWDIGP PID 3 Obes Limit Off On 1484 10 HWDIS 1 HWDI 83 HWDIGP PID 3 Obes Limit Off On 1485 10 HWDIS 1 HWDI 84 HWDIGP PID 3 Obes Limit Off On 1486 10 HWDIS 1 HWDI 85 HWDIGP PID 3 Obes Limit Off On 1487 10 HWDIS 1 HWDI 86 HWDIGP PID 3 Obes Limit Off On 1488 10 HWDIS 1 HWDI 87 HWDIGP PID 3 Obes Limit Off On 1489 10 HWDIS 1 HWDI 87 HWDIGP PID 3 Obes Limit Off On 1489 10 HWDIS 1 HWDI 89 HWDIGP PID 3 Obes Limit Off On 1489 10 HWDIS 1 HWDI 89 HWDIGP PID 3 Obes Limit Off On 1490 10 HWDIS 1 HWDI 89 HWDIGP PID 3 Obes Limit Off On 1491 10 HWDIS 1 HWDI 99 HWDIGP PID 3 Obes Limit Off On 1492 10 HWDIS 1 HWDI 99 HWDIGP PID 3 Obes Limit Off On 1493 10 HWDIS 1 HWDI 99 HWDIGP PID 3 Obes Limit Off On 1493 10 HWDIS 1 HWDI 99 HWDIGP PID 3 Obes Limit Off On 1493 10 HWDIS 1 HWDI 99 HWDIGP PID 3 Obes Limit Off On 1493 10 HWDIS 1 HWDI 99 HWDIGP PID 3 Obes Limit Off On 1494 10 HWDIS 1 HWDI 99 HWDIGP PID 3 Obes Limit Off On 1495 10 HWDIS 1 HWDI 99 HWDIGP PID 3	Coil#	Variable	Description	Off State	On State
1475 10 1 1 1 1 1 1 1 1			•		
1476 O 1 HWDIs 1 HWDI 77	İ				
1477 0.1 HWDIs 1.HWDI. 78					
1478 O 1.HWDIs 1.HWDI 79					
1479 10 1.HWDIs 1.HWD 80 1.HWDISV 1.Close Limit 0.0 0.	1				
1480 10 1.HWDIs 1.HWD 81 HWDI,BV 2 Open Limit Off On On On On On On O					
1481 10 1.HWDIs 1.HWDI 82 HWDI,BV 2 Close Limit Off On On On On On On O					
1482 IO _ 1.HWDIs _ 1.HWD _ 83	İ		· '		
1483 10			,		
1484 10 1.HWDIs 1.HWD 85 HWDLBY 4 Open Limit Off On 1485 10 1.HWDIs 1.HWD 86 HWDLBY 4 Open Limit Off On 1486 10 1.HWDIs 1.HWD 88 HWDLBY 5 Open Limit Off On 1487 10 1.HWDIs 1.HWD 88 HWDLBY 5 Open Limit Off On 1488 10 1.HWDIs 1.HWD 89 HWDLBY 5 Open Limit Off On 1489 10 1.HWDIs 1.HWD 99 HWDLBY 6 Close Limit Off On 1490 10 1.HWDIs 1.HWD 91 HWDLBY 7 Open Limit Off On 1491 10 1.HWDIs 1.HWD 92 HWDLBY 7 Open Limit Off On 1492 10 1.HWDIs 1.HWD 93 HWDLBY 7 Open Limit Off On 1493 10 1.HWDIs 1.HWD 93 HWDLBY 8 Open Limit Off On 1494 10 1.HWDIs 1.HWD 94 HWDLBY 8 Open Limit Off On 1495 10 1.HWDIs 1.HWD 95 HWDLBY 8 Open Limit Off On 1496 10 1.HWDIs 1.HWD 96 HWDLST2 DIR BY 1 Open Limit Off On 1496 10 1.HWDIs 1.HWD 97 HWDLST2 DIR BY 1 Close Limit Off On 1497 10 1.HWDIs 1.HWD 98 HWDLST2 DIR BY 2 Open Limit Off On 1498 10 1.HWDIs 1.HWD 99 HWDLST2 DIR BY 2 Open Limit Off On 1499 10 1.HWDIs 1.HWD 100 HWDLST2 DIR BY 2 Open Limit Off On 1499 10 1.HWDIs 1.HWD 100 HWDLST2 DIR BY 2 Open Limit Off On 1499 10 1.HWDIs 1.HWD 100 HWDLST2 DIR BY 3 Open Limit Off On 1500 10 1.HWDIs 1.HWD 101 HWDLST2 DIR BY 3 Open Limit Off On 1500 10 1.HWDIs 1.HWD 101 HWDLST2 DIR BY 3 Open Limit Off On 1500 10 1.HWDIs 1.HWD 101 HWDLST2 DIR BY 4 Close Limit Off On 1500 10 1.HWDIs 1.HWD 103 HWDLST2 DIR BY 6 Open Limit Off On 1500 10 1.HWDIs 1.HWD 103 HWDLST2 DIR BY 6 Open Limit Off On 1500 10 1.HWDIs 1.HWD 103 HWDLST2 DIR BY 6 Open Limit Off On 1500 10 1.HWDIs 1.HWD 105 HWDLST2 DIR BY 6 Open Limit Off On 1500 10 1.HWDIs 1.HWD 106 HWDLST2 DIR BY 6 Open Limit Off On 1500 10 1.HWDIs 1.HWD 106 HWDLST2 DIR					
1485 IO 1.HWDIs 1.HWDI 86 HWDI,BV 4 Close Limit Off On					
1486 10	1		•		
1487 10 1.HWDIs 1.HWDI 88					
1488 IO 1.HWDIs 1.HWDI 89 HWDI,BV 6 Open Limit Off On On On IHWDIS 1.HWDI 90 HWDI,BV 6 Close Limit Off On On On On On On O	İ		· '		
1489 10 1.HWDIs 1.HWDI 90			,		
1490 IO_1.HWDIs_1.HWDI_91 HWDI_BV_7 Open Limit Off On 1491 IO_1.HWDIs_1.HWDI_92 HWDI_BV_8 Close Limit Off On 1492 IO_1.HWDIs_1.HWDI_93 HWDI_BV_8 Open Limit Off On 1493 IO_1.HWDIs_1.HWDI_94 HWDI_BV_8 Open Limit Off On 1494 IO_1.HWDIs_1.HWDI_95 HWDI_BV_8 Open Limit Off On 1495 IO_1.HWDIs_1.HWDI_96 HWDI_ST_2 DIR_BV_1 Obset Limit Off On 1496 IO_1.HWDIs_1.HWDI_96 HWDI_ST_2 DIR_BV_1 Obset Limit Off On 1497 IO_1.HWDIs_1.HWDI_98 HWDI_ST_2 DIR_BV_2 Obset Limit Off On 1498 IO_1.HWDIs_1.HWDI_99 HWDI_ST_2 DIR_BV_3 Obset Limit Off On 1499 IO_1.HWDIs_1.HWDI_99 HWDI_ST_2 DIR_BV_3 Obset Limit Off On 1499 IO_1.HWDIs_1.HWDI_100 HWDI_ST_2 DIR_BV_3 Obset Limit Off On 1490 IO_1.HWDIs_1.HWDI_101 HWDI_ST_2 DIR_BV_3 Obset Limit Off On 1500 IO_1.HWDIs_1.HWDI_101 HWDI_ST_2 DIR_BV_3 Obset Limit Off On 1501 IO_1.HWDIs_1.HWDI_102 HWDI_ST_2 DIR_BV_3 Obset Limit Off On 1502 IO_1.HWDIs_1.HWDI_103 HWDI_ST_2 DIR_BV_3 Obset Limit Off On 1503 IO_1.HWDIs_1.HWDI_103 HWDI_ST_2 DIR_BV_3 Obset Limit Off On 1504 IO_1.HWDIs_1.HWDI_104 HWDI_ST_2 DIR_BV_3 Obset Limit Off On 1505 IO_1.HWDIs_1.HWDI_105 HWDI_ST_2 DIR_BV_3 Obset Limit Off On 1506 IO_1.HWDIs_1.HWDI_106 HWDI_ST_2 DIR_BV_3 Obset Limit Off On 1507 IO_1.HWDIs_1.HWDI_108 HWDI_ST_2 DIR_BV_3 Obset Limit Off On 1508 IO_1.HWDIs_1.HWDI_108 HWDI_ST_2 DIR_BV_3 Obset Limit Off On 1509 IO_1.HWDIs_1.HWDI_109 HWDI_ST_2 DIR_BV_3 Obset Limit Off On 1500 IO_1.HWDIs_1.HWDI_108 HWDI_ST_2 DIR_BV_3 Obset Limit Off On 1501 IO_1.HWDIs_1.HWDI_110 HWDI_ST_2 DIR_BV_3 Obset Limit Off On 1501 IO_1.HWDIs_1.HWDI_110 HWDI_ST_2 DIR_BV_3 Obset Limit Off On 1501 IO_1.HWDIs_1.HWDI_110 HWDI_ST_2 DIR_BV_3 Obset Limit Off On 1510 IO_1.HWDIs_1.HWDI_111 HWDI_OPP_3 Obset Limit Off On 1511 IO_1.HWDIs_1.HWDI_111 H			HWDI,BV 6 Open Limit		
1491 10 1.HWDIs 1.HWDI 92 HWDI,BV 7 Close Limit Off On 1492 10 1.HWDIs 1.HWDI 93 HWDI,BV 8 Open Limit Off On 1493 10 1.HWDIs 1.HWDI 94 HWDI,BV 8 Close Limit Off On 1494 10 1.HWDIs 1.HWDI 95 HWDI,BV 8 Close Limit Off On 1495 10 1.HWDIs 1.HWDI 96 HWDI,ST2 DIR BV 1 Open Limit Off On 1496 10 1.HWDIs 1.HWDI 97 HWDI,ST2 DIR BV 2 Open Limit Off On 1497 10 1.HWDIs 1.HWDI 98 HWDI,ST2 DIR BV 2 Open Limit Off On 1498 10 1.HWDIs 1.HWDI 98 HWDI,ST2 DIR BV 3 Open Limit Off On 1499 10 1.HWDIs 1.HWDI 109 HWDI,ST2 DIR BV 3 Open Limit Off On 1499 10 1.HWDIs 1.HWDI 100 HWDI,ST2 DIR BV 3 Open Limit Off On 1500 10 1.HWDIs 1.HWDI 101 HWDI,ST2 DIR BV 3 Open Limit Off On 1500 10 1.HWDIs 1.HWDI 102 HWDI,ST2 DIR BV 4 Open Limit Off On 1501 10 1.HWDIs 1.HWDI 103 HWDI,ST2 DIR BV 4 Open Limit Off On 1502 10 1.HWDIs 1.HWDI 103 HWDI,ST2 DIR BV 5 Open Limit Off On 1503 10 1.HWDIs 1.HWDI 103 HWDI,ST2 DIR BV 6 Open Limit Off On 1504 10 1.HWDIs 1.HWDI 104 HWDI,ST2 DIR BV 6 Open Limit Off On 1505 10 1.HWDIs 1.HWDI 105 HWDI,ST2 DIR BV 6 Open Limit Off On 1506 10 1.HWDIs 1.HWDI 106 HWDI,ST2 DIR BV 7 Open Limit Off On 1507 10 1.HWDIs 1.HWDI 108 HWDI,ST2 DIR BV 7 Open Limit Off On 1508 10 1.HWDIs 1.HWDI 109 HWDI,ST2 DIR BV 8 Open Limit Off On 1509 10 1.HWDIs 1.HWDI 109 HWDI,ST2 DIR BV 8 Open Limit Off On 1501 10 1.HWDIs 1.HWDI 110 HWDI,ST2 DIR BV 8 Open Limit Off On 1501 10 1.HWDIs 1.HWDI 111 HWDI,OPP 1 Open Limit Off On 1511 10 1.HWDIs 1.HWDI 111 HWDI,OPP 2 Open Limit Off On 1511 10 1.HWDIs 1.HWDI 111 HWDI,OPP 2 Open Limit Off On 1512 10 1.HWDIs 1.HWDI 113 HWDI,OPP 3 Open Limit Off On 1516 10 1.HWDIs 1.HWDI 116 HWDI,OPP 3 Open Limit Off On 1517 10 1.HWDIs 1.HWDI 119 HWDI,OPP 6 Open Limit Off On 1520 10 1.HWDIs 1.HWD	1489	IO_1.HWDIs_1.HWDI_90	HWDI,BV 6 Close Limit		On
1492 IO_1.HWDIs_1.HWDI_93 HWDI_BV 8 Open Limit Off On 1494 IO_1.HWDIs_1.HWDI_94 HWDI_BV 8 Close Limit Off On 1495 IO_1.HWDIs_1.HWDI_95 HWDI_ST2 DIR BV 1 Open Limit Off On 1496 IO_1.HWDIs_1.HWDI_97 HWDI_ST2 DIR BV 1 Close Limit Off On 1497 IO_1.HWDIs_1.HWDI_97 HWDI_ST2 DIR BV 2 Open Limit Off On 1498 IO_1.HWDIs_1.HWDI_98 HWDI_ST2 DIR BV 2 Close Limit Off On 1498 IO_1.HWDIs_1.HWDI_99 HWDI_ST2 DIR BV 3 Close Limit Off On 1499 IO_1.HWDIs_1.HWDI_99 HWDI_ST2 DIR BV 3 Open Limit Off On 1499 IO_1.HWDIs_1.HWDI_100 HWDI_ST2 DIR BV 3 Open Limit Off On 1500 IO_1.HWDIs_1.HWDI_101 HWDI_ST2 DIR BV 4 Open Limit Off On 1501 IO_1.HWDIs_1.HWDI_102 HWDI_ST2 DIR BV 4 Close Limit Off On 1502 IO_1.HWDIs_1.HWDI_103 HWDI_ST2 DIR BV 5 Open Limit Off On 1503 IO_1.HWDIs_1.HWDI_103 HWDI_ST2 DIR BV 5 Open Limit Off On 1504 IO_1.HWDIs_1.HWDI_105 HWDI_ST2 DIR BV 6 Open Limit Off On 1505 IO_1.HWDIs_1.HWDI_106 HWDI_ST2 DIR BV 6 Open Limit Off On 1506 IO_1.HWDIs_1.HWDI_106 HWDI_ST2 DIR BV 7 Open Limit Off On 1507 IO_1.HWDIs_1.HWDI_107 HWDI_ST2 DIR BV 7 Open Limit Off On 1508 IO_1.HWDIs_1.HWDI_108 HWDI_ST2 DIR BV 7 Open Limit Off On 1509 IO_1.HWDIs_1.HWDI_109 HWDI_ST2 DIR BV 8 Open Limit Off On 1501 IO_1.HWDIs_1.HWDI_109 HWDI_ST2 DIR BV 8 Open Limit Off On 1501 IO_1.HWDIs_1.HWDI_110 HWDI_ST2 DIR BV 8 Open Limit Off On 1502 IO_1.HWDIs_1.HWDI_110 HWDI_ST2 DIR BV 8 Open Limit Off On 1503 IO_1.HWDIs_1.HWDI_110 HWDI_ST2 DIR BV 8 Open Limit Off On 1504 IO_1.HWDIs_1.HWDI_110 HWDI_ST2 DIR BV 8 Open Limit Off On 1505 IO_1.HWDIs_1.HWDI_111 HWDI_OPP 1 Open Limit Off On 1506 IO_1.HWDIs_1.HWDI_111 HWDI_OPP 2 Open Limit Off On 1510 IO_1.HWDIs_1.HWDI_111 HWDI_OPP 2 Open Limit Off On 1511 IO_1.HWDIs_1.HWDI_111 HWDI_OPP 3 Open Limit Off	1490	IO_1.HWDIs_1.HWDI_91	HWDI,BV 7 Open Limit		
1493 10 1.HWDIs 1.HWDI 94	1491	IO_1.HWDIs_1.HWDI_92	HWDI,BV 7 Close Limit	Off	On
1494 IO_1.HWDIs_1.HWDI_95 HWDI_ST2_DIR_BV_1_Open_Limit Off On 1495 IO_1.HWDIs_1.HWDI_96 HWDI_ST2_DIR_BV_1_Close_Limit Off On 1496 IO_1.HWDIs_1.HWDI_97 HWDI_ST2_DIR_BV_2_Open_Limit Off On 1497 IO_1.HWDIs_1.HWDI_98 HWDI_ST2_DIR_BV_2_Close_Limit Off On 1498 IO_1.HWDIs_1.HWDI_99 HWDI_ST2_DIR_BV_2_Close_Limit Off On 1499 IO_1.HWDIs_1.HWDI_100 HWDI_ST2_DIR_BV_3_Close_Limit Off On 1490 IO_1.HWDIs_1.HWDI_101 HWDI_ST2_DIR_BV_3_Close_Limit Off On 1500 IO_1.HWDIs_1.HWDI_101 HWDI_ST2_DIR_BV_3_Close_Limit Off On 1501 IO_1.HWDIs_1.HWDI_102 HWDI_ST2_DIR_BV_3_Close_Limit Off On 1502 IO_1.HWDIs_1.HWDI_103 HWDI_ST2_DIR_BV_3_Close_Limit Off On 1503 IO_1.HWDIs_1.HWDI_103 HWDI_ST2_DIR_BV_3_Close_Limit Off On 1504 IO_1.HWDIs_1.HWDI_104 HWDI_ST2_DIR_BV_3_Close_Limit Off On 1505 IO_1.HWDIs_1.HWDI_105 HWDI_ST2_DIR_BV_3_Close_Limit Off On 1506 IO_1.HWDIs_1.HWDI_106 HWDI_ST2_DIR_BV_3_Close_Limit Off On 1507 IO_1.HWDIs_1.HWDI_107 HWDI_ST2_DIR_BV_3_Close_Limit Off On 1508 IO_1.HWDIs_1.HWDI_108 HWDI_ST2_DIR_BV_3_Close_Limit Off On 1509 IO_1.HWDIs_1.HWDI_108 HWDI_ST2_DIR_BV_3_Close_Limit Off On 1509 IO_1.HWDIs_1.HWDI_109 HWDI_ST2_DIR_BV_3_Close_Limit Off On 1501 IO_1.HWDIs_1.HWDI_111 HWDI_ST2_DIR_BV_3_Close_Limit Off On 1510 IO_1.HWDIs_1.HWDI_111 HWDI_ST2_DIR_BV_3_Close_Limit Off On 1511 IO_1.HWDIs_1.HWDI_111 HWDI_ST2_DIR_BV_3_Close_Limit Off On 1512 IO_1.HWDIs_1.HWDI_111 HWDI_ST2_DIR_BV_3_Close_Limit Off On 1513 IO_1.HWDIs_1.HWDI_111 HWDI_ST2_DIR_BV_3_Close_Limit Off On 1514 IO_1.HWDIs_1.HWDI_111 HWDI_ST2_DIR_BV_3_Close_Limit Off On 1515 IO_1.HWDIs_1.HWDI_111 HWDI_ST2_DIR_BV_3_DIR_LIMIT Off On 1516 IO_1.HWDIs_1.HWDI_111 HWDI_ST2_DIR_BV_3_DIR_LIMIT Off On 1517 IO_1.HWDIs_1.HWDI_111 HWDI_ST2_DIR_BV_3_DIR_LIMIT Off On 1518	1492	IO_1.HWDIs_1.HWDI_93	HWDI,BV 8 Open Limit	Off	On
1495 IO_1.HWDIs_1.HWDI_96 HWDI,ST2 DIR BV 1 Close Limit Off On 1496 IO_1.HWDIs_1.HWDI_97 HWDI,ST2 DIR BV 2 Open Limit Off On 1497 IO_1.HWDIs_1.HWDI_98 HWDI,ST2 DIR BV 2 Close Limit Off On 1498 IO_1.HWDIs_1.HWDI_99 HWDI,ST2 DIR BV 3 Open Limit Off On 1499 IO_1.HWDIs_1.HWDI_100 HWDI,ST2 DIR BV 3 Close Limit Off On 1500 IO_1.HWDIs_1.HWDI_101 HWDI,ST2 DIR BV 3 Close Limit Off On 1501 IO_1.HWDIs_1.HWDI_102 HWDI,ST2 DIR BV 4 Open Limit Off On 1502 IO_1.HWDIs_1.HWDI_103 HWDI,ST2 DIR BV 4 Close Limit Off On 1503 IO_1.HWDIs_1.HWDI_103 HWDI,ST2 DIR BV 5 Close Limit Off On 1504 IO_1.HWDIs_1.HWDI_104 HWDI,ST2 DIR BV 5 Close Limit Off On 1505 IO_1.HWDIs_1.HWDI_105 HWDI,ST2 DIR BV 6 Open Limit Off On 1506 IO_1.HWDIs_1.HWDI_106 HWDI,ST2 DIR BV 6 Close Limit Off On 1507 IO_1.HWDIs_1.HWDI_107 HWDI,ST2 DIR BV 7 Open Limit Off On 1508 IO_1.HWDIs_1.HWDI_108 HWDI,ST2 DIR BV 7 Close Limit Off On 1509 IO_1.HWDIs_1.HWDI_108 HWDI,ST2 DIR BV 8 Open Limit Off On 1509 IO_1.HWDIs_1.HWDI_109 HWDI,ST2 DIR BV 8 Close Limit Off On 1510 IO_1.HWDIs_1.HWDI_109 HWDI,ST2 DIR BV 8 Close Limit Off On 1511 IO_1.HWDIs_1.HWDI_111 HWDI,DPP 1 Open Limit Off On 1512 IO_1.HWDIs_1.HWDI_1113 HWDI,OPP 2 Open Limit Off On 1513 IO_1.HWDIs_1.HWDI_1114 HWDI,OPP 2 Close Limit Off On 1514 IO_1.HWDIs_1.HWDI_1115 HWDI,OPP 3 Open Limit Off On 1515 IO_1.HWDIs_1.HWDI_1116 HWDI,OPP 3 Close Limit Off On 1516 IO_1.HWDIs_1.HWDI_1118 HWDI,OPP 3 Close Limit Off On 1517 IO_1.HWDIs_1.HWDI_1118 HWDI,OPP 5 Open Limit Off On 1518 IO_1.HWDIs_1.HWDI_1118 HWDI,OPP 5 Close Limit Off On 1519 IO_1.HWDIs_1.HWDI_1119 HWDI,OPP 5 Close Limit Off On 1520 IO_1.HWDIs_1.HWDI_1120 HWDI,OPP 6 Close Limit Off On	1493	IO_1.HWDIs_1.HWDI_94	HWDI,BV 8 Close Limit	Off	On
1496 IO 1.HWDIs 1.HWDI 97	1494	IO_1.HWDIs_1.HWDI_95	HWDI,ST2 DIR BV 1 Open Limit	Off	On
1497 IO_1.HWDIs_1.HWD 98	1495	IO_1.HWDIs_1.HWDI_96	HWDI,ST2 DIR BV 1 Close Limit	Off	On
1498 IO_1.HWDIs_1.HWDI_99 HWDI,ST2 DIR BV 3 Open Limit Off On 1499 IO_1.HWDIs_1.HWDI_100 HWDI,ST2 DIR BV 3 Close Limit Off On 1500 IO_1.HWDIs_1.HWDI_101 HWDI,ST2 DIR BV 4 Open Limit Off On 1501 IO_1.HWDIs_1.HWDI_102 HWDI,ST2 DIR BV 4 Close Limit Off On 1502 IO_1.HWDIs_1.HWDI_103 HWDI,ST2 DIR BV 5 Open Limit Off On 1503 IO_1.HWDIs_1.HWDI_104 HWDI,ST2 DIR BV 5 Close Limit Off On 1504 IO_1.HWDIs_1.HWDI_105 HWDI,ST2 DIR BV 6 Close Limit Off On 1505 IO_1.HWDIs_1.HWDI_106 HWDI,ST2 DIR BV 6 Close Limit Off On 1506 IO_1.HWDIs_1.HWDI_107 HWDI,ST2 DIR BV 6 Close Limit Off On 1507 IO_1.HWDIs_1.HWDI_108 HWDI,ST2 DIR BV 7 Open Limit Off On 1508 IO_1.HWDIs_1.HWDI_108 HWDI,ST2 DIR BV 7 Close Limit Off On 1509 IO_1.HWDIs_1.HWDI_109 HWDI,ST2 DIR BV 8 Close Limit Off On 1509 IO_1.HWDIs_1.HWDI_109 HWDI,ST2 DIR BV 8 Close Limit Off On 1510 IO_1.HWDIs_1.HWDI_110 HWDI,ST2 DIR BV 8 Close Limit Off On 1511 IO_1.HWDIs_1.HWDI_111 HWDI,OPP 1 Open Limit Off On 1512 IO_1.HWDIs_1.HWDI_113 HWDI,OPP 2 Open Limit Off On 1513 IO_1.HWDIs_1.HWDI_114 HWDI,OPP 3 Open Limit Off On 1514 IO_1.HWDIs_1.HWDI_115 HWDI,OPP 3 Close Limit Off On 1515 IO_1.HWDIs_1.HWDI_116 HWDI,OPP 3 Close Limit Off On 1516 IO_1.HWDIs_1.HWDI_117 HWDI,OPP 4 Close Limit Off On 1517 IO_1.HWDIs_1.HWDI_118 HWDI,OPP 5 Close Limit Off On 1518 IO_1.HWDIs_1.HWDI_119 HWDI,OPP 5 Close Limit Off On 1519 IO_1.HWDIs_1.HWDI_119 HWDI,OPP 6 Close Limit Off On 1520 IO_1.HWDIs_1.HWDI_121 HWDI,OPP 6 Close Limit Off On 1521 IO_1.HWDIs_1.HWDI_121 HWDI,OPP 6 Close Limit Off On 1520 IO_1.HWDIs_1.HWDI_122 HWDI,OPP 6 Close Limit Off On	1496	IO_1.HWDIs_1.HWDI_97	HWDI,ST2 DIR BV 2 Open Limit	Off	On
1499	1497	IO_1.HWDIs_1.HWDI_98	HWDI,ST2 DIR BV 2 Close Limit	Off	On
1500 10 1.HWDIs 1.HWDI 101 HWDI,ST2 DIR BV 4 Open Limit Off On 1501 10 1.HWDIs 1.HWDI 102 HWDI,ST2 DIR BV 4 Close Limit Off On 1502 10 1.HWDIs 1.HWDI 103 HWDI,ST2 DIR BV 5 Open Limit Off On 1503 10 1.HWDIs 1.HWDI 104 HWDI,ST2 DIR BV 5 Open Limit Off On 1504 10 1.HWDIs 1.HWDI 105 HWDI,ST2 DIR BV 6 Open Limit Off On 1505 10 1.HWDIs 1.HWDI 106 HWDI,ST2 DIR BV 6 Open Limit Off On 1506 10 1.HWDIs 1.HWDI 107 HWDI,ST2 DIR BV 6 Open Limit Off On 1507 10 1.HWDIs 1.HWDI 108 HWDI,ST2 DIR BV 7 Open Limit Off On 1508 10 1.HWDIs 1.HWDI 109 HWDI,ST2 DIR BV 7 Close Limit Off On 1509 10 1.HWDIs 1.HWDI 110 HWDI,ST2 DIR BV 8 Open Limit Off On 1510 10 1.HWDIs 1.HWDI 111 HWDI,OPP 1 Open Limit Off On 1511 10 1.HWDIs 1.HWDI 112 HWDI,OPP 1 Open Limit Off On 1512 10 1.HWDIs 1.HWDI 113 HWDI,OPP 2 Open Limit Off On 1513 10 1.HWDIs 1.HWDI 114 HWDI,OPP 2 Open Limit Off On 1514 10 1.HWDIs 1.HWDI 115 HWDI,OPP 3 Open Limit Off On 1515 10 1.HWDIs 1.HWDI 116 HWDI,OPP 3 Open Limit Off On 1516 10 1.HWDIs 1.HWDI 117 HWDI,OPP 4 Open Limit Off On 1517 10 1.HWDIs 1.HWDI 117 HWDI,OPP 4 Open Limit Off On 1518 10 1.HWDIs 1.HWDI 118 HWDI,OPP 5 Open Limit Off On 1519 10 1.HWDIs 1.HWDI 119 HWDI,OPP 5 Open Limit Off On 1519 10 1.HWDIs 1.HWDI 120 HWDI,OPP 5 Open Limit Off On 1520 10 1.HWDIs 1.HWDI 121 HWDI,OPP 6 Open Limit Off On 1521 10 1.HWDIs 1.HWDI 121 HWDI,OPP 6 Open Limit Off On 1521 10 1.HWDIs 1.HWDI 121 HWDI,OPP 6 Open Limit Off On 1522 10 1.HWDIs 1.HWDI 121 HWDI,OPP 6 Open Limit Off On 1523 10 1.HWDIs 1.HWDI 121 HWDI,OPP 6 Open Limit Off On 1524 10 1.HWDIs 1.HWDI 122 HWDI,OPP 6 Open Limit Off On	1498	IO_1.HWDIs_1.HWDI_99	HWDI,ST2 DIR BV 3 Open Limit	Off	On
1501 10 1.HWDIs 1.HWDI 102	1499	IO_1.HWDIs_1.HWDI_100	HWDI,ST2 DIR BV 3 Close Limit	Off	On
1502 IO 1.HWDIs 1.HWDI 103 HWDI,ST2 DIR BV 5 Open Limit Off On 1503 IO 1.HWDIs 1.HWDI 104 HWDI,ST2 DIR BV 5 Close Limit Off On 1504 IO 1.HWDIs 1.HWDI 105 HWDI,ST2 DIR BV 6 Open Limit Off On 1505 IO 1.HWDIS 1.HWDI 106 HWDI,ST2 DIR BV 6 Close Limit Off On 1506 IO 1.HWDIS 1.HWDI 107 HWDI,ST2 DIR BV 7 Open Limit Off On 1507 IO 1.HWDIS 1.HWDI 108 HWDI,ST2 DIR BV 7 Close Limit Off On 1508 IO 1.HWDIS 1.HWDI 109 HWDI,ST2 DIR BV 8 Open Limit Off On 1509 IO 1.HWDIS 1.HWDI 110 HWDI,ST2 DIR BV 8 Close Limit Off On 1510 IO 1.HWDIS 1.HWDI 111 HWDI,OPP 1 Open Limit Off On 1511 IO 1.HWDIS 1.HWDI 112 HWDI,OPP 1 Close Limit Off On 1512 IO 1.HWDIS 1.HWDI 113 HWDI,OPP 2 Open Limit Off On 1513 IO 1.HWDIS 1.HWDI 114 HWDI,OPP 2 Open Limit Off On 1514 IO 1.HWDIS 1.HWDI 115 HWDI,OPP 3 Open Limit Off On 1515 IO 1.HWDIS 1.HWDI 116 HWDI,OPP 3 Close Limit Off On 1516 IO 1.HWDIS 1.HWDI 117 HWDI,OPP 4 Open Limit Off On 1517 IO 1.HWDIS 1.HWDI 118 HWDI,OPP 5 Open Limit Off On 1518 IO 1.HWDIS 1.HWDI 119 HWDI,OPP 5 Open Limit Off On 1519 IO 1.HWDIS 1.HWDI 120 HWDI,OPP 6 Open Limit Off On 1520 IO 1.HWDIS 1.HWDI 121 HWDI,OPP 6 Open Limit Off On	1500	IO_1.HWDIs_1.HWDI_101	HWDI,ST2 DIR BV 4 Open Limit	Off	On
1503 IO 1.HWDIs 1.HWDI 104	1501	IO_1.HWDIs_1.HWDI_102	HWDI,ST2 DIR BV 4 Close Limit	Off	On
1504 IO_1.HWDIs_1.HWDI_105 HWDI,ST2 DIR BV 6 Open Limit Off On 1505 IO_1.HWDIs_1.HWDI_106 HWDI,ST2 DIR BV 6 Close Limit Off On 1506 IO_1.HWDIs_1.HWDI_107 HWDI,ST2 DIR BV 7 Open Limit Off On 1507 IO_1.HWDIs_1.HWDI_108 HWDI,ST2 DIR BV 7 Close Limit Off On 1508 IO_1.HWDIs_1.HWDI_109 HWDI,ST2 DIR BV 8 Open Limit Off On 1509 IO_1.HWDIs_1.HWDI_110 HWDI,ST2 DIR BV 8 Close Limit Off On 1510 IO_1.HWDIs_1.HWDI_111 HWDI,OPP 1 Open Limit Off On 1511 IO_1.HWDIs_1.HWDI_1112 HWDI,OPP 1 Close Limit Off On 1512 IO_1.HWDIs_1.HWDI_113 HWDI,OPP 2 Open Limit Off On 1513 IO_1.HWDIs_1.HWDI_114 HWDI,OPP 2 Close Limit Off On 1514 IO_1.HWDIs_1.HWDI_115 HWDI,OPP 3 Open Limit Off On 1515 IO_1.HWDIs_1.HWDI_116 HWDI,OPP 4 Open Limit Off On 1516 IO_1.HWDIs_1.HWDI_118	1502	IO_1.HWDIs_1.HWDI_103	HWDI,ST2 DIR BV 5 Open Limit	Off	On
1505 IO 1.HWDIs 1.HWDI 106 HWDI,ST2 DIR BV 6 Close Limit Off On 1506 IO 1.HWDIs 1.HWDI 107 HWDI,ST2 DIR BV 7 Open Limit Off On 1507 IO 1.HWDIs 1.HWDI 108 HWDI,ST2 DIR BV 7 Close Limit Off On 1508 IO 1.HWDIs 1.HWDI 109 HWDI,ST2 DIR BV 8 Open Limit Off On 1509 IO 1.HWDIs 1.HWDI 110 HWDI,ST2 DIR BV 8 Close Limit Off On 1510 IO 1.HWDIs 1.HWDI 111 HWDI,OPP 1 Open Limit Off On 1511 IO 1.HWDIs 1.HWDI 112 HWDI,OPP 1 Close Limit Off On 1512 IO 1.HWDIs 1.HWDI 113 HWDI,OPP 2 Open Limit Off On 1513 IO 1.HWDIs 1.HWDI 114 HWDI,OPP 2 Close Limit Off On 1514 IO 1.HWDIs 1.HWDI 115 HWDI,OPP 3 Open Limit Off On 1515 IO 1.HWDIs 1.HWDI 116 HWDI,OPP 4 Open Limit Off On 1516 IO 1.HWDIs 1.HWDI 118 HWDI,OPP 5 Open Limit Off On 1518 IO 1.HWDIs 1.HWDI 119 HW	1503	IO_1.HWDIs_1.HWDI_104	HWDI,ST2 DIR BV 5 Close Limit	Off	On
1506 IO 1.HWDIs 1.HWDI 107 HWDI,ST2 DIR BV 7 Open Limit Off On 1507 IO_1.HWDIs 1.HWDI 108 HWDI,ST2 DIR BV 7 Close Limit Off On 1508 IO_1.HWDIs 1.HWDI 109 HWDI,ST2 DIR BV 8 Open Limit Off On 1509 IO_1.HWDIs 1.HWDI 110 HWDI,ST2 DIR BV 8 Close Limit Off On 1510 IO_1.HWDIs 1.HWDI 111 HWDI,OPP 1 Open Limit Off On 1511 IO_1.HWDIs 1.HWDI 112 HWDI,OPP 1 Close Limit Off On 1512 IO_1.HWDIs 1.HWDI 113 HWDI,OPP 2 Open Limit Off On 1513 IO_1.HWDIs 1.HWDI 114 HWDI,OPP 2 Close Limit Off On 1514 IO_1.HWDIs 1.HWDI 115 HWDI,OPP 3 Open Limit Off On 1515 IO_1.HWDIs 1.HWDI 116 HWDI,OPP 3 Close Limit Off On 1516 IO_1.HWDIs 1.HWDI 117 HWDI,OPP 4 Close Limit Off On 1518 IO_1.HWDIs 1.HWDI 119 HWDI,OPP 5 Open Limit Off On 1520 IO_1.HWDIs 1.HWDI 121 HWDI,OPP	1504	IO_1.HWDIs_1.HWDI_105	HWDI,ST2 DIR BV 6 Open Limit	Off	On
1507 IO 1.HWDIs 1.HWDI 108 HWDI,ST2 DIR BV 7 Close Limit Off On 1508 IO 1.HWDIs 1.HWDI 109 HWDI,ST2 DIR BV 8 Open Limit Off On 1509 IO 1.HWDIs 1.HWDI 110 HWDI,ST2 DIR BV 8 Close Limit Off On 1510 IO 1.HWDIs 1.HWDI 111 HWDI,OPP 1 Open Limit Off On 1511 IO 1.HWDIs 1.HWDI 112 HWDI,OPP 1 Close Limit Off On 1512 IO 1.HWDIs 1.HWDI 113 HWDI,OPP 2 Open Limit Off On 1513 IO 1.HWDIs 1.HWDI 114 HWDI,OPP 2 Close Limit Off On 1514 IO 1.HWDIs 1.HWDI 115 HWDI,OPP 3 Open Limit Off On 1515 IO 1.HWDIs 1.HWDI 116 HWDI,OPP 3 Close Limit Off On 1516 IO 1.HWDIs 1.HWDI 117 HWDI,OPP 4 Open Limit Off On 1517 IO 1.HWDIs 1.HWDI 118 HWDI,OPP 5 Open Limit Off On 1518 IO 1.HWDIs 1.HWDI 119 HWDI,OPP 5 Close Limit Off On 1519 IO 1.HWDIs 1.HWDI 120 HWDI,OPP 6 Open	1505	IO_1.HWDIs_1.HWDI_106	HWDI,ST2 DIR BV 6 Close Limit	Off	On
1508 IO 1.HWDIs 1.HWDI 109 HWDI,ST2 DIR BV 8 Open Limit Off On 1509 IO 1.HWDIs 1.HWDI 110 HWDI,ST2 DIR BV 8 Close Limit Off On 1510 IO 1.HWDIs 1.HWDI 111 HWDI,OPP 1 Open Limit Off On 1511 IO 1.HWDIs 1.HWDI 112 HWDI,OPP 1 Close Limit Off On 1512 IO 1.HWDIs 1.HWDI 113 HWDI,OPP 2 Open Limit Off On 1513 IO 1.HWDIs 1.HWDI 114 HWDI,OPP 2 Close Limit Off On 1514 IO 1.HWDIs 1.HWDI 115 HWDI,OPP 3 Open Limit Off On 1515 IO 1.HWDIs 1.HWDI 116 HWDI,OPP 3 Close Limit Off On 1516 IO 1.HWDIs 1.HWDI 117 HWDI,OPP 4 Open Limit Off On 1517 IO 1.HWDIs 1.HWDI 118 HWDI,OPP 5 Open Limit Off On 1518 IO 1.HWDIs 1.HWDI 120 HWDI,OPP 5 Close Limit Off On 1520 IO 1.HWDIs 1.HWDI 121 HWDI,OPP 6 Open Limit Off On 1521 IO 1.HWDIs 1.HWDI 122 HWDI,OPP 6 Close Limit<	1506	IO_1.HWDIs_1.HWDI_107	HWDI,ST2 DIR BV 7 Open Limit	Off	On
1509 IO 1.HWDIs 1.HWDI 110 HWDI,ST2 DIR BV 8 Close Limit Off On 1510 IO 1.HWDIs 1.HWDI 111 HWDI,OPP 1 Open Limit Off On 1511 IO 1.HWDIs 1.HWDI 112 HWDI,OPP 1 Close Limit Off On 1512 IO 1.HWDIs 1.HWDI 113 HWDI,OPP 2 Open Limit Off On 1513 IO 1.HWDIs 1.HWDI 114 HWDI,OPP 2 Close Limit Off On 1514 IO 1.HWDIs 1.HWDI 115 HWDI,OPP 3 Open Limit Off On 1515 IO 1.HWDIs 1.HWDI 116 HWDI,OPP 3 Close Limit Off On 1516 IO 1.HWDIs 1.HWDI 117 HWDI,OPP 4 Open Limit Off On 1517 IO 1.HWDIs 1.HWDI 118 HWDI,OPP 4 Close Limit Off On 1518 IO 1.HWDIs 1.HWDI 119 HWDI,OPP 5 Open Limit Off On 1519 IO 1.HWDIs 1.HWDI 120 HWDI,OPP 6 Open Limit Off On 1520 IO 1.HWDIs 1.HWDI 121 HWDI,OPP 6 Open Limit Off On	1507	IO_1.HWDIs_1.HWDI_108	HWDI,ST2 DIR BV 7 Close Limit	Off	On
1510 IO_1.HWDIs_1.HWDI_111 HWDI,OPP 1 Open Limit Off On 1511 IO_1.HWDIs_1.HWDI_112 HWDI,OPP 1 Close Limit Off On 1512 IO_1.HWDIs_1.HWDI_113 HWDI,OPP 2 Open Limit Off On 1513 IO_1.HWDIs_1.HWDI_114 HWDI,OPP 2 Close Limit Off On 1514 IO_1.HWDIs_1.HWDI_115 HWDI,OPP 3 Open Limit Off On 1515 IO_1.HWDIs_1.HWDI_116 HWDI,OPP 3 Close Limit Off On 1516 IO_1.HWDIs_1.HWDI_117 HWDI,OPP 4 Open Limit Off On 1517 IO_1.HWDIs_1.HWDI_118 HWDI,OPP 4 Close Limit Off On 1518 IO_1.HWDIs_1.HWDI_119 HWDI,OPP 5 Open Limit Off On 1519 IO_1.HWDIs_1.HWDI_120 HWDI,OPP 6 Open Limit Off On 1520 IO_1.HWDIs_1.HWDI_121 HWDI,OPP 6 Open Limit Off On	1508	IO_1.HWDIs_1.HWDI_109	HWDI,ST2 DIR BV 8 Open Limit	Off	On
1511 IO_1.HWDIs_1.HWDI_112 HWDI,OPP 1 Close Limit Off On 1512 IO_1.HWDIs_1.HWDI_113 HWDI,OPP 2 Open Limit Off On 1513 IO_1.HWDIs_1.HWDI_114 HWDI,OPP 2 Close Limit Off On 1514 IO_1.HWDIs_1.HWDI_115 HWDI,OPP 3 Open Limit Off On 1515 IO_1.HWDIs_1.HWDI_116 HWDI,OPP 3 Close Limit Off On 1516 IO_1.HWDIs_1.HWDI_117 HWDI,OPP 4 Open Limit Off On 1517 IO_1.HWDIs_1.HWDI_118 HWDI,OPP 4 Close Limit Off On 1518 IO_1.HWDIs_1.HWDI_119 HWDI,OPP 5 Open Limit Off On 1519 IO_1.HWDIs_1.HWDI_120 HWDI,OPP 5 Close Limit Off On 1520 IO_1.HWDIs_1.HWDI_121 HWDI,OPP 6 Open Limit Off On 1521 IO_1.HWDIs_1.HWDI_122 HWDI,OPP 6 Close Limit Off On	1509	IO_1.HWDIs_1.HWDI_110	HWDI,ST2 DIR BV 8 Close Limit	Off	On
1512 IO 1.HWDIs 1.HWDI 113 HWDI,OPP 2 Open Limit Off On 1513 IO 1.HWDIs 1.HWDI 114 HWDI,OPP 2 Close Limit Off On 1514 IO 1.HWDIs 1.HWDI 115 HWDI,OPP 3 Open Limit Off On 1515 IO 1.HWDIs 1.HWDI 116 HWDI,OPP 3 Close Limit Off On 1516 IO 1.HWDIs 1.HWDI 117 HWDI,OPP 4 Open Limit Off On 1517 IO 1.HWDIs 1.HWDI 118 HWDI,OPP 4 Close Limit Off On 1518 IO 1.HWDIs 1.HWDI 119 HWDI,OPP 5 Open Limit Off On 1519 IO 1.HWDIs 1.HWDI 120 HWDI,OPP 5 Close Limit Off On 1520 IO 1.HWDIs 1.HWDI 121 HWDI,OPP 6 Open Limit Off On 1521 IO 1.HWDIs 1.HWDI 122 HWDI,OPP 6 Close Limit Off On	1510	IO 1.HWDIs 1.HWDI 111	HWDI,OPP 1 Open Limit	Off	On
1512 IO 1.HWDIs 1.HWDI 113 HWDI,OPP 2 Open Limit Off On 1513 IO 1.HWDIs 1.HWDI 114 HWDI,OPP 2 Close Limit Off On 1514 IO 1.HWDIs 1.HWDI 115 HWDI,OPP 3 Open Limit Off On 1515 IO 1.HWDIs 1.HWDI 116 HWDI,OPP 3 Close Limit Off On 1516 IO 1.HWDIs 1.HWDI 117 HWDI,OPP 4 Open Limit Off On 1517 IO 1.HWDIs 1.HWDI 118 HWDI,OPP 4 Close Limit Off On 1518 IO 1.HWDIs 1.HWDI 119 HWDI,OPP 5 Open Limit Off On 1519 IO 1.HWDIs 1.HWDI 120 HWDI,OPP 5 Close Limit Off On 1520 IO 1.HWDIs 1.HWDI 121 HWDI,OPP 6 Open Limit Off On 1521 IO 1.HWDIs 1.HWDI 122 HWDI,OPP 6 Close Limit Off On	1511	IO 1.HWDIs 1.HWDI 112	HWDI,OPP 1 Close Limit	Off	On
1513 IO 1.HWDIs 1.HWDI 114 HWDI,OPP 2 Close Limit Off On 1514 IO 1.HWDIs 1.HWDI 115 HWDI,OPP 3 Open Limit Off On 1515 IO 1.HWDIs 1.HWDI 116 HWDI,OPP 3 Close Limit Off On 1516 IO 1.HWDIs 1.HWDI 117 HWDI,OPP 4 Open Limit Off On 1517 IO 1.HWDIs 1.HWDI 118 HWDI,OPP 4 Close Limit Off On 1518 IO 1.HWDIs 1.HWDI 119 HWDI,OPP 5 Open Limit Off On 1519 IO 1.HWDIs 1.HWDI 120 HWDI,OPP 5 Close Limit Off On 1520 IO 1.HWDIs 1.HWDI 121 HWDI,OPP 6 Open Limit Off On 1521 IO 1.HWDIs 1.HWDI 122 HWDI,OPP 6 Close Limit Off On			HWDI,OPP 2 Open Limit		
1514 IO 1.HWDIs 1.HWDI 115 HWDI,OPP 3 Open Limit Off On 1515 IO 1.HWDIs 1.HWDI 116 HWDI,OPP 3 Close Limit Off On 1516 IO 1.HWDIs 1.HWDI 117 HWDI,OPP 4 Open Limit Off On 1517 IO 1.HWDIs 1.HWDI 118 HWDI,OPP 4 Close Limit Off On 1518 IO 1.HWDIs 1.HWDI 119 HWDI,OPP 5 Open Limit Off On 1519 IO 1.HWDIs 1.HWDI 120 HWDI,OPP 5 Close Limit Off On 1520 IO 1.HWDIs 1.HWDI 121 HWDI,OPP 6 Open Limit Off On 1521 IO 1.HWDIs 1.HWDI 122 HWDI,OPP 6 Close Limit Off On					
1515 IO 1.HWDIs 1.HWDI 116 HWDI,OPP 3 Close Limit Off On 1516 IO 1.HWDIs 1.HWDI 117 HWDI,OPP 4 Open Limit Off On 1517 IO 1.HWDIs 1.HWDI 118 HWDI,OPP 4 Close Limit Off On 1518 IO 1.HWDIs 1.HWDI 119 HWDI,OPP 5 Open Limit Off On 1519 IO 1.HWDIs 1.HWDI 120 HWDI,OPP 5 Close Limit Off On 1520 IO 1.HWDIs 1.HWDI 121 HWDI,OPP 6 Open Limit Off On 1521 IO 1.HWDIs 1.HWDI 122 HWDI,OPP 6 Close Limit Off On	†		·		On
1516 IO_1.HWDIs_1.HWDI_117 HWDI,OPP 4 Open Limit Off On 1517 IO_1.HWDIs_1.HWDI_118 HWDI,OPP 4 Close Limit Off On 1518 IO_1.HWDIs_1.HWDI_119 HWDI,OPP 5 Open Limit Off On 1519 IO_1.HWDIs_1.HWDI_120 HWDI,OPP 5 Close Limit Off On 1520 IO_1.HWDIs_1.HWDI_121 HWDI,OPP 6 Open Limit Off On 1521 IO_1.HWDIs_1.HWDI_122 HWDI,OPP 6 Close Limit Off On	1				
1517 IO 1.HWDIs 1.HWDI 118 HWDI,OPP 4 Close Limit Off On 1518 IO 1.HWDIs 1.HWDI 119 HWDI,OPP 5 Open Limit Off On 1519 IO 1.HWDIs 1.HWDI 120 HWDI,OPP 5 Close Limit Off On 1520 IO 1.HWDIs 1.HWDI 121 HWDI,OPP 6 Open Limit Off On 1521 IO 1.HWDIs 1.HWDI 122 HWDI,OPP 6 Close Limit Off On			·		
1518 IO_1.HWDIs_1.HWDI_119 HWDI,OPP 5 Open Limit Off On 1519 IO_1.HWDIs_1.HWDI_120 HWDI,OPP 5 Close Limit Off On 1520 IO_1.HWDIs_1.HWDI_121 HWDI,OPP 6 Open Limit Off On 1521 IO_1.HWDIs_1.HWDI_122 HWDI,OPP 6 Close Limit Off On			'		
1519 IO_1.HWDIs_1.HWDI_120 HWDI,OPP 5 Close Limit Off On 1520 IO_1.HWDIs_1.HWDI_121 HWDI,OPP 6 Open Limit Off On 1521 IO_1.HWDIs_1.HWDI_122 HWDI,OPP 6 Close Limit Off On			,		
1520 IO 1.HWDIs 1.HWDI 121 HWDI,OPP 6 Open Limit Off On 1521 IO 1.HWDIs 1.HWDI 122 HWDI,OPP 6 Close Limit Off On					
1521 IO_1.HWDIs_1.HWDI_122	†		·		
	1		,		
	1522	IO 1.HWDIs 1.HWDI 123	HWDI,OPP 7 Open Limit	Off	On

			Off	On
Coil#	Variable	Description	State	State
1523	IO_1.HWDIs_1.HWDI_124	HWDI,OPP 7 Close Limit	Off	On
1524	IO_1.HWDIs_1.HWDI_125	HWDI,OPP 8 Open Limit	Off	On
1525	IO_1.HWDIs_1.HWDI_126	HWDI,OPP 8 Close Limit	Off	On
1526	IO_1.HWDIs_1.HWDI_127	HWDI,ST4 DIR BV 1 Open Limit	Off	On
1527	IO_1.HWDIs_1.HWDI_128	HWDI,ST4 DIR BV 1 Close Limit	Off	On
1528	IO_1.HWDIs_1.HWDI_129	HWDI,ST4 DIR BV 2 Open Limit	Off	On
1529	IO_1.HWDIs_1.HWDI_130	HWDI,ST4 DIR BV 2 Close Limit	Off	On
1530	IO_1.HWDIs_1.HWDI_131	HWDI,ST4 DIR BV 3 Open Limit	Off	On
1531	IO_1.HWDIs_1.HWDI_132	HWDI,ST4 DIR BV 3 Close Limit	Off	On
1532	IO_1.HWDIs_1.HWDI_133	HWDI,ST4 DIR BV 4 Open Limit	Off	On
1533	IO_1.HWDIs_1.HWDI_134	HWDI,ST4 DIR BV 4 Close Limit	Off	On
1534	IO_1.HWDIs_1.HWDI_135	HWDI,ST4 DIR BV 5 Open Limit	Off	On
1535	IO_1.HWDIs_1.HWDI_136	HWDI,ST4 DIR BV 5 Close Limit	Off	On
1536	IO_1.HWDIs_1.HWDI_137	HWDI,ST4 DIR BV 6 Open Limit	Off	On
1537	IO_1.HWDIs_1.HWDI_138	HWDI,ST4 DIR BV 6 Close Limit	Off	On
1538	IO_1.HWDIs_1.HWDI_139	HWDI,ST4 DIR BV 7 Open Limit	Off	On
1539	IO_1.HWDIs_1.HWDI_140	HWDI,ST4 DIR BV 7 Close Limit	Off	On
1540	IO_1.HWDIs_1.HWDI_141	HWDI,ST4 DIR BV 8 Open Limit	Off	On
1541	IO_1.HWDIs_1.HWDI_142	HWDI,ST4 DIR BV 8 Close Limit	Off	On
1542	IO_1.HWDIs_1.HWDI_143	HWDI,BV 9 Open Limit	Off	On
1543	IO_1.HWDIs_1.HWDI_144	HWDI,BV 9 Close Limit	Off	On
1544	IO_1.HWDIs_1.HWDI_145	HWDI,BV 10 Open Limit	Off	On
1545	IO_1.HWDIs_1.HWDI_146	HWDI,BV 10 Close Limit	Off	On
1546	IO_1.HWDIs_1.HWDI_147	HWDI,BV 11 Open Limit	Off	On
1547	IO_1.HWDIs_1.HWDI_148	HWDI,BV 11 Close Limit	Off	On
1548	IO_1.HWDIs_1.HWDI_149	HWDI,BV 12 Open Limit	Off	On
1549	IO_1.HWDIs_1.HWDI_150	HWDI,BV 12 Close Limit	Off	On
1550	IO_1.HWDIs_1.HWDI_151	HWDI,OPP 9 Open Limit	Off	On
1551	IO_1.HWDIs_1.HWDI_152	HWDI,OPP 9 Close Limit	Off	On
1552	IO_1.HWDIs_1.HWDI_153	HWDI,OPP 10 Open Limit	Off	On
1553	IO_1.HWDIs_1.HWDI_154	HWDI,OPP 10 Close Limit	Off	On
1554	IO_1.HWDIs_1.HWDI_155	HWDI,OPP 11 Open Limit	Off	On
1555	IO_1.HWDIs_1.HWDI_156	HWDI,OPP 11 Close Limit	Off	On
1556	IO_1.HWDIs_1.HWDI_157	HWDI,OPP 12 Open Limit	Off	On
1557	IO_1.HWDIs_1.HWDI_158	HWDI,OPP 12 Close Limit	Off	On
1558	IO_1.HWDIs_1.HWDI_159	HWDI,ST6 DIR BV 1 Open Limit	Off	On
1559	IO_1.HWDIs_1.HWDI_160	HWDI,ST6 DIR BV 1 Close Limit	Off	On
1560	IO_1.HWDIs_1.HWDI_161	HWDI,ST6 DIR BV 2 Open Limit	Off	On
1561	IO_1.HWDIs_1.HWDI_162	HWDI,ST6 DIR BV 2 Close Limit	Off	On
1562	IO_1.HWDIs_1.HWDI_163	HWDI,ST6 DIR BV 3 Open Limit	Off	On
1563	IO 1.HWDIs 1.HWDI 164	HWDI,ST6 DIR BV 3 Close Limit	Off	On
1564	IO 1.HWDIs 1.HWDI 165	HWDI,ST6 DIR BV 4 Open Limit	Off	On
1565	IO_1.HWDIs_1.HWDI_166	HWDI,ST6 DIR BV 4 Close Limit	Off	On
1566	IO 1.HWDIs 1.HWDI 167	HWDI,ST6 DIR BV 5 Open Limit	Off	On
1567	IO 1.HWDIs 1.HWDI 168	HWDI,ST6 DIR BV 5 Close Limit	Off	On
1568	IO 1.HWDIs 1.HWDI 169	HWDI,ST6 DIR BV 6 Open Limit	Off	On
1569	IO 1.HWDIs 1.HWDI 170	HWDI,ST6 DIR BV 6 Close Limit	Off	On
1570	IO 1.HWDIs 1.HWDI 171	HWDI,ST6 DIR BV 7 Open Limit	Off	On
1571	IO 1.HWDIs 1.HWDI 172	HWDI,ST6 DIR BV 7 Close Limit	Off	On
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Coil#	Variable	Description	Off State	On State
1572	IO_1.HWDIs_1.HWDI_173	HWDI,ST6 DIR BV 8 Open Limit	Off	On
1573	IO_1.HWDIs_1.HWDI_174	HWDI,ST6 DIR BV 8 Close Limit	Off	On
1574	IO_1.HWDIs_1.HWDI_175	HWDI,ST1 Direction Indicator	Off	On
1575	IO_1.HWDIs_1.HWDI_176	HWDI,ST2 Direction Indicator	Off	On
1576	IO_1.HWDIs_1.HWDI_177	HWDI,ST3 Direction Indicator	Off	On
1577	IO_1.HWDIs_1.HWDI_178	HWDI,ST4 Direction Indicator	Off	On
1578	IO_1.HWDIs_1.HWDI_179	HWDI,ST5 Direction Indicator	Off	On
1579	IO_1.HWDIs_1.HWDI_180	HWDI,ST6 Direction Indicator	Off	On
1580	IO_1.HWDIs_1.HWDI_181	HWDI,Loss of AC Power	Off	On
1581	IO_1.HWDIs_1.HWDI_182	HWDI,Hazardous Gas Level 1 HIGH	Off	On
1582	IO 1.HWDIs 1.HWDI 183	HWDI,Hazardous Gas Level 1 HIGH HIGH	Off	On
1583	IO 1.HWDIs 1.HWDI 184	HWDI,Gas Detector Failure 1	Off	On
1584	IO 1.HWDIs 1.HWDI 185	HWDI,Fire Alarm 1	Off	On
1585	IO 1.HWDIs 1.HWDI 186	HWDI.Fire Detector Failure 1	Off	On
1586	IO 1.HWDIs 1.HWDI 187	HWDI,Smoke Alarm 1	Off	On
1587	IO 1.HWDIs 1.HWDI 188	HWDI.Smoke Detector Failure 1	Off	On
1588	IO 1.HWDIs 1.HWDI 189	HWDI,Hazardous Gas Level 2 HIGH	Off	On
1589	IO 1.HWDIs 1.HWDI 190	HWDI,Hazardous Gas Level 2 HIGH HIGH	Off	On
1590	IO_1.HWDIs_1.HWDI_191	HWDI,Gas Detector Failure 2	Off	On
1591	IO 1.HWDIs 1.HWDI 192	HWDI,Fire Alarm 2	Off	On
1592	IO 1.HWDIs 1.HWDI 193	HWDI,Fire Detector Failure 2	Off	On
1593	IO 1.HWDIs 1.HWDI 194	HWDI,Smoke Alarm 2	Off	On
1594	IO 1.HWDIs 1.HWDI 195	HWDI,Smoke Detector Failure 2	Off	On
1595	IO 1.HWDIs 1.HWDI 196	HWDI,Hazardous Gas Level 3 HIGH	Off	On
1596	IO 1.HWDIs 1.HWDI 197	HWDI,Hazardous Gas Level 3 HIGH HIGH	Off	On
1597	IO 1.HWDIs 1.HWDI 198	HWDI,Gas Detector Failure 3	Off	On
1598	IO 1.HWDIs 1.HWDI 199	HWDI,Fire Alarm 3	Off	On
1599	IO 1.HWDIs 1.HWDI 200	HWDI,Fire Detector Failure 3	Off	On
1600		HWDI.Smoke Alarm 3	Off	On
	IO_1.HWDIs_1.HWDI_201	HWDI,Smoke Detector Failure 3	Off	On
1601 1602	IO_1.HWDIs_1.HWDI_202 IO_1.HWDIs_1.HWDI_203	HWDI,Hazardous Gas Level 4 HIGH	Off	On
1603	IO_1.HWDIs_1.HWDI_204	HWDI, Hazardous Gas Level 4 HIGH HIGH	Off	On
1604	IO_1.HWDIs_1.HWDI_205	HWDI,Gas Detector Failure 4	Off	On
1605	IO_1.HWDIs_1.HWDI_206	HWDI Fire Detector Failure 4	Off	On
1606	IO_1.HWDIs_1.HWDI_207	HWDI Smake Alarm 4	Off	On
1607	IO_1.HWDIs_1.HWDI_208	HWDI,Smoke Alarm 4	Off	On
1608	IO_1.HWDIs_1.HWDI_209	HWDI,Smoke Detector Failure 4	Off	On
1609	IO_1.HWDIs_1.HWDI_210	HWDI,Building Entry 1	Off	On
1610	IO_1.HWDIs_1.HWDI_211	HWDI,Building Entry 2	Off	On
1611	IO_1.HWDIs_1.HWDI_212	HWDI,Building Entry 3	Off	On
1612	IO_1.HWDIs_1.HWDI_213	HWDI,Building Entry 4	Off	On
1613	IO_1.HWDIs_1.HWDI_214	HWDI,Building Entry 5	Off	On
1614	IO_1.HWDIs_1.HWDI_215	HWDI,Building Entry 6	Off	On
1615	IO 1.HWDIs 1.HWDI 216	HWDI,Low DC Failure Battery Charger	Off	On
1616	IO_1.HWDIs_1.HWDI_217	HWDI,High DC Failure Battery Charger	Off	On
1617	IO_1.HWDIs_1.HWDI_218	HWDI,Battery Charger Alarm	Off	On
1618	IO_1.HWDIs_1.HWDI_219	HWDI,RCV Interposing Panel Fuse Blown	Off	On
1619	IO_1.HWDIs_1.HWDI_220	HWDI,Fall Back Pneumatic System Active	Off	On
1620	IO_1.HWDIs_1.HWDI_221	HWDI,High H2S Level	Off	On

Coil#	Variable	Description	Off State	On State
1621	IO 1.HWDIs 1.HWDI 222	HWDI,H2S Analyzer Failure	Off	On
1622	IO 1.HWDIs 1.HWDI 223	HWDI,H2S Shut-in Alarm	Off	On
1623	IO 1.HWDIs 1.HWDI 224	HWDI,High H2O Level	Off	On
1624	IO 1.HWDIs 1.HWDI 225	HWDI,H2O Analyzer Failure	Off	On
		•	Off	On
1625	IO_1.HWDIs_1.HWDI_226	HWDI,Gas Odorizer Alarm Low Level	1	
1626	IO_1.HWDIs_1.HWDI_227	HWDI,Gas Odorizer Pump Alarm	Off	On
1627	IO_1.HWDIs_1.HWDI_228	HWDI,Corrosion Inhibitor Low Level	Off	On
1628	IO_1.HWDIs_1.HWDI_229	HWDI,Corrosion Inhibitor Pump Alarm	Off	On
1629	IO_1.HWDIs_1.HWDI_230	HWDI,Filter/Separator 1 Hi Tank Level	Off	On
1630	IO_1.HWDIs_1.HWDI_231	HWDI,Filter/Separator 2 Hi Tank Level	Off	On
1631	IO_1.HWDIs_1.HWDI_232	HWDI,Filter/Separator 3 Hi Tank Level	Off	On
1632	IO_1.HWDIs_1.HWDI_233	HWDI,Filter/Separator 1 Hi Differential Press	Off	On
1633	IO_1.HWDIs_1.HWDI_234	HWDI,Filter/Separator 2 Hi Differential Press	Off	On
1634	IO_1.HWDIs_1.HWDI_235	HWDI,Filter/Separator 3 Hi Differential Press	Off	On
1635	IO_1.HWDIs_1.HWDI_236	HWDI,Filter/Separator 4 Hi Differential Press	Off	On
1636	IO_1.HWDIs_1.HWDI_237	HWDI,Filter/Separator 5 Hi Differential Press	Off	On
1637	IO_1.HWDIs_1.HWDI_238	HWDI,Filter/Separator 6 Hi Differential Press	Off	On
1638	IO_1.HWDIs_1.HWDI_239	HWDI,Filter/Separator 1 Hi Sump	Off	On
1639	IO_1.HWDIs_1.HWDI_240	HWDI,Filter/Separator 2 Hi Sump	Off	On
1640	IO_1.HWDIs_1.HWDI_241	HWDI,Filter/Separator 3 Hi Sump	Off	On
1641	IO_1.HWDIs_1.HWDI_242	HWDI,Filter/Separator 4 Hi Sump	Off	On
1642	IO_1.HWDIs_1.HWDI_243	HWDI,Filter/Separator 5 Hi Sump	Off	On
1643	IO_1.HWDIs_1.HWDI_244	HWDI,Filter/Separator 6 Hi Sump	Off	On
1644	IO_1.HWDIs_1.HWDI_245	HWDI,Filter/Separator 7 Hi Sump	Off	On
1645	IO_1.HWDIs_1.HWDI_246	HWDI,Filter/Separator 8 Hi Sump	Off	On
1646	IO_1.HWDIs_1.HWDI_247	HWDI,Filter/Separator 9 Hi Sump	Off	On
1647	IO_1.HWDIs_1.HWDI_248	HWDI,Filter/Separator 10 Hi Sump	Off	On
1648	IO_1.HWDIs_1.HWDI_249	HWDI,Filter/Separator 11 Hi Sump	Off	On
1649	IO_1.HWDIs_1.HWDI_250	HWDI,Filter/Separator 12 Hi Sump	Off	On
1650	IO_1.HWDIs_1.HWDI_251	HWDI,Filter/Separator 1 Hi Hi Sump	Off	On
1651	IO_1.HWDIs_1.HWDI_252	HWDI,Filter/Separator 2 Hi Hi Sump	Off	On
1652	IO_1.HWDIs_1.HWDI_253	HWDI,Filter/Separator 3 Hi Hi Sump	Off	On
1653	IO_1.HWDIs_1.HWDI_254	HWDI,Filter/Separator 4 Hi Hi Sump	Off	On
1654	IO_1.HWDIs_1.HWDI_255	HWDI,Filter/Separator 5 Hi Hi Sump	Off	On
1655	IO_1.HWDIs_1.HWDI_256	HWDI,Filter/Separator 6 Hi Hi Sump	Off	On
1656	IO_1.HWDIs_1.HWDI_257	HWDI,Filter/Separator 7 Hi Hi Sump	Off	On
1657	IO_1.HWDIs_1.HWDI_258	HWDI,Filter/Separator 8 Hi Hi Sump	Off	On
1658	IO_1.HWDIs_1.HWDI_259	HWDI,Filter/Separator 9 Hi Hi Sump	Off	On
1659	IO_1.HWDIs_1.HWDI_260	HWDI,ilter/Separator 10 Hi Hi Sump	Off	On
1660	IO_1.HWDIs_1.HWDI_261	HWDI,Filter/Separator 11 Hi Hi Sump	Off	On
1661	IO 1.HWDIs 1.HWDI 262	HWDI,Filter/Separator 12 Hi Hi Sump	Off	On
1662	IO 1.HWDIs 1.HWDI 263	HWDI,Turbine Meter HIGH Differential	Off	On
1663	IO_1.HWDIs_1.HWDI_264	HWDI,Rotary Meter HIGH Differential BYPASS	Off	On
1664	IO 1.HWDIs 1.HWDI 265	HWDI,Auto Adjust Turbine 1 Alarm	Off	On
1665	IO_1.HWDIs_1.HWDI_266	HWDI,Auto Adjust Turbine 2 Alarm	Off	On
1666	IO 1.HWDIs 1.HWDI 267	HWDI,Auto Adjust Turbine 3 Alarm	Off	On
1667	IO_1.HWDIs_1.HWDI_268	HWDI,Auto Adjust Turbine 4 Alarm	Off	On
1668	IO 1.HWDIs 1.HWDI 269	HWDI,Auto Adjust Turbine 5 Alarm	Off	On
1669	IO 1.HWDIs 1.HWDI 270	HWDI,Auto Adjust Turbine 6 Alarm	Off	On
1009	10_1.11VVD13_1.11VVD1_2/10	TITE , Auto Aujust Turbine V Alaini	UII	Oii

0-11#	Madalala	Described to	Off	On
Coil#	Variable	Description	State	State
1670	IO_1.HWDIs_1.HWDI_271	HWDI,Auto Adjust Turbine 7 Alarm	Off	On
1671	IO_1.HWDIs_1.HWDI_272	HWDI,Auto Adjust Turbine 8 Alarm	Off	On
1672	IO_1.HWDIs_1.HWDI_273	HWDI,Auto Adjust Turbine 9 Alarm	Off	On
1673	IO_1.HWDIs_1.HWDI_274	HWDI,Auto Adjust Turbine 10 Alarm	Off	On
1674	IO_1.HWDIs_1.HWDI_275	HWDI,Auto Adjust Turbine 11 Alarm	Off	On
1675	IO_1.HWDIs_1.HWDI_276	HWDI,Auto Adjust Turbine 12 Alarm	Off	On
1676	IO_1.HWDIs_1.HWDI_277	HWDI,Ultrasonic 1 DATA not Valid	Off	On
1677	IO_1.HWDIs_1.HWDI_278	HWDI,Ultrasonic 2 DATA not Valid	Off	On
1678	IO_1.HWDIs_1.HWDI_279	HWDI,Ultrasonic 3 DATA not Valid	Off	On
1679	IO_1.HWDIs_1.HWDI_280	HWDI,Ultrasonic 4 DATA not Valid	Off	On
1680	IO_1.HWDIs_1.HWDI_281	HWDI,Ultrasonic 5 DATA not Valid	Off	On
1681	IO_1.HWDIs_1.HWDI_282	HWDI,Ultrasonic 6 DATA not Valid	Off	On
1682	IO_1.HWDIs_1.HWDI_283	HWDI,Ultrasonic 7 DATA not Valid	Off	On
1683	IO_1.HWDIs_1.HWDI_284	HWDI,Ultrasonic 8 DATA not Valid	Off	On
1684	IO_1.HWDIs_1.HWDI_285	HWDI,Ultrasonic 9 DATA not Valid	Off	On
1685	IO_1.HWDIs_1.HWDI_286	HWDI,Ultrasonic 10 DATA not Valid	Off	On
1686	IO_1.HWDIs_1.HWDI_287	HWDI,Ultrasonic 11 DATA not Valid	Off	On
1687	IO_1.HWDIs_1.HWDI_288	HWDI,Ultrasonic 12 DATA not Valid	Off	On
1688	IO_1.HWDIs_1.HWDI_289	HWDI,Ultrasonic Meter Partial Failure	Off	On
1689	IO_1.HWDIs_1.HWDI_290	HWDI,Chromatograph Alarm	Off	On
1690	IO_1.HWDIs_1.HWDI_291	HWDI,User DI 1	Off	On
1691	IO_1.HWDIs_1.HWDI_292	HWDI,User DI 2	Off	On
1692	IO_1.HWDIs_1.HWDI_293	HWDI,User DI 3	Off	On
1693	IO_1.HWDIs_1.HWDI_294	HWDI,User DI 4	Off	On
1694	IO_1.HWDIs_1.HWDI_295	HWDI,User DI 5	Off	On
1695	IO_1.HWDIs_1.HWDI_296	HWDI,User DI 6	Off	On
1696	IO_1.HWDIs_1.HWDI_297	HWDI,User DI 7	Off	On
1697	IO_1.HWDIs_1.HWDI_298	HWDI,User DI 8	Off	On
1698	IO_1.HWDIs_1.HWDI_299	HWDI,User DI 9	Off	On
1699	IO_1.HWDIs_1.HWDI_300	HWDI,User DI 10	Off	On
1700	IO_1.HWDIs_1.HWDI_301	HWDI,User DI 11	Off	On
1701	IO_1.HWDIs_1.HWDI_302	HWDI,User DI 12	Off	On
1702	IO_1.HWDIs_1.HWDI_303	HWDI,User DI 13	Off	On
1703	IO_1.HWDIs_1.HWDI_304	HWDI,User DI 14	Off	On
1704	IO_1.HWDIs_1.HWDI_305	HWDI,User DI 15	Off	On
1705	IO_1.HWDIs_1.HWDI_306	HWDI,User DI 16	Off	On
1706	IO_1.HWDIs_1.HWDI_307	HWDI,User DI 17	Off	On
1707	IO_1.HWDIs_1.HWDI_308	HWDI,User DI 18	Off	On
1708	IO_1.HWDIs_1.HWDI_309	HWDI,User DI 19	Off	On
1709	IO_1.HWDIs_1.HWDI_310	HWDI,User DI 20	Off	On
1710	STC.STC_1.PID_SEL_1.ST_EN	Station 1 Control - Station Control Enabled	Disabled	Enabled
1711	STC.STC_1.PID_Pmry3.ENABLE	Station 1 Control - Flow Control Enabled	Disabled	Enabled
1712	STC.STC 1.PID FLOW.ENABLE	Station 1 Control - Primary 3 Control Enabled	Disabled	Enabled
	-	Station 1 Control - Pressure Override Control		
1713	STC.STC_1.PID_POVRD.ENABLE	Enabled Station 1 Control - Maximum Allowable Operating	Disabled	Enabled
1714	STC.STC_1.PID_MAOP.ENABLE	Pressure Protection Control Enabled Station 1 Control - Maximum Allowable Operating Pressure Protection Control Enabled Station 1 Control - Override Loop 1 Control	Disabled	Enabled
1715	STC.STC_1.PID_Ovrd1.ENABLE	Enabled Station 1 Control - Override Loop 1 Control Enabled Station 1 Control - Minimum Outlet Pressure	Disabled	Enabled
1716	STC.STC_1.PID_OUTLO.ENABLE	Override Control Enabled	Disabled	Enabled
1717	STC.STC 1.PID Ovrd2.ENABLE	Station 1 Control - Override Loop 2 Control	Disabled	Enabled

Coil#	Variable	Description	Off State	On State
	Turistic Control of the Control of t	Enabled	Guito	Otato
1718	STC.STC 1.MANMODE	Station 1 Control - Station Control Manual Control	Disabled	Enabled
1719	STC.STC 2.PID SEL 1.ST EN	Station 2 Control - Station Control Enabled	Disabled	Enabled
1720	STC.STC_2.PID_Pmry3.ENABLE	Station 2 Control - Flow Control Enabled	Disabled	Enabled
1721	STC.STC 2.PID FLOW.ENABLE	Station 2 Control - Primary 3 Control Enabled	Disabled	Enabled
		Station 2 Control - Pressure Override Control	Dischlad	En ablad
1722	STC.STC_2.PID_POVRD.ENABLE	Enabled Station 2 Control - Maximum Allowable Operating	Disabled	Enabled
1723	STC.STC_2.PID_MAOP.ENABLE	Pressure Protection Control Enabled Station 2 Control - Override Loop 1 Control	Disabled	Enabled
1724	STC.STC_2.PID_Ovrd1.ENABLE	Enabled	Disabled	Enabled
1725	STC.STC_2.PID_OUTLO.ENABLE	Station 2 Control - Minimum Outlet Pressure Override Control Enabled	Disabled	Enabled
1726	STC.STC 2.PID Ovrd2.ENABLE	Station 2 Control - Override Loop 2 Control Enabled	Disabled	Enabled
1727	STC.STC_2.MANMODE	Station 2 Control - Station Control Manual Control	Disabled	Enabled
1728	STC.STC_3.PID_SEL_1.ST_EN	Station 3 Control - Station Control Enabled	Disabled	Enabled
1729	STC.STC_3.PID_Pmry3.ENABLE	Station 3 Control - Flow Control Enabled	Disabled	Enabled
1730	STC.STC_3.PID_FLOW.ENABLE	Station 3 Control - Primary 3 Control Enabled	Disabled	Enabled
1731	STC.STC_3.PID_POVRD.ENABLE	Station 3 Control - Pressure Override Control Enabled	Disabled	Enabled
1732	STC.STC 3.PID MAOP.ENABLE	Station 3 Control - Maximum Allowable Operating Pressure Protection Control Enabled	Disabled	Enabled
4700	OTO OTO O DID OWNER FMADILE	Station 3 Control - Override Loop 1 Control	Dischlad	En ablad
1733	STC.STC_3.PID_Ovrd1.ENABLE	Enabled Station 3 Control - Minimum Outlet Pressure	Disabled	Enabled
1734	STC.STC_3.PID_OUTLO.ENABLE	Override Control Enabled	Disabled	Enabled
1735	STC.STC_3.PID_Ovrd2.ENABLE	Station 3 Control - Override Loop 2 Control Enabled	Disabled	Enabled
1736	STC.STC_3.MANMODE	Station 3 Control - Station Control Manual Control	Disabled	Enabled
1737	STC.STC_4.PID_SEL_1.ST_EN	Station 4 Control - Station Control Enabled	Disabled	Enabled
1738	STC.STC_4.PID_Pmry3.ENABLE	Station 4 Control - Flow Control Enabled	Disabled	Enabled
1739	STC.STC_4.PID_FLOW.ENABLE	Station 4 Control - Primary 3 Control Enabled	Disabled	Enabled
1740	STC.STC_4.PID_POVRD.ENABLE	Station 4 Control - Pressure Override Control Enabled	Disabled	Enabled
1741	STC.STC_4.PID_MAOP.ENABLE	Station 4 Control - Maximum Allowable Operating Pressure Protection Control Enabled	Disabled	Enabled
1742	STC.STC 4.PID Ovrd1.ENABLE	Station 4 Control - Override Loop 1 Control Enabled	Disabled	Enabled
1743	STC.STC 4.PID OUTLO.ENABLE	Station 4 Control - Minimum Outlet Pressure Override Control Enabled	Disabled	Enabled
		Station 4 Control - Override Loop 2 Control		
1744	STC.STC_4.PID_Ovrd2.ENABLE	Enabled	Disabled	Enabled
1745	STC.STC_4.MANMODE	Station 4 Control - Station Control Manual Control	Disabled	Enabled
1746	STC.STC_5.PID_SEL_1.ST_EN	Station 5 Control - Station Control Enabled	Disabled	Enabled
1747	STC.STC_5.PID_Pmry3.ENABLE	Station 5 Control - Flow Control Enabled	Disabled	Enabled
1748	STC.STC_5.PID_FLOW.ENABLE	Station 5 Control - Primary 3 Control Enabled Station 5 Control - Pressure Override Control	Disabled	Enabled
1749	STC.STC_5.PID_POVRD.ENABLE	Enabled Station 5 Control - Maximum Allowable Operating	Disabled	Enabled
1750	STC.STC_5.PID_MAOP.ENABLE	Pressure Protection Control Enabled Station 5 Control - Override Loop 1 Control	Disabled	Enabled
1751	STC.STC_5.PID_Ovrd1.ENABLE	Enabled	Disabled	Enabled
1752	STC.STC_5.PID_OUTLO.ENABLE	Station 5 Control - Minimum Outlet Pressure Override Control Enabled	Disabled	Enabled
1753	STC.STC_5.PID_Ovrd2.ENABLE	Station 5 Control - Override Loop 2 Control Enabled	Disabled	Enabled
1754	STC.STC_5.MANMODE	Station 5 Control - Station Control Manual Control	Disabled	Enabled
1755	STC.STC_6.PID_SEL_1.ST_EN	Station 6 Control - Station Control Enabled	Disabled	Enabled
1756	STC.STC_6.PID_Pmry3.ENABLE	Station 6 Control - Flow Control Enabled	Disabled	Enabled
1757	STC.STC_6.PID_FLOW.ENABLE	Station 6 Control - Primary 3 Control Enabled	Disabled	Enabled

Coil#	Variable	Description	Off State	On State
COII#	Variable	Station 6 Control - Pressure Override Control	State	State
1758	STC.STC_6.PID_POVRD.ENABLE	Enabled Station 6 Control - Maximum Allowable Operating	Disabled	Enabled
1759	STC.STC_6.PID_MAOP.ENABLE	Pressure Protection Control Enabled	Disabled	Enabled
1760	STC.STC 6.PID Ovrd1.ENABLE	Station 6 Control - Override Loop 1 Control Enabled	Disabled	Enabled
1761	STC.STC_6.PID_OUTLO.ENABLE	Station 6 Control - Minimum Outlet Pressure Override Control Enabled	Disabled	Enabled
1760	STO STO S DID Overed S ENABLE	Station 6 Control - Override Loop 2 Control	Disabled	Chablad
1762 1763	STC.STC_6.PID_Ovrd2.ENABLE STC.STC 6.MANMODE	Enabled Station 6 Control - Station Control Manual Control	Disabled Disabled	Enabled Enabled
1764	MB.SPARE	****** RESERVED FOR FUTURE USE ******	Disabled	Enabled
1765	MB.SPARE	****** RESERVED FOR FUTURE USE ******		
1766	MB.SPARE	****** RESERVED FOR FUTURE USE ******		
1767	MB.SPARE	****** RESERVED FOR FUTURE USE ******		
1768	MB.SPARE	****** RESERVED FOR FUTURE USE ******		
1769	MB.SPARE	****** RESERVED FOR FUTURE USE ******		
1770	MB.SPARE	****** RESERVED FOR FUTURE USE ******		
1771	MB.SPARE	****** RESERVED FOR FUTURE USE ******		
1772	MB.SPARE	****** RESERVED FOR FUTURE USE ******		
1773	MB.SPARE	****** RESERVED FOR FUTURE USE ******		
1774	MB.SPARE	****** RESERVED FOR FUTURE USE ******		
1775	MB.SPARE	****** RESERVED FOR FUTURE USE ******		
1776	MB.SPARE	****** RESERVED FOR FUTURE USE ******		
1777	MB.SPARE	****** RESERVED FOR FUTURE USE ******		
1778	MB.SPARE	****** RESERVED FOR FUTURE USE ******		
1779	MB.SPARE	****** RESERVED FOR FUTURE USE ******		
1780	MB.SPARE	****** RESERVED FOR FUTURE USE ******		
1781	MB.SPARE	****** RESERVED FOR FUTURE USE ******		
4700	TO DV 4 MANIPOO	Run Switching - Run n - Block Valve 1 - Valve	Oleren	0
1782	TS.BV_1.MANPOS	Position Command Run Switching - Run n - Block Valve 1 - Valve	Close	Open
1783	TS.BV_1.BLIND	Position Limit Switch Feedback	Blind	Limit Switch
1784	TS.BV_1.IBOLS	Run Switching - Run n - Block Valve 1 - Open Limit Switch Run Switching - Run n - Block Valve 1 - Close	Off	Opened
1785	TS.BV_1.IBCLS	Limit Switch	Off	Closed
1786	TS.BV 1.INVRT	Run Switching - Run n - Block Valve 1 - Invert Valve Control Outputs	Off	Invert
1700	13.bv_1.llvvK1	Run Switching - Run n - Block Valve 2 - Valve	Oil	iliveit
1787	TS.BV_2.MANPOS	Position Command	Close	Open
1788	TS.BV_2.BLIND	Run Switching - Run n - Block Valve 2 - Valve Position Limit Switch Feedback	Blind	Limit Switch
1789	TS.BV_2.IBOLS	Run Switching - Run n - Block Valve 2 - Open Limit Switch	Off	Opened
1790	TS.BV_2.IBCLS	Run Switching - Run n - Block Valve 2 - Close Limit Switch	Off	Closed
1791	TS.BV_2.INVRT	Run Switching - Run n - Block Valve 2 - Invert Valve Control Outputs	Off	Invert
1792	TS.BV 3.MANPOS	Run Switching - Run n - Block Valve 3 - Valve Position Command	Close	Open
1793	TS.BV 3.BLIND	Run Switching - Run n - Block Valve 3 - Valve Position Limit Switch Feedback	Blind	Limit Switch
1794	TS.BV 3.IBOLS	Run Switching - Run n - Block Valve 3 - Open Limit Switch	Off	Opened
1734	_	Run Switching - Run n - Block Valve 3 - Close	OII .	Opened
1795	TS.BV_3.IBCLS	Limit Switch Run Switching - Run n - Block Valve 3 - Invert	Off	Closed
1796	TS.BV_3.INVRT	Valve Control Outputs Run Switching - Run n - Block Valve 4 - Valve	Off	Invert
1797	TS.BV_4.MANPOS	Position Command	Close	Open

Coil#	Variable	Description	Off State	On State
1798	TS.BV 4.BLIND	Run Switching - Run n - Block Valve 4 - Valve Position Limit Switch Feedback	Blind	Limit Switch
1799	TS.BV 4.IBOLS	Run Switching - Run n - Block Valve 4 - Open Limit Switch	Off	Opened
1800	TS.BV 4.IBCLS	Run Switching - Run n - Block Valve 4 - Close Limit Switch	Off	Closed
1801	TS.BV 4.INVRT	Run Switching - Run n - Block Valve 4 - Invert Valve Control Outputs	Off	Invert
1802	TS.BV 5.MANPOS	Run Switching - Run n - Block Valve 5 - Valve Position Command	Close	Open
1803	TS.BV 5.BLIND	Run Switching - Run n - Block Valve 5 - Valve Position Limit Switch Feedback	Blind	Limit Switch
1804	TS.BV 5.IBOLS	Run Switching - Run n - Block Valve 5 - Open Limit Switch	Off	Opened
1805	TS.BV_5.IBCLS	Run Switching - Run n - Block Valve 5 - Close Limit Switch	Off	Closed
1806	TS.BV 5.INVRT	Run Switching - Run n - Block Valve 5 - Invert Valve Control Outputs	Off	Invert
1807	TS.BV 6.MANPOS	Run Switching - Run n - Block Valve 6 - Valve Position Command	Close	Open
1808	TS.BV 6.BLIND	Run Switching - Run n - Block Valve 6 - Valve Position Limit Switch Feedback	Blind	Limit Switch
1809	TS.BV 6.IBOLS	Run Switching - Run n - Block Valve 6 - Open Limit Switch	Off	Opened
1810	TS.BV 6.IBCLS	Run Switching - Run n - Block Valve 6 - Close Limit Switch	Off	Closed
1811	TS.BV 6.INVRT	Run Switching - Run n - Block Valve 6 - Invert Valve Control Outputs	Off	Invert
1812	TS.BV 7.MANPOS	Run Switching - Run n - Block Valve 7 - Valve Position Command	Close	Open
1813	TS.BV 7.BLIND	Run Switching - Run n - Block Valve 7 - Valve Position Limit Switch Feedback	Blind	Limit Switch
1814	TS.BV 7.IBOLS	Run Switching - Run n - Block Valve 7 - Open Limit Switch	Off	Opened
1815	TS.BV 7.IBCLS	Run Switching - Run n - Block Valve 7 - Close Limit Switch	Off	Closed
1816	TS.BV 7.INVRT	Run Switching - Run n - Block Valve 7 - Invert Valve Control Outputs	Off	Invert
1817	TS.BV 8.MANPOS	Run Switching - Run n - Block Valve 8 - Valve Position Command	Close	Open
1818	TS.BV_8.BLIND	Run Switching - Run n - Block Valve 8 - Valve Position Limit Switch Feedback	Blind	Limit Switch
1819	TS.BV 8.IBOLS	Run Switching - Run n - Block Valve 8 - Open Limit Switch	Off	Opened
1820	TS.BV 8.IBCLS	Run Switching - Run n - Block Valve 8 - Close Limit Switch	Off	Closed
1821	TS.BV 8.INVRT	Run Switching - Run n - Block Valve 8 - Invert Valve Control Outputs	Off	Invert
1822	TS.TC 1.ST1 TS CHKFLOW	Run Switching - Station 1 - Check Flow Rate Enabled / Disabled	Disabled	Enabled
1823	TS.TC 1.ST1 TS EN	Run Switching - Station 1 - Meter Run Staging Enabled / Disabled	Disabled	Enabled
1824	TS.TC 1.ST2 TS CHKFLOW	Run Switching - Station 2 - Check Flow Rate Enabled / Disabled	Disabled	Enabled
1825	TS.TC 1.ST2 TS EN	Run Switching - Station 2 - Meter Run Staging Enabled / Disabled	Disabled	Enabled
1826	TS.TC 1.ST3 TS CHKFLOW	Run Switching - Station 3 - Check Flow Rate Enabled / Disabled	Disabled	Enabled
1827	TS.TC 1.ST3 TS EN	Run Switching - Station 3 - Meter Run Staging Enabled / Disabled	Disabled	Enabled
1828	TS.TC 1.ST4 TS CHKFLOW	Run Switching - Station 4 - Check Flow Rate Enabled / Disabled	Disabled	Enabled
1829	TS.TC 1.ST4 TS EN	Run Switching - Station 4 - Meter Run Staging Enabled / Disabled	Disabled	Enabled
1830	TS.TC 1.ST5 TS CHKFLOW	Run Switching - Station 5 - Check Flow Rate Enabled / Disabled	Disabled	Enabled
1831	TS.TC_1.ST5_TS_EN	Run Switching - Station 5 - Meter Run Staging Enabled / Disabled	Disabled	Enabled
1832	TS.TC_1.ST6_TS_CHKFLOW	Run Switching - Station 6 - Check Flow Rate	Disabled	Enabled

Coil#	Variable	Description	Off State	On State
	Turistic .	Enabled / Disabled	Ciaro	Giaio
1833	TS.TC_1.ST6_TS_EN	Run Switching - Station 6 - Meter Run Staging Enabled / Disabled	Disabled	Enabled
1834	TS.TC_1.TSO_1.CLEARFAIL	Run Switching - Run n - Block Valve 1 - Clear Failure	Off	Reset
1835	TS.TC_1.TSO_1.FAIL	Run Switching - Run n - Block Valve 1 - Valve Failed	Normal	Fail
1836	TS.TC_1.TSO_1.MANMODE	Run Switching - Run n - Block Valve 1 - Manual / Auto Mode	Auto	Manual
1837	TS.TC_1.TSO_1.TUBEOPEN	Run Switching - Run n - Block Valve 1 - Tube is open	Off	Open
1838	TS.TC_1.TSO_2.CLEARFAIL	Run Switching - Run n - Block Valve 2 - Clear Failure	Off	Reset
1839	TS.TC 1.TSO 2.FAIL	Run Switching - Run n - Block Valve 2 - Valve Failed	Normal	Fail
1840	TS.TC_1.TSO_2.MANMODE	Run Switching - Run n - Block Valve 2 - Manual / Auto Mode	Auto	Manual
1841	TS.TC_1.TSO_2.TUBEOPEN	Run Switching - Run n - Block Valve 2 - Tube is open	Off	Open
1842	TS.TC 1.TSO 3.CLEARFAIL	Run Switching - Run n - Block Valve 3 - Clear Failure	Off	Reset
1843	TS.TC 1.TSO 3.FAIL	Run Switching - Run n - Block Valve 3 - Valve Failed	Normal	Fail
1043	13.1C_1.13O_3.FAIL	Run Switching - Run n - Block Valve 3 - Manual /		
1844	TS.TC_1.TSO_3.MANMODE	Auto Mode Run Switching - Run n - Block Valve 3 - Tube is	Auto	Manual
1845	TS.TC_1.TSO_3.TUBEOPEN	open Run Switching - Run n - Block Valve 4 - Clear	Off	Open
1846	TS.TC_1.TSO_4.CLEARFAIL	Failure Run Switching - Run n - Block Valve 4 - Valve	Off	Reset
1847	TS.TC_1.TSO_4.FAIL	Failed	Normal	Fail
1848	TS.TC_1.TSO_4.MANMODE	Run Switching - Run n - Block Valve 4 - Manual / Auto Mode	Auto	Manual
1849	TS.TC_1.TSO_4.TUBEOPEN	Run Switching - Run n - Block Valve 4 - Tube is open	Off	Open
1850	TS.TC_1.TSO_5.CLEARFAIL	Run Switching - Run n - Block Valve 5 - Clear Failure	Off	Reset
1851	TS.TC_1.TSO_5.FAIL	Run Switching - Run n - Block Valve 5 - Valve Failed	Normal	Fail
1852	TS.TC_1.TSO_5.MANMODE	Run Switching - Run n - Block Valve 5 - Manual / Auto Mode	Auto	Manual
1853	TS.TC 1.TSO 5.TUBEOPEN	Run Switching - Run n - Block Valve 5 - Tube is open	Off	Open
1854	TS.TC_1.TSO_6.CLEARFAIL	Run Switching - Run n - Block Valve 6 - Clear Failure	Off	Reset
1855	TS.TC_1.TSO_6.FAIL	Run Switching - Run n - Block Valve 6 - Valve Failed	Normal	Fail
1856	TS.TC 1.TSO 6.MANMODE	Run Switching - Run n - Block Valve 6 - Manual / Auto Mode	Auto	Manual
1857	TS.TC 1.TSO 6.TUBEOPEN	Run Switching - Run n - Block Valve 6 - Tube is open	Off	Open
1858	TS.TC 1.TSO 7.CLEARFAIL	Run Switching - Run n - Block Valve 7 - Clear Failure	Off	Reset
1859	TS.TC 1.TSO 7.FAIL	Run Switching - Run n - Block Valve 7 - Valve Failed	Normal	Fail
1860	TS.TC 1.TSO 7.MANMODE	Run Switching - Run n - Block Valve 7 - Manual / Auto Mode	Auto	Manual
1861	TS.TC 1.TSO 7.TUBEOPEN	Run Switching - Run n - Block Valve 7 - Tube is open	Off	Open
1862	TS.TC 1.TSO 8.CLEARFAIL	Run Switching - Run n - Block Valve 8 - Clear Failure	Off	Reset
1863	TS.TC 1.TSO 8.FAIL	Run Switching - Run n - Block Valve 8 - Valve Failed	Normal	Fail
1864	TS.TC 1.TSO 8.MANMODE	Run Switching - Run n - Block Valve 8 - Manual / Auto Mode	Auto	Manual
1865	TS.TC 1.TSO 8.TUBEOPEN	Run Switching - Run n - Block Valve 8 - Tube is open	Off	Open
1866	MB.Spare			- F

Coil#	Variable	Description	Off State	On State
1867	MB.Spare			
1868	MB.Spare			
1869	MB.Spare			
1870	MB.Spare			
1871	MB.Spare			
1872	MB.Spare			
1873	MB.Spare			
1874	MB.Spare			
1875	MB.Spare			
1876	MB.Spare			
1877	MB.Spare			
1878	MB.Spare			
1879	MB.Spare			
1880	MB.Spare			
1881	MB.Spare			
1882	BI.ST1_DIR	Station n + 1 - Indicated Direction - n = 1, 3,	Forward	Reverse
1883	BI.ST2_OLS3_STATE	Station 2 - Block Valve 1 - Required Closed State for forward direction	Off	On
1884	BI.ST2_OLS4_STATE	Station 2 - Block Valve 2 - Required Closed State for forward direction	Off	On
1885	BI.ST2 OLS1 STATE	Station 2 - Block Valve 1 - Required Opened State for forward direction	Off	On
1886	BI.ST2_OLS2_STATE	Station 2 - Block Valve 2 - Required Opened State for forward direction	Off	On
1887	BI.ST2 CLS1 STATUS	Station 2 - Block Valve 1 - Closed Status	Off	Closed
1888	BI.ST2 CLS2 STATUS	Station 2 - Block Valve 2 - Closed Status	Off	Closed
1889	BI.ST2 OLS1 STATUS	Station 2 - Block Valve 1 - Opened Status	Off	Opened
1890	BI.ST2_OLS2_STATUS	Station 2 - Block Valve 2 - Opened Status	Off	Opened
		Station 2 - Programmed Control Requested		
1891	BC.ST2_BIDIR_EN	Direction Bi-directional Control - Station 2 - Block Valve 1 -	Forward	Reverse
1892	BC.ST_BIDIR_CTL_2.BV1.MANPOS	Valve Position Command Bi-directional Control - Station 2 - Block Valve 1 -	Close	Open
1893	BC.ST_BIDIR_CTL_2.BV1.IBOLS	Valve Position Open Limit Switch Bi-directional Control - Station 2 - Block Valve 1 -	Off	Opened
1894	BC.ST_BIDIR_CTL_2.BV1.IBCLS	Valve Position Close Limit Switch	Off	Closed
1895	BC.ST_BIDIR_CTL_2.BV2.MANPOS	Bi-directional Control - Station 2 - Block Valve 2 - Valve Position Command	Close	Open
1896	BC.ST_BIDIR_CTL_2.BV2.IBOLS	Bi-directional Control - Station 2 - Block Valve 2 - Valve Position Open Limit Switch	Off	Opened
1897	BC.ST BIDIR CTL 2.BV2.IBCLS	Bi-directional Control - Station 2 - Block Valve 2 - Valve Position Close Limit Switch	Off	Closed
1898	BC.ST BIDIR CTL 2.BV3.MANPOS	Bi-directional Control - Station 2 - Block Valve 3 - Valve Position Command	Close	Open
1899	BC.ST_BIDIR_CTL_2.BV3.IBOLS	Bi-directional Control - Station 2 - Block Valve 3 - Valve Position Open Limit Switch	Off	Opened
1900	BC.ST BIDIR CTL 2.BV3.IBCLS	Bi-directional Control - Station 2 - Block Valve 3 - Valve Position Close Limit Switch	Off	Closed
1901	BC.ST_BIDIR_CTL_2.BV4.MANPOS	Bi-directional Control - Station 2 - Block Valve 4 - Valve Position Command	Close	Open
1902	BC.ST_BIDIR_CTL_2.BV4.IBOLS	Bi-directional Control - Station 2 - Block Valve 4 - Valve Position Open Limit Switch	Off	Opened
ļ		Bi-directional Control - Station 2 - Block Valve 4 - Valve Position Close Limit Switch	Off	Closed
1903	L BC ST_BIDIR_CTL_2 BV4 IBCLS		, U.	0.0004
1903 1904	BC.ST_BIDIR_CTL_2.BV4.IBCLS BC.ST_BIDIR_CTL_2.BV5.MANPOS	Bi-directional Control - Station 2 - Block Valve 5 - Valve Position Command	Close	Open
		Bi-directional Control - Station 2 - Block Valve 5 - Valve Position Command Bi-directional Control - Station 2 - Block Valve 5 - Valve Position Open Limit Switch	Close	Open Opened
1904	BC.ST_BIDIR_CTL_2.BV5.MANPOS	Bi-directional Control - Station 2 - Block Valve 5 - Valve Position Command Bi-directional Control - Station 2 - Block Valve 5 -		

Coil#	Variable	Description	Off State	On State
		Valve Position Command		
1908	BC.ST_BIDIR_CTL_2.BV6.IBOLS	Bi-directional Control - Station 2 - Block Valve 6 - Valve Position Open Limit Switch	Off	Opened
1909	BC.ST_BIDIR_CTL_2.BV6.IBCLS	Bi-directional Control - Station 2 - Block Valve 6 - Valve Position Close Limit Switch	Off	Closed
1910	BC.ST_BIDIR_CTL_2.BV7.MANPOS	Bi-directional Control - Station 2 - Block Valve 7 - Valve Position Command	Close	Open
1911	BC.ST_BIDIR_CTL_2.BV7.IBOLS	Bi-directional Control - Station 2 - Block Valve 7 - Valve Position Open Limit Switch	Off	Opened
1912	BC.ST_BIDIR_CTL_2.BV7.IBCLS	Bi-directional Control - Station 2 - Block Valve 7 - Valve Position Close Limit Switch Bi-directional Control - Station 2 - Block Valve 8 -	Off	Closed
1913	BC.ST_BIDIR_CTL_2.BV8.MANPOS	Valve Position Command Bi-directional Control - Station 2 - Block Valve 8 -	Close	Open
1914	BC.ST_BIDIR_CTL_2.BV8.IBOLS	Valve Position Open Limit Switch Bi-directional Control - Station 2 - Block Valve 8 -	Off	Opened
1915	BC.ST_BIDIR_CTL_2.BV8.IBCLS	Valve Position Close Limit Switch	Off	Closed
1916	BI.ST3_DIR	Station n + 1 - Indicated Direction - n = 1, 3, 5 Station 4 - Block Valve 1 - Required Closed State	Forward	Reverse
1917	BI.ST4_OLS3_STATE	for forward direction	Off	On
1918	BI.ST4_OLS4_STATE	Station 4 - Block Valve 2 - Required Closed State for forward direction	Off	On
1919	BI.ST4_OLS1_STATE	Station 4 - Block Valve 1 - Required Opened State for forward direction	Off	On
1920	BI.ST4_OLS2_STATE	Station 4 - Block Valve 2 - Required Opened State for forward direction	Off	On
1921	BI.ST4_CLS1_STATUS	Station 4 - Block Valve 1 - Closed Status	Off	Closed
1922	BI.ST4_CLS2_STATUS	Station 4 - Block Valve 2 - Closed Status	Off	Closed
1923	BI.ST4_OLS1_STATUS	Station 4 - Block Valve 1 - Opened Status	Off	Opened
1924	BI.ST4_OLS2_STATUS	Station 4 - Block Valve 2 - Opened Status	Off	Opened
1925	BC.ST4_BIDIR_EN	Station 4 - Programmed Control Requested Direction Bi-directional Control - Station 4 - Block Valve 1 -	Forward	Reverse
1926	BC.ST_BIDIR_CTL_4.BV1.MANPOS	Valve Position Command Bi-directional Control - Station 4 - Block Valve 1 -	Close	Open
1927	BC.ST_BIDIR_CTL_4.BV1.IBOLS	Valve Position Open Limit Switch Bi-directional Control - Station 4 - Block Valve 1 -	Off	Opened
1928	BC.ST_BIDIR_CTL_4.BV1.IBCLS	Valve Position Close Limit Switch Bi-directional Control - Station 4 - Block Valve 2 -	Off	Closed
1929	BC.ST_BIDIR_CTL_4.BV2.MANPOS	Valve Position Command Bi-directional Control - Station 4 - Block Valve 2 -	Close	Open
1930	BC.ST_BIDIR_CTL_4.BV2.IBOLS	Valve Position Open Limit Switch Bi-directional Control - Station 4 - Block Valve 2 -	Off	Opened
1931	BC.ST_BIDIR_CTL_4.BV2.IBCLS	Valve Position Close Limit Switch Bi-directional Control - Station 4 - Block Valve 3 -	Off	Closed
1932	BC.ST_BIDIR_CTL_4.BV3.MANPOS	Valve Position Command Bi-directional Control - Station 4 - Block Valve 3 -	Close	Open
1933	BC.ST_BIDIR_CTL_4.BV3.IBOLS	Valve Position Open Limit Switch Bi-directional Control - Station 4 - Block Valve 3 -	Off	Opened
1934	BC.ST_BIDIR_CTL_4.BV3.IBCLS	Valve Position Close Limit Switch Bi-directional Control - Station 4 - Block Valve 4 -	Off	Closed
1935	BC.ST_BIDIR_CTL_4.BV4.MANPOS	Valve Position Command Bi-directional Control - Station 4 - Block Valve 4 -	Close	Open
1936	BC.ST_BIDIR_CTL_4.BV4.IBOLS	Valve Position Open Limit Switch Bi-directional Control - Station 4 - Block Valve 4 -	Off	Opened
1937	BC.ST_BIDIR_CTL_4.BV4.IBCLS	Valve Position Close Limit Switch	Off	Closed
1938	BC.ST_BIDIR_CTL_4.BV5.MANPOS	Bi-directional Control - Station 4 - Block Valve 5 - Valve Position Command Bi-directional Control - Station 4 - Block Valve 5 -	Close	Open
1939	BC.ST_BIDIR_CTL_4.BV5.IBOLS	Valve Position Open Limit Switch Bi-directional Control - Station 4 - Block Valve 5 - Bi-directional Control - Station 4 - Block Valve 5 -	Off	Opened
1940	BC.ST_BIDIR_CTL_4.BV5.IBCLS	Valve Position Close Limit Switch	Off	Closed
1941	BC.ST_BIDIR_CTL_4.BV6.MANPOS	Bi-directional Control - Station 4 - Block Valve 6 - Valve Position Command	Close	Open
1942	BC.ST_BIDIR_CTL_4.BV6.IBOLS	Bi-directional Control - Station 4 - Block Valve 6 - Valve Position Open Limit Switch	Off	Opened

			Off	On
Coil#	Variable	Description Bi-directional Control - Station 4 - Block Valve 6 -	State	State
1943	BC.ST_BIDIR_CTL_4.BV6.IBCLS	Valve Position Close Limit Switch Bi-directional Control - Station 4 - Block Valve 7 -	Off	Closed
1944	BC.ST_BIDIR_CTL_4.BV7.MANPOS	Valve Position Command	Close	Open
1945	BC.ST BIDIR CTL 4.BV7.IBOLS	Bi-directional Control - Station 4 - Block Valve 7 - Valve Position Open Limit Switch	Off	Opened
		Bi-directional Control - Station 4 - Block Valve 7 -		•
1946	BC.ST_BIDIR_CTL_4.BV7.IBCLS	Valve Position Close Limit Switch Bi-directional Control - Station 4 - Block Valve 8 -	Off	Closed
1947	BC.ST_BIDIR_CTL_4.BV8.MANPOS	Valve Position Command	Close	Open
1948	BC.ST BIDIR CTL 4.BV8.IBOLS	Bi-directional Control - Station 4 - Block Valve 8 - Valve Position Open Limit Switch	Off	Opened
1949	BC.ST BIDIR CTL 4.BV8.IBCLS	Bi-directional Control - Station 4 - Block Valve 8 - Valve Position Close Limit Switch	Off	Closed
1950	BI.ST5 DIR	Station n + 1 - Indicated Direction - n = 1, 3, 5	Forward	Reverse
		Station 6 - Block Valve 1 - Required Closed State		
1951	BI.ST6_OLS3_STATE	for forward direction Station 6 - Block Valve 2 - Required Closed State	Off	On
1952	BI.ST6_OLS4_STATE	for forward direction Station 6 - Block Valve 1 - Required Opened	Off	On
1953	BI.ST6_OLS1_STATE	State for forward direction	Off	On
1954	BI.ST6 OLS2 STATE	Station 6 - Block Valve 2 - Required Opened State for forward direction	Off	On
1955	BI.ST6 CLS1 STATUS	Station 6 - Block Valve 1 - Closed Status	Off	Closed
1956	BI.ST6_CLS2_STATUS	Station 6 - Block Valve 2 - Closed Status	Off	Closed
1957	BI.ST6_OLS1_STATUS	Station 6 - Block Valve 1 - Opened Status	Off	Opened
1958	BI.ST6_OLS2_STATUS	Station 6 - Block Valve 2 - Opened Status	Off	Opened
1959	BC.ST6_BIDIR_EN	Station 6 - Programmed Control Requested Direction	Forward	Reverse
1960	BC.ST_BIDIR_CTL_6.BV1.MANPOS	Bi-directional Control - Station 6 - Block Valve 1 - Valve Position Command	Close	Open
		Bi-directional Control - Station 6 - Block Valve 1 -		
1961	BC.ST_BIDIR_CTL_6.BV1.IBOLS	Valve Position Open Limit Switch Bi-directional Control - Station 6 - Block Valve 1 -	Off	Opened
1962	BC.ST_BIDIR_CTL_6.BV1.IBCLS	Valve Position Close Limit Switch	Off	Closed
1963	BC.ST_BIDIR_CTL_6.BV2.MANPOS	Bi-directional Control - Station 6 - Block Valve 2 - Valve Position Command	Close	Open
1964	BC.ST BIDIR CTL 6.BV2.IBOLS	Bi-directional Control - Station 6 - Block Valve 2 - Valve Position Open Limit Switch	Off	Opened
		Bi-directional Control - Station 6 - Block Valve 2 -		•
1965	BC.ST_BIDIR_CTL_6.BV2.IBCLS	Valve Position Close Limit Switch Bi-directional Control - Station 6 - Block Valve 3 -	Off	Closed
1966	BC.ST_BIDIR_CTL_6.BV3.MANPOS	Valve Position Command	Close	Open
1967	BC.ST_BIDIR_CTL_6.BV3.IBOLS	Bi-directional Control - Station 6 - Block Valve 3 - Valve Position Open Limit Switch	Off	Opened
1968	BC.ST_BIDIR_CTL_6.BV3.IBCLS	Bi-directional Control - Station 6 - Block Valve 3 - Valve Position Close Limit Switch	Off	Closed
		Bi-directional Control - Station 6 - Block Valve 4 -		
1969	BC.ST_BIDIR_CTL_6.BV4.MANPOS	Valve Position Command Bi-directional Control - Station 6 - Block Valve 4 -	Close	Open
1970	BC.ST_BIDIR_CTL_6.BV4.IBOLS	Valve Position Open Limit Switch	Off	Opened
1971	BC.ST_BIDIR_CTL_6.BV4.IBCLS	Bi-directional Control - Station 6 - Block Valve 4 - Valve Position Close Limit Switch	Off	Closed
1972	BC.ST BIDIR CTL 6.BV5.MANPOS	Bi-directional Control - Station 6 - Block Valve 5 - Valve Position Command	Close	Open
		Bi-directional Control - Station 6 - Block Valve 5 -		•
1973	BC.ST_BIDIR_CTL_6.BV5.IBOLS	Valve Position Open Limit Switch Bi-directional Control - Station 6 - Block Valve 5 -	Off	Opened
1974	BC.ST_BIDIR_CTL_6.BV5.IBCLS	Valve Position Close Limit Switch	Off	Closed
1975	BC.ST_BIDIR_CTL_6.BV6.MANPOS	Bi-directional Control - Station 6 - Block Valve 6 - Valve Position Command	Close	Open
1976	BC.ST BIDIR CTL 6.BV6.IBOLS	Bi-directional Control - Station 6 - Block Valve 6 -	Off	Opened
1970		Valve Position Open Limit Switch Bi-directional Control - Station 6 - Block Valve 6 -		Орепец
1977	BC.ST_BIDIR_CTL_6.BV6.IBCLS	Valve Position Close Limit Switch Bi-directional Control - Station 6 - Block Valve 7 -	Off	Closed
1978	BC.ST_BIDIR_CTL_6.BV7.MANPOS	Valve Position Command	Close	Open

Coil#	Variable	Description	Off State	On State
		Bi-directional Control - Station 6 - Block Valve 7 -		Ciuio
1979	BC.ST_BIDIR_CTL_6.BV7.IBOLS	Valve Position Open Limit Switch	Off	Opened
1980	BC.ST BIDIR CTL 6.BV7.IBCLS	Bi-directional Control - Station 6 - Block Valve 7 - Valve Position Close Limit Switch	Off	Closed
		Bi-directional Control - Station 6 - Block Valve 8 -	a.	
1981	BC.ST_BIDIR_CTL_6.BV8.MANPOS	Valve Position Command Bi-directional Control - Station 6 - Block Valve 8 -	Close	Open
1982	BC.ST_BIDIR_CTL_6.BV8.IBOLS	Valve Position Open Limit Switch	Off	Opened
1983	BC.ST BIDIR CTL 6.BV8.IBCLS	Bi-directional Control - Station 6 - Block Valve 8 - Valve Position Close Limit Switch	Off	Closed
1984	MB.SPARE	***** RESERVED FOR FUTURE USE ******	0	0.0000
1985	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
1986	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
1987	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
1988	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
1989	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
1990	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
1991	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
1992	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
1993	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
1994	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
1995	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
1996	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
1997	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
1998	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
1999	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
2000	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
2001	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
2002	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
2003	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
2004	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
2005	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
2006	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
2007	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
2008	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
2009	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
2010	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
2011	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
2012	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
2013	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
2014	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
2015	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
2016	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
2017	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
2040	STC Ctl Profile 4 Events	Station Control - Station 1 - Execute Setpoint	Off	On
2018	STC.Ctl_Profile_1.Execute	Change Station Control - Station 2 - Execute Setpoint	Off	On
2019	STC.Ctl_Profile_2.Execute	Change	Off	On
2020	STC.Ctl Profile 3.Execute	Station Control - Station 3 - Execute Setpoint Change	Off	On
		Station Control - Station 4 - Execute Setpoint		
2021	STC.Ctl_Profile_4.Execute	Change Station Control - Station 5 - Execute Setpoint	Off	On
2022	STC.Ctl_Profile_5.Execute	Change	Off	On
2023	STC.Ctl Profile 6.Execute	Station Control - Station 6 - Execute Setpoint	Off	On
2023	OTO.OII_FTOINE_U.EXECUTE	Change	UII	On

Coil#	Variable	Description	Off State	On State
2024	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
2025	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
2026	MVT.MVT_1_CFail	Multi-Variable Transmitter 1 Comm Fail	Off	Fail
2027	MVT.MVT_2_CFail	Multi-Variable Transmitter 2 Comm Fail	Off	Fail
2028	MVT.MVT_3_CFail	Multi-Variable Transmitter 3 Comm Fail	Off	Fail
2029	MVT.MVT_4_CFail	Multi-Variable Transmitter 4 Comm Fail	Off	Fail
2030	MVT.MVT_5_CFail	Multi-Variable Transmitter 5 Comm Fail	Off	Fail
2031	MVT.MVT_6_CFail	Multi-Variable Transmitter 6 Comm Fail	Off	Fail
2032	MVT.MVT_7_CFail	Multi-Variable Transmitter 7 Comm Fail	Off	Fail
2033	MVT.MVT_8_CFail	Multi-Variable Transmitter 8 Comm Fail	Off	Fail
2034	MVT.MVT_9_CFail	Multi-Variable Transmitter 9 Comm Fail	Off	Fail
2035	MVT.MVT_10_CFail	Multi-Variable Transmitter 10 Comm Fail	Off	Fail
2036	MVT.MVT_11_CFail	Multi-Variable Transmitter 11 Comm Fail	Off	Fail
2037	MVT.MVT_12_CFail	Multi-Variable Transmitter 12 Comm Fail	Off	Fail
2038	@GV.ST1_L_EN	Station 1 Local Enable	Off	Local
2039	@GV.ST2_L_EN	Station 2 Local Enable	Off	Local
2040	@GV.ST3_L_EN	Station 3 Local Enable	Off	Local
2041	@GV.ST4_L_EN	Station 4 Local Enable	Off	Local
2042	@GV.ST5_L_EN	Station 5 Local Enable	Off	Local
2043	@GV.ST6_L_EN	Station 6 Local Enable	Off	Local
2044	@GV.ST1_R_EN	Station 1 Remote Enable	Off	Remote
2045	@GV.ST2_R_EN	Station 2 Remote Enable	Off	Remote
2046	@GV.ST3_R_EN	Station 3 Remote Enable	Off	Remote
2047	@GV.ST4_R_EN	Station 4 Remote Enable	Off	Remote
2048	@GV.ST5_R_EN	Station 5 Remote Enable	Off	Remote
2049	@GV.ST6_R_EN	Station 6 Remote Enable	Off	Remote
2050	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
2051	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
2052	@GV.RCV1_L_EN	Remote Control Valve 1 Local Enable	Off	Local
2053	@GV.RCV2_L_EN	Remote Control Valve 2 Local Enable	Off	Local
2054	@GV.RCV3_L_EN	Remote Control Valve 3 Local Enable	Off	Local
2055	@GV.RCV4_L_EN	Remote Control Valve 4 Local Enable	Off	Local
2056	@GV.RCV5_L_EN	Remote Control Valve 5 Local Enable	Off	Local
2057	@GV.RCV6_L_EN	Remote Control Valve 6 Local Enable	Off	Local
2058	@GV.RCV7_L_EN	Remote Control Valve 7 Local Enable	Off	Local
2059	@GV.RCV8_L_EN	Remote Control Valve 8 Local Enable	Off	Local
2060	@GV.RCV9_L_EN	Remote Control Valve 9 Local Enable	Off	Local
2061	@GV.RCV10_L_EN	Remote Control Valve 10 Local Enable	Off	Local
2062	@GV.RCV11_L_EN	Remote Control Valve 11 Local Enable	Off	Local
2063	@GV.RCV12_L_EN	Remote Control Valve 12 Local Enable	Off	Local
2064	@GV.RCV1_R_EN	Remote Control Valve 1 Remote Enable	Off	Remote
2065	@GV.RCV2_R_EN	Remote Control Valve 2 Remote Enable	Off	Remote
2066	@GV.RCV3_R_EN	Remote Control Valve 3 Remote Enable	Off	Remote
2067	@GV.RCV4_R_EN	Remote Control Valve 4 Remote Enable	Off	Remote
2068	@GV.RCV5_R_EN	Remote Control Valve 5 Remote Enable	Off	Remote
2069	@GV.RCV6_R_EN	Remote Control Valve 6 Remote Enable	Off	Remote
2070	@GV.RCV7_R_EN	Remote Control Valve 7 Remote Enable	Off	Remote
2071	@GV.RCV8_R_EN	Remote Control Valve 8 Remote Enable	Off	Remote
2072	@GV.RCV9_R_EN	Remote Control Valve 9 Remote Enable	Off	Remote

Coil#	Variable	Description	Off State	On State
2073	@GV.RCV10 R EN	Remote Control Valve 10 Remote Enable	Off	Remote
2074	@GV.RCV11 R EN	Remote Control Valve 11 Remote Enable	Off	Remote
2075	@GV.RCV12 R EN	Remote Control Valve 12 Remote Enable	Off	Remote
2076	@GV.GPPID1 L EN	General Purpose PID 1 Local Enable	Off	Local
2077	@GV.GPPID2 L EN	General Purpose PID 2 Local Enable	Off	Local
2078	@GV.GPPID3 L EN	General Purpose PID 3 Local Enable	Off	Local
2079		General Purpose PID 1 Remote Enable	Off	Remote
	@GV.GPPID1_R_EN	·		
2080	@GV.GPPID2_R_EN	General Purpose PID 2 Remote Enable	Off	Remote
2081	@GV.GPPID3_R_EN	General Purpose PID 3 Remote Enable	Off	Remote
2082	LR.Local_Sw_Mode	Local Remote Sitewide/Local Switch	Sitewide Local/Remot	Configurable
2083	LR.Local_Sw1	Local Remote Switch 1 - Local/Remote or Local	e	Local
2084	LR.Local_Sw2	Local Remote Switch 2 - Local/Remote or Local	Local/Remot e Local/Remot	Local
2085	LR.Local_Sw3	Local Remote Switch 3 - Local/Remote or Local	e Local/Remot	Local
2086	LR.Local_Sw4	Local Remote Switch 4 - Local/Remote or Local	e Local/Remot	Local
2087	LR.Local_Sw5	Local Remote Switch 5 - Local/Remote or Local	e Local/Remot	Local
2088	LR.Local Sw6	Local Remote Switch 6 - Local/Remote or Local	e Local/Remot	Local
		MODBUS DI 1 - These are variables that can be written to by SCADA, and used in the program (PMC, PVM, and Math Function) - n = 1 through	OFF	
2089	MB.DI_1	16. MODBUS DI 2 - These are variables that can be	OFF	ON
2090	MB.DI_2	written to by SCADA, and used in the program (PMC, PVM, and Math Function) - n = 1 through 16. MODBUS DI 3 - These are variables that can be	OFF	ON
		written to by SCADA, and used in the program (PMC, PVM, and Math Function) - n = 1 through	0.55	
2091	MB.DI_3	16. MODBUS DI 4 - These are variables that can be	OFF	ON
2092	MB.DI_4	written to by SCADA, and used in the program (PMC, PVM, and Math Function) - n = 1 through 16.	OFF	ON
2003	MD DI 5	MODBUS DI 5 - These are variables that can be written to by SCADA, and used in the program (PMC, PVM, and Math Function) - n = 1 through	OFF	ON
2093	MB.DI_5	16. MODBUS DI 6 - These are variables that can be	OFF	ON
2004	MD DL C	written to by SCADA, and used in the program (PMC, PVM, and Math Function) - n = 1 through	OFF	ON
2094	MB.DI_6	16. MODBUS DI 7 - These are variables that can be	OFF	ON
		written to by SCADA, and used in the program		
2095	MB.DI 7	(PMC, PVM, and Math Function) - n = 1 through 16.	OFF	ON
2030	1	MODBUS DI 8 - These are variables that can be written to by SCADA, and used in the program	OI I	
2096	MB.DI 8	(PMC, PVM, and Math Function) - n = 1 through 16.	OFF	ON
	_	MODBUS DI 9 - These are variables that can be written to by SCADA, and used in the program (PMC, PVM, and Math Function) - n = 1 through		
2097	MB.DI_9	16. MODBUS DI 10 - These are variables that can be	OFF	ON
0000	MD DL 40	written to by SCADA, and used in the program (PMC, PVM, and Math Function) - n = 1 through	055	
2098	MB.DI_10	MODBUS DI 11 - These are variables that can be written to by SCADA, and used in the program	OFF	ON
2099	MB.DI 11	(PMC, PVM, and Math Function) - n = 1 through 16.	OFF	ON
2000	mb.bl_11	₁ 10.	1 01 1	

Coil#	Variable	Description	Off State	On State
		MODBUS DI 12 - These are variables that can be		
		written to by SCADA, and used in the program (PMC, PVM, and Math Function) - n = 1 through		
2100	MB.DI 12	16.	OFF	ON
	_	MODBUS DI 13 - These are variables that can be		
		written to by SCADA, and used in the program (PMC, PVM, and Math Function) - n = 1 through		
2101	MB.DI 13	16.	OFF	ON
	_	MODBUS DI 14 - These are variables that can be		
		written to by SCADA, and used in the program (PMC, PVM, and Math Function) - n = 1 through		
2102	MB.DI_14	16.	OFF	ON
		MODBUS DI 15 - These are variables that can be		
		written to by SCADA, and used in the program (PMC, PVM, and Math Function) - n = 1 through		
2103	MB.DI_15	16.	OFF	ON
		MODBUS DI 16 - These are variables that can be written to by SCADA, and used in the program		
		(PMC, PVM, and Math Function) - n = 1 through		
2104	MB.DI_16	16.	OFF	ON
2105	BC.ST1_RDIR_REQ	Station 1 - Reverse Direction Requested	Forward	Reverse
2106	BC.ST2_RDIR_REQ	Station 2 - Reverse Direction Requested	Forward	Reverse
2107	BC.ST3_RDIR_REQ	Station 3 - Reverse Direction Requested	Forward	Reverse
2108	BC.ST4_RDIR_REQ	Station 4 - Reverse Direction Requested	Forward	Reverse
2109	BC.ST5_RDIR_REQ	Station 5 - Reverse Direction Requested	Forward	Reverse
2110	BC.ST6 RDIR REQ	Station 6 - Reverse Direction Requested	Forward	Reverse
2111	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
2112	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
		Station Control 1 Enable Fast Close with 0 Set		
2113	STC.STC_1.PID_SEL_1.ESD_EN	Point Station Control 2 Enable Fact Close with 0 Set	Disabled	Enabled
2114	STC.STC 2.PID SEL 1.ESD EN	Station Control 2 Enable Fast Close with 0 Set Point	Disabled	Enabled
		Station Control 3 Enable Fast Close with 0 Set		
2115	STC.STC_3.PID_SEL_1.ESD_EN	Point Station Control 4 Enable Fact Close with 0 Set	Disabled	Enabled
2116	STC.STC 4.PID SEL 1.ESD EN	Station Control 4 Enable Fast Close with 0 Set Point	Disabled	Enabled
		Station Control 5 Enable Fast Close with 0 Set		
2117	STC.STC_5.PID_SEL_1.ESD_EN	Point Station Control 6 Enable Fast Close with 0 Set	Disabled	Enabled
2118	STC.STC 6.PID SEL 1.ESD EN	Point	Disabled	Enabled
2119	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
2120	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
		Run Switching - Station 1 - No Flow Shut In		
2121	TS.sd1	Enabled / Disabled	Disabled	Enabled
2122	TS.sd2	Run Switching - Station 2 - No Flow Shut In Enabled / Disabled	Disabled	Enabled
		Run Switching - Station 3 - No Flow Shut In		
2123	TS.sd3	Enabled / Disabled	Disabled	Enabled
2124	TS.sd4	Run Switching - Station 4 - No Flow Shut In Enabled / Disabled	Disabled	Enabled
		Run Switching - Station 5 - No Flow Shut In		
2125	TS.sd5	Enabled / Disabled Run Switching - Station 6 - No Flow Shut In	Disabled	Enabled
2126	TS.sd6	Enabled / Disabled	Disabled	Enabled
2127	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
2128	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
2129	MB.SPARE			
2130	MB.SPARE			
2131	MB.SPARE			
2132	MB.SPARE			1
				+
2133	MB.SPARE			
2134	MB.SPARE			

Coil#	Variable	Description	Off State	On State
2135	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
2136	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
2137	FC.FC1.RX SOS ALRM	Run 1 - Speed of Sound Alarm Enable	Disabled	Enabled
2138	FC.FC2.RX SOS ALRM	Run 2 - Speed of Sound Alarm Enable	Disabled	Enabled
2139	FC.FC3.RX SOS ALRM	Run 3 - Speed of Sound Alarm Enable	Disabled	Enabled
2140	FC.FC4.RX SOS ALRM	Run 4 - Speed of Sound Alarm Enable	Disabled	Enabled
2141	FC.FC5.RX SOS ALRM	Run 5 - Speed of Sound Alarm Enable	Disabled	Enabled
2142	FC.FC6.RX SOS ALRM	Run 6 - Speed of Sound Alarm Enable	Disabled	Enabled
2143	FC.FC7.RX SOS ALRM	Run 7 - Speed of Sound Alarm Enable	Disabled	Enabled
2144	FC.FC8.RX SOS ALRM	Run 8 - Speed of Sound Alarm Enable	Disabled	Enabled
	FO CTATION 4 FavorFixed	Station 1 use values from the GC column, or always used fixed GC variables from the data	GC	Fixed -
2145	FC.STATION_1_ForceFixed	Station 1 use saturated BTU from the GC data	GC	Scheduled Sat./Wet
2146	FC.STATION_1_UseBTUSat	stream	Dry BTU	BTU
2147	FC.STATION 2 ForceFixed	Station 2 use values from the GC column, or always used fixed GC variables from the data stream	GC	Fixed - Scheduled
	-	Station 2 use saturated BTU from the GC data		Sat./Wet
2148	FC.STATION_2_UseBTUSat	stream Station 3 use values from the GC column, or	Dry BTU	BTU
		always used fixed GC variables from the data		Fixed -
2149	FC.STATION_3_ForceFixed	stream	GC	Scheduled
2150	FC.STATION 3 UseBTUSat	Station 3 use saturated BTU from the GC data stream	Dry BTU	Sat./Wet BTU
		Station 4 use values from the GC column, or	2.92.0	
2151	FC.STATION_4_ForceFixed	always used fixed GC variables from the data stream	GC	Fixed - Scheduled
2131	PC.STATION_4_Polcerixed	Station 4 use saturated BTU from the GC data	GC	Sat./Wet
2152	FC.STATION_4_UseBTUSat	stream	Dry BTU	BTU
2153	FC.STATION 5 ForceFixed	Station 5 use values from the GC column, or always used fixed GC variables from the data stream	GC	Fixed - Scheduled
0454	FO OTATION F. H. PTHOA	Station 5 use saturated BTU from the GC data	D D.T.U	Sat./Wet
2154	FC.STATION_5_UseBTUSat	stream Station 6 use values from the GC column, or	Dry BTU	BTU
2155	FC.STATION_6_ForceFixed	always used fixed GC variables from the data stream	GC	Fixed - Scheduled
2156	FC.STATION 6 UseBTUSat	Station 6 use saturated BTU from the GC data stream	Dry BTU	Sat./Wet BTU
2157	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
2158	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
2159	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
2160	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
2161	PG GC.GC 1.GC 1.obAlrm	GC Data Stream 1 general alarm	ОК	Alarm
2162	PG_GC.GC_1.GC_2.obAlrm	GC Data Stream 2 general alarm	OK	Alarm
2163	PG GC.GC 1.GC 3.obAlrm	GC Data Stream 3 general alarm	OK	Alarm
2164	PG GC.GC 1.GC 4.obAlrm	GC Data Stream 4 general alarm	OK	Alarm
2165	PG_GC.GC_1.GC_5.obAlrm	GC Data Stream 5 general alarm	OK	Alarm
2166	PG GC.GC 1.GC 6.obAlrm	GC Data Stream 6 general alarm	OK	Alarm
2167	PG_GC.GC_1.GC_7.obAlrm	GC Data Stream 7 general alarm	OK	Alarm
2168	PG GC.GC 1.GC 8.obAlrm	GC Data Stream 8 general alarm	OK	Alarm
2169	MB.Spare			
2170	MB.Spare			
2171	MB.Spare			
2172	MB.Spare			
2173	MB.SPARE			
2174	MB.SPARE			

Coil#	Variable	Description	Off State	On State
2175	MB.SPARE	Description	Otate	Otate
2176	MB.SPARE			
2177	PMC.PV_Monitor_1.HiHiEnable	Process Monitor Control 1 High High Alarm enabled	Disabled	Enabled
2178	PMC.PV_Monitor_1.ROC_EN	Process Monitor Control 1 Rate of Change alarm enabled	Disabled	Enabled
2179	PMC.PV_Monitor_1.ROC_Units	Process Monitor Control 1 Rate of Change time units Process Monitor Control 1 Low Low Alarm	Seconds	Minutes
2180	PMC.PV_Monitor_1.LoLoEnable	enabled	Disabled	Enabled
2181	PMC.PV_Monitor_1.LoEnable	Process Monitor Control 1 Low Alarm enabled	Disabled	Enabled
2182	PMC.PV_Monitor_1.HiEnable	Process Monitor Control 1 High Alarm enabled	Disabled	Enabled
2183	PMC.PV_Monitor_1.HH_Ctl_En	Process Monitor Control 1 Control Output on High High Alarm enabled Process Monitor Control 1 Control Output on High	Disabled	Enabled
2184	PMC.PV_Monitor_1.H_Ctl_En	Alarm enabled Process Monitor Control 1 Control Output on High Alarm enabled	Disabled	Enabled
2185	PMC.PV Monitor 1.L Ctl En	Alarm enabled	Disabled	Enabled
2186	PMC.PV Monitor 1.LL Ctl En	Process Monitor Control 1 Control Output on Low Low Alarm enabled	Disabled	Enabled
2187	PMC.PV Monitor 1.ROCup Ctl En	Process Monitor Control 1 Control Output on Rate of Change up enabled	Disabled	Enabled
2188	PMC.PV_Monitor_1.ROCdn_Ctl_En	Process Monitor Control 1 Control Output on Rate of Change Down enabled	Disabled	Enabled
2189	PMC.PV_Monitor_1.Ctl_Latch	Process Monitor Control 1 Alarm Control Output Latched	Unlatched	Latched
2190	PMC.PV_Monitor_1.Ctl_Reset	Process Monitor Control 1 Rate of Change Control Output Latched	Unlatched	Latched
2191	PMC.PV Monitor 2.HiHiEnable	Process Monitor Control 2 High High Alarm enabled	Disabled	Enabled
2192	PMC.PV_Monitor_2.ROC_EN	Process Monitor Control 2 Rate of Change alarm enabled	Disabled	Enabled
2193	PMC.PV_Monitor_2.ROC_Units	Process Monitor Control 2 Rate of Change time units	Seconds	Minutes
2194	PMC.PV Monitor 2.LoLoEnable	Process Monitor Control 2 Low Low Alarm enabled	Disabled	Enabled
2195	PMC.PV Monitor 2.LoEnable	Process Monitor Control 2 Low Alarm enabled	Disabled	Enabled
2196	PMC.PV_Monitor_2.HiEnable	Process Monitor Control 2 High Alarm enabled	Disabled	Enabled
2197	PMC.PV_Monitor_2.HH_Ctl_En	Process Monitor Control 2 Control Output on High High Alarm enabled	Disabled	Enabled
2198	PMC.PV_Monitor_2.H_Ctl_En	Process Monitor Control 2 Control Output on High Alarm enabled	Disabled	Enabled
2199	PMC.PV_Monitor_2.L_Ctl_En	Process Monitor Control 2 Control Output on Low Alarm enabled	Disabled	Enabled
2200	PMC.PV_Monitor_2.LL_Ctl_En	Process Monitor Control 2 Control Output on Low Low Alarm enabled	Disabled	Enabled
2201	PMC.PV_Monitor_2.ROCup_Ctl_En	Process Monitor Control 2 Control Output on Rate of Change up enabled	Disabled	Enabled
2202	PMC.PV_Monitor_2.ROCdn_Ctl_En	Process Monitor Control 2 Control Output on Rate of Change Down enabled	Disabled	Enabled
2203	PMC.PV_Monitor_2.Ctl_Latch	Process Monitor Control 2 Alarm Control Output Latched	Unlatched	Latched
2204	PMC.PV_Monitor_2.Ctl_Reset	Process Monitor Control 2 Rate of Change Control Output Latched	Unlatched	Latched
2205	PMC.PV_Monitor_3.HiHiEnable	Process Monitor Control 3 High High Alarm enabled	Disabled	Enabled
2206	PMC.PV_Monitor_3.ROC_EN	Process Monitor Control 3 Rate of Change alarm enabled	Disabled	Enabled
2207	PMC.PV_Monitor_3.ROC_Units	Process Monitor Control 3 Rate of Change time units Process Monitor Control 3 Low Low Alarm	Seconds	Minutes
2208	PMC.PV_Monitor_3.LoLoEnable	enabled	Disabled	Enabled
2209	PMC.PV_Monitor_3.LoEnable	Process Monitor Control 3 Low Alarm enabled	Disabled	Enabled
2210	PMC.PV_Monitor_3.HiEnable	Process Monitor Control 3 High Alarm enabled	Disabled	Enabled
2211	PMC.PV_Monitor_3.HH_Ctl_En	Process Monitor Control 3 Control Output on High High Alarm enabled	Disabled	Enabled

Co:1#	Veriable	Decembring	Off	On State
Coil#	Variable	Process Monitor Control 3 Control Output on High	State	State
2212	PMC.PV_Monitor_3.H_Ctl_En	Alarm enabled Process Monitor Control 3 Control Output on Low	Disabled	Enabled
2213	PMC.PV_Monitor_3.L_Ctl_En	Alarm enabled Process Monitor Control 3 Control Output on Low	Disabled	Enabled
2214	PMC.PV_Monitor_3.LL_Ctl_En	Low Alarm enabled	Disabled	Enabled
2215	PMC.PV_Monitor_3.ROCup_Ctl_En	Process Monitor Control 3 Control Output on Rate of Change up enabled	Disabled	Enabled
2216	PMC.PV_Monitor_3.ROCdn_Ctl_En	Process Monitor Control 3 Control Output on Rate of Change Down enabled	Disabled	Enabled
		Process Monitor Control 3 Alarm Control Output		
2217	PMC.PV_Monitor_3.Ctl_Latch	Latched Process Monitor Control 3 Rate of Change	Unlatched	Latched
2218	PMC.PV_Monitor_3.Ctl_Reset	Control Output Latched Process Monitor Control 4 High High Alarm	Unlatched	Latched
2219	PMC.PV_Monitor_4.HiHiEnable	enabled	Disabled	Enabled
2220	PMC.PV Monitor 4.ROC EN	Process Monitor Control 4 Rate of Change alarm enabled	Disabled	Enabled
2221	PMC.PV Monitor 4.ROC Units	Process Monitor Control 4 Rate of Change time units	Seconds	Minutes
		Process Monitor Control 4 Low Low Alarm		
2222 2223	PMC.PV_Monitor_4.LoLoEnable PMC.PV Monitor 4.LoEnable	enabled Process Monitor Control 4 Low Alarm enabled	Disabled Disabled	Enabled Enabled
2224	PMC.PV_Monitor_4.Lognable	Process Monitor Control 4 High Alarm enabled	Disabled	Enabled
		Process Monitor Control 4 Control Output on High		
2225	PMC.PV_Monitor_4.HH_Ctl_En	High Alarm enabled Process Monitor Control 4 Control Output on High	Disabled	Enabled
2226	PMC.PV_Monitor_4.H_Ctl_En	Alarm enabled Process Monitor Control 4 Control Output on Low	Disabled	Enabled
2227	PMC.PV_Monitor_4.L_Ctl_En	Alarm enabled	Disabled	Enabled
2228	PMC.PV Monitor 4.LL Ctl En	Process Monitor Control 4 Control Output on Low Low Alarm enabled	Disabled	Enabled
2229	PMC.PV_Monitor_4.ROCup_Ctl_En	Process Monitor Control 4 Control Output on Rate of Change up enabled	Disabled	Enabled
		Process Monitor Control 4 Control Output on Rate	Disabled	Enabled
2230	PMC.PV_Monitor_4.ROCdn_Ctl_En	of Change Down enabled Process Monitor Control 4 Alarm Control Output		
2231	PMC.PV_Monitor_4.Ctl_Latch	Latched Process Monitor Control 4 Rate of Change	Unlatched	Latched
2232	PMC.PV_Monitor_4.Ctl_Reset	Control Output Latched	Unlatched	Latched
2233	MB.SPARE			
2234	MB.SPARE			
2235	MB.SPARE			
2236	MB.SPARE			
2237	PVM.PV_Monitor_1.HiHiEnable	Process Value Monitor 1 High High Alarm enabled	Disabled	Enabled
2238	PVM.PV_Monitor_1.ROC_EN	Process Value Monitor 1 Rate of Change alarm enabled	Disabled	Enabled
2239	PVM.PV Monitor 1.ROC Units	Process Value Monitor 1 Rate of Change time units	Seconds	Minutes
2240	PVM.PV Monitor 1.LoLoEnable	Process Value Monitor 1 Low Low Alarm enabled	Disabled	Enabled
2241	PVM.PV Monitor 1.LoEnable	Process Value Monitor 1 Low Alarm enabled	Disabled	Enabled
2241	PVM.PV_Monitor_1.Loenable PVM.PV Monitor_1.HiEnable	Process Value Monitor 1 Low Alarm enabled Process Value Monitor 1 High Alarm enabled	Disabled	Enabled
		Process Value Monitor 2 High High Alarm		
2243	PVM.PV_Monitor_2.HiHiEnable	enabled Process Value Monitor 2 Rate of Change alarm	Disabled	Enabled
2244	PVM.PV_Monitor_2.ROC_EN	enabled Process Value Monitor 2 Rate of Change time	Disabled	Enabled
2245	PVM.PV_Monitor_2.ROC_Units	units	Seconds	Minutes
2246	PVM.PV_Monitor_2.LoLoEnable	Process Value Monitor 2 Low Low Alarm enabled	Disabled	Enabled
2247	PVM.PV_Monitor_2.LoEnable	Process Value Monitor 2 Low Alarm enabled	Disabled	Enabled
2248	PVM.PV_Monitor_2.HiEnable	Process Value Monitor 2 High Alarm enabled	Disabled	Enabled
2249	PVM.PV Monitor 3.HiHiEnable	Process Value Monitor 3 High High Alarm enabled	Disabled	Enabled
2273	I TO THE INCOME.	onasioa	Disabled	Litabica

0-:1#	Variable	Passariation .	Off	On
Coil#	Variable	Description Process Value Monitor 3 Rate of Change alarm	State	State
2250	PVM.PV_Monitor_3.ROC_EN	enabled	Disabled	Enabled
2251	PVM.PV Monitor 3.ROC Units	Process Value Monitor 3 Rate of Change time units	Seconds	Minutes
2252	PVM.PV Monitor 3.LoLoEnable	Process Value Monitor 3 Low Low Alarm enabled	Disabled	Enabled
2253	PVM.PV Monitor 3.LoEnable	Process Value Monitor 3 Low Alarm enabled	Disabled	Enabled
2254	PVM.PV Monitor 3.HiEnable	Process Value Monitor 3 High Alarm enabled	Disabled	Enabled
		Process Value Monitor 4 High High Alarm		
2255	PVM.PV_Monitor_4.HiHiEnable	enabled Process Value Monitor 4 Rate of Change alarm	Disabled	Enabled
2256	PVM.PV_Monitor_4.ROC_EN	enabled	Disabled	Enabled
2257	PVM.PV Monitor 4.ROC Units	Process Value Monitor 4 Rate of Change time units	Seconds	Minutes
2258	PVM.PV Monitor 4.LoLoEnable	Process Value Monitor 4 Low Low Alarm enabled	Disabled	Enabled
2259	PVM.PV Monitor 4.LoEnable	Process Value Monitor 4 Low Alarm enabled	Disabled	Enabled
2260	PVM.PV Monitor 4.HiEnable	Process Value Monitor 4 High Alarm enabled	Disabled	Enabled
2261	SMP.Sampler 1 Enable	The state of the s	2.50.2.00	
2262	SMP.Sampler 1 Reset			
2263	SMP.Sampler 2 Enable			
2264	SMP.Sampler 2 Reset			1
2265	SMP.Sampler 3 Enable			
	· -			
2266	SMP.Sampler 3 Reset			
2267	SMP.Sampler_4_Enable			
2268	SMP.Sampler_4_Reset			
2269	SMP.Sampler_5_Enable			
2270	SMP.Sampler_5_Reset			
2271	SMP.Sampler_6_Enable			
2272	SMP.Sampler_6_Reset			
2273	SMP.Sampler_7_Enable			
2274	SMP.Sampler_7_Reset			
2275	SMP.Sampler_8_Enable			
2276	SMP.Sampler_8_Reset			
2277	SMP.Sampler_9_Enable			
2278	SMP.Sampler_9_Reset			
2279	SMP.Sampler_10_Enable			
2280	SMP.Sampler_10_Reset			
2281	SMP.Sampler_11_Enable			
2282	SMP.Sampler_11_Reset			
2283	SMP.Sampler_12_Enable			
2284	SMP.Sampler_12_Reset			
2285	GPPID.PID1_ManMode	General Purpose PID 1 Manual Mode enabled	Auto	Manual
2286	GPPID.PID2_ManMode	General Purpose PID 2 Manual Mode enabled	Auto	Manual
2287	GPPID.PID3_ManMode	General Purpose PID 3 Manual Mode enabled	Auto	Manual
2288	STC.Ctl_Profile_1.Flow_Exct	Station 1 execute remote Flow setpoint change, written from SCADA, set to Off automatically	Off	Execute
		Station 1 execute remote Energy setpoint change,	0#	
2289	STC.Ctl_Profile_1.Energy_Exct	written from SCADA, set to Off automatically Station 1 execute remote Outlet Pressure setpoint	Off	Execute
		change, written from SCADA, set to Off		
2290	STC.Ctl_Profile_1.Pressure_Exct	automatically Station 1 execute remote Brimary 2 getneint	Off	Execute
		Station 1 execute remote Primary 3 setpoint change, written from SCADA, set to Off		
2291	STC.Ctl_Profile_1.Pmry3_Exct	automatically	Off	Execute
2292	STC.STC_1.Energy_Ctl	Station 1 Energy PID loop is selected, versus flow	Flow	Energy
2293	STC.Ctl Profile 2.Flow Exct	Station 2 execute remote Flow setpoint change, written from SCADA, set to Off automatically	Off	Execute
2233	OTO.OU_ITOING_Z.ITOW_EXCL	whiten from OOADA, set to Off automatically	Jii	LAGGUIG

Coil#	Variable	Description	Off State	On State
		Station 2 execute remote Energy setpoint change,	Off	
2294	STC.Ctl_Profile_2.Energy_Exct	written from SCADA, set to Off automatically Station 2 execute remote Outlet Pressure setpoint	Οπ	Execute
2295	STC.Ctl Profile 2.Pressure Exct	change, written from SCADA, set to Off automatically	Off	Execute
2200	OTO.OU_TTOMO_Z.ITTOSOGIO_EXOL	Station 2 execute remote Primary 3 setpoint	Oii	Excodic
2296	STC.Ctl_Profile_2.Pmry3_Exct	change, written from SCADA, set to Off automatically	Off	Execute
2297	STC.STC 2.Energy Ctl	Station 2 Energy PID loop is selected, versus flow	Flow	Energy
2298	STC.Ctl_Profile_3.Flow_Exct	Station 3 execute remote Flow setpoint change, written from SCADA, set to Off automatically	Off	Execute
0000	OTO OH Duefly O Francis Frank	Station 3 execute remote Energy setpoint change,	0"	F
2299	STC.Ctl_Profile_3.Energy_Exct	written from SCADA, set to Off automatically Station 3 execute remote Outlet Pressure setpoint	Off	Execute
		change, written from SCADA, set to Off		
2300	STC.Ctl_Profile_3.Pressure_Exct	automatically	Off	Execute
		Station 3 execute remote Primary 3 setpoint change, written from SCADA, set to Off		
2301	STC.Ctl_Profile_3.Pmry3_Exct	automatically	Off	Execute
2302	STC.STC_3.Energy_Ctl	Station 3 Energy PID loop is selected, versus flow	Flow	Energy
2202		Station 4 execute remote Flow setpoint change,	Off	
2303	STC.Ctl_Profile_4.Flow_Exct	written from SCADA, set to Off automatically Station 4 execute remote Energy setpoint change,	Off	Execute
2304	STC.Ctl_Profile_4.Energy_Exct	written from SCADA, set to Off automatically	Off	Execute
		Station 4 execute remote Outlet Pressure setpoint		
2305	STC.Ctl Profile 4.Pressure Exct	change, written from SCADA, set to Off automatically	Off	Execute
2000	OTO.OU_TOMO_THTOGGREE_EXC	Station 4 execute remote Primary 3 setpoint	O.I.	Exocuto
2306	STC.Ctl_Profile_4.Pmry3_Exct	change, written from SCADA, set to Off automatically	Off	Execute
2307	STC.STC_4.Energy_Ctl	Station 4 Energy PID loop is selected, versus flow	Flow	Energy
		Station 5 execute remote Flow setpoint change,	۵	
2308	STC.Ctl_Profile_5.Flow_Exct	written from SCADA, set to Off automatically Station 5 execute remote Energy setpoint change,	Off	Execute
2309	STC.Ctl_Profile_5.Energy_Exct	written from SCADA, set to Off automatically	Off	Execute
		Station 5 execute remote Outlet Pressure setpoint		
2310	STC.Ctl Profile 5.Pressure Exct	change, written from SCADA, set to Off automatically	Off	Execute
		Station 5 execute remote Primary 3 setpoint	_	
2311	STC Ctl Profile 5 Pmn/2 Evet	change, written from SCADA, set to Off automatically	Off	Execute
	STC.Ctl_Profile_5.Pmry3_Exct			
2312	STC.STC_5.Energy_Ctl	Station 5 Energy PID loop is selected, versus flow Station 6 execute remote Flow setpoint change,	Flow	Energy
2313	STC.Ctl_Profile_6.Flow_Exct	written from SCADA, set to Off automatically	Off	Execute
2314	STC.Ctl Profile 6.Energy Exct	Station 6 execute remote Energy setpoint change, written from SCADA, set to Off automatically	Off	Execute
2314	31C.Ctt_Floille_6.Effergy_Exct	Station 6 execute remote Outlet Pressure setpoint	Oii	Execute
		change, written from SCADA, set to Off		
2315	STC.Ctl_Profile_6.Pressure_Exct	automatically Station 6 execute remote Primary 3 setpoint	Off	Execute
		change, written from SCADA, set to Off		
2316	STC.Ctl_Profile_6.Pmry3_Exct	automatically	Off	Execute
2317	STC.STC_6.Energy_Ctl	Station 6 Energy PID loop is selected, versus flow	Flow	Energy
2318	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
2319	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
2320	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
2321	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
2322	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
2323	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
2324	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
2325	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
2326	MB.SPARE	***** RESERVED FOR FUTURE USE ******		
	MB.SPARE	***** RESERVED FOR FUTURE USE ******		

STC.ST1_Incilated	Coil#	Variable	Description	Off State	On State
STC ST2_Isolated			•		
STC.ST3 Isolated		_			
STC.ST4 Isolated Station 5 is isolated Off Isolated					
Station 5 is isolated			-		
Station 6 is isolated Station 6 is isolated Station 6 is isolated Off Isolated		-		 	
2334 MB.SPARE					
Station Shut Valve with 0 setpoint and minimum Disabled Enabled				Off	Isolated
Station Shut Valve with 0 setpoint and minimum Disabled Enabled			RESERVED FOR FOTORE USE		
STC.STC_1.SHUTIN flow rate Station 2 Shut Valve with 0 setpoint and minimum flow rate Station 3 Shut Valve with 0 setpoint and minimum flow rate Station 3 Shut Valve with 0 setpoint and minimum flow rate Station 4 Shut Valve with 0 setpoint and minimum flow rate Station 5 Shut Valve with 0 setpoint and minimum flow rate Station 5 Shut Valve with 0 setpoint and minimum flow rate Station 5 Shut Valve with 0 setpoint and minimum flow rate Station 5 Shut Valve with 0 setpoint and minimum flow rate Station 6 Shut Valve with 0 setpoint and minimum flow rate	2335	MB.SPARE	RESERVED FOR FORE USE		
STCSTC_2SHUTIN flow rate Station Shut Valve with 0 setpoint and minimum Disabled Enabled	2336	STC.STC_1.SHUTIN	flow rate	Disabled	Enabled
STC.STC 3.SHUTIN flow rate	2337	STC.STC_2.SHUTIN	flow rate	Disabled	Enabled
STC.STC 4.SHUTIN flow rate Station 5 Shut Valve with 0 setpoint and minimum flow rate Station 6 Station 6 St	2338	STC.STC_3.SHUTIN	flow rate	Disabled	Enabled
Station 5 Shut Valve with 0 sepoint and minimum Disabled Enabled	2339	STC.STC 4.SHUTIN		Disabled	Enabled
Station 6 Shut Valve with 0 setpoint and minimum Disabled Enabled					
2342 MB.SPARE """ RESERVED FOR FUTURE USE """ 2344 IO. 1.HWDIs 1.HWDI 327 """ 2345 IO. 1.HWDIs 1.HWDI 328 """ 2346 IO. 1.HWDIs 1.HWDI 329 """ 2347 IO. 1.HWDIs 1.HWDI 330 """ 2348 IO. 1.HWDIs 1.HWDI 331 """ 2349 IO. 1.HWDIs 1.HWDI 332 """ 2350 IO. 1.HWDIs 1.HWDI 333 """ 2351 IO. 1.HWDIs 1.HWDI 334 """ 2352 IO. 1.HWDIs 1.HWDI 336 """ 2353 IO. 1.HWDIs 1.HWDI 336 """ 2354 IO. 1.HWDIs 1.HWDI 336 """ 2355 IO. 1.HWDIs 1.HWDI 336 """ 2356 IO. 1.HWDIs 1.HWDI 338 """ 2357 IO. 1.HWDIs 1.HWDI 340 """ 2358 IO. 1.HWDIs 1.HWDI 341 """ 2359 IO. 1.HWDIs 1.HWDI 342 """ 2360 IO. 1.HWDIs 1.HWDI 344 """" 2361 IO. 1.HWDIs 1.HWDI 343 """" 2362 MB. SPARE """			Station 6 Shut Valve with 0 setpoint and minimum		
2943 MB.SPARE				Disabled	Enabled
MILLIAND 1.HWD 3.27			RESERVED FOR FOR TOTAL OSE		
2345 IO_1.HWDIs_1.HWDI_329			RESERVED FOR FUTURE USE		
2346 IO 1.HWDIs 1.HWDI 329					
2347 10 1.HWDIs 1.HWDI 330					
2348 IO_1.HWDIs_1.HWDI_331					
2349 IO 1.HWDIs 1.HWDI 332					
2350 IO_1.HWDIs_1.HWDI_333					
2351 IO_1.HWDIs_1.HWDI_334					
2352 IO 1.HWDIs 1.HWDI 336					
2353 IO_1.HWDIs_1.HWDI_336					
2354 IO_1.HWDIs_1.HWDI_337					
2355 IO 1.HWDIs 1.HWDI 338					
2356 IO 1.HWDIs 1.HWDI 339	2354	IO_1.HWDIs_1.HWDI_337			
2357 IO_1.HWDIs_1.HWDI_340		IO_1.HWDIs_1.HWDI_338			
2358 IO 1.HWDIs 1.HWDI 341	2356	IO_1.HWDIs_1.HWDI_339			
2359 IO 1.HWDIs 1.HWDI 342	2357	IO_1.HWDIs_1.HWDI_340			
2360 IO_1.HWDIs_1.HWDI_343	2358	IO_1.HWDIs_1.HWDI_341			
2361 IO_1.HWDIs_1.HWDI_344	2359	IO_1.HWDIs_1.HWDI_342			
2362 MB.SPARE	2360	IO_1.HWDIs_1.HWDI_343			
2363 MB.SPARE Control Wave Micro is OK Control Wave Micro is OK Fail 2364 @GV. QUEST_DATE Real Time Clock battery failure OK Fail 2365 @GV. BAT_OK RAM Battery on Control Wave Micro is OK OK Fail 2366 MB.Enron_S_Enable Senable Senable Senable Senable 2367 MB.Enron_IP_enable Senable Senable Senable Senable 2368 Modbus DO 1 Senable Senable Senable Senable 2369 Modbus DO 2 Senable	2361	IO_1.HWDIs_1.HWDI_344			
2364 @GV. QUEST_DATE Real Time Clock battery failure OK Fail 2365 @GV. BAT_OK RAM Battery on ControlWave Micro is OK OK Fail 2366 MB.Enron_S_Enable	2362	MB.SPARE			
2365 @GV. BAT_OK RAM Battery on ControlWave Micro is OK OK Fail 2366 MB.Enron_S_Enable 2367 MB.Enron_IP_enable 2368 Modbus DO 1 2369 Modbus DO 2 2370 Modbus DO 3 2371 Modbus DO 4 2372 Modbus DO 5 2373 Modbus DO 6	2363	MB.SPARE			
2366 MB.Enron_S_Enable 2367 MB.Enron_IP_enable 2368 Modbus DO 1 2369 Modbus DO 2 2370 Modbus DO 3 2371 Modbus DO 4 2372 Modbus DO 5 2373 Modbus DO 6	2364	@GVQUEST_DATE	Real Time Clock battery failure	ОК	Fail
2366 MB.Enron_S_Enable	2365	@GVBAT_OK	RAM Battery on ControlWave Micro is OK	ОК	Fail
2367 MB.Enron_IP_enable	2366	MB.Enron_S_Enable			
2368 Modbus DO 1 2369 Modbus DO 2 2370 Modbus DO 3 2371 Modbus DO 4 2372 Modbus DO 5 2373 Modbus DO 6	2367				
2369 Modbus DO 2 2370 Modbus DO 3 2371 Modbus DO 4 2372 Modbus DO 5 2373 Modbus DO 6					
2371 Modbus DO 4 2372 Modbus DO 5 2373 Modbus DO 6		Modbus DO 2			
2371 Modbus DO 4 2372 Modbus DO 5 2373 Modbus DO 6					
2372 Modbus DO 5 2373 Modbus DO 6					
2373 Modbus DO 6					
23/4 Modbus DO /	2374	Modbus DO 7			

Coil#	Variable	Description	Off State	On State
2375	Modbus DO 8	•		
2376	Modbus DO 9			
2377	Modbus DO 10			
2378	Modbus DO 11			
2379	Modbus DO 12			
2370	Modbus DO 13			
2381	Modbus DO 14			
2382	Modbus DO 15			
2383	Modbus DO 16			
2384	pg GC.GC 1.RF1 Enable			
2385	pg GC.GC 1.GC RF Data 1.IPMode			
2386	pg GC.GC 1.GC RF Data 1.Alarm Dsbl			
2387	pg_GC.GC_1.GC_RF_Data_1.SetBaseline			
2388	pg GC.GC 1.GC RF Data 1.Anlys Alrm			
2389	pg GC.GC 1.GC RF Data 1.Delta Alrm			
2390	pg GC.GC 1.RF2 Enable			
2391	pg GC.GC 1.GC RF Data 2.IPMode			
2392	pg GC.GC 1.GC RF Data 2.1FMode			
2393				
i	pg_GC.GC_1.GC_RF_Data_2.SetBaseline			
2394	pg_GC.GC_1.GC_RF_Data_2.Anlys_Alrm			
2395	pg GC.GC 1.GC RF Data 2.Delta Alrm			
2396	pg_GC.GC_1.RF3_Enable			
2397	pg_GC.GC_1.GC_RF_Data_3.IPMode			
2398	pg_GC.GC_1.GC_RF_Data_3.Alarm_Dsbl			
2399	pg_GC.GC_1.GC_RF_Data_3.SetBaseline			
2400	pg_GC.GC_1.GC_RF_Data_3.Anlys_Alrm			
2401	pg_GC.GC_1.GC_RF_Data_3.Delta_Alrm			
2402	pg_GC.GC_1.RF4_Enable			
2403	pg_GC.GC_1.GC_RF_Data_4.IPMode			
2404	pg_GC.GC_1.GC_RF_Data_4.Alarm_Dsbl			
2405	pg_GC.GC_1.GC_RF_Data_4.SetBaseline			
2406	pg_GC.GC_1.GC_RF_Data_4.Anlys_Alrm			
2407	pg_GC.GC_1.GC_RF_Data_4.Delta_Alrm			
2408	pg_GC.GC_1.RF5_Enable			
2409	pg_GC.GC_1.GC_RF_Data_5.IPMode			
2410	pg_GC.GC_1.GC_RF_Data_5.Alarm_Dsbl			
2411	pg_GC.GC_1.GC_RF_Data_5.SetBaseline			
2412	pg_GC.GC_1.GC_RF_Data_5.Anlys_Alrm			
2413	pg_GC.GC_1.GC_RF_Data_5.Delta_Alrm			
2414	pg_GC.GC_1.RF6_Enable			
2415	pg_GC.GC_1.GC_RF_Data_6.IPMode			
2416	pg_GC.GC_1.GC_RF_Data_6.Alarm_Dsbl			
2417	pg_GC.GC_1.GC_RF_Data_6.SetBaseline			
2418	pg_GC.GC_1.GC_RF_Data_6.Anlys_Alrm			
2419	pg_GC.GC_1.GC_RF_Data_6.Delta_Alrm			
2420	pg_GC.GC_1.RF7_Enable			
2421	pg_GC.GC_1.GC_RF_Data_7.IPMode			
2422	pg_GC.GC_1.GC_RF_Data_7.Alarm_Dsbl			
2423	pg_GC.GC_1.GC_RF_Data_7.SetBaseline			

			Off	On
Coil#	Variable	Description	State	State
2424	pg_GC.GC_1.GC_RF_Data_7.Anlys_Alrm			
2425	pg_GC.GC_1.GC_RF_Data_7.Delta_Alrm			
2426	pg_GC.GC_1.RF8_Enable			
2427	pg_GC.GC_1.GC_RF_Data_8.IPMode			
2428	pg_GC.GC_1.GC_RF_Data_8.Alarm_Dsbl			
2429	pg_GC.GC_1.GC_RF_Data_8.SetBaseline			
2430	pg_GC.GC_1.GC_RF_Data_8.Anlys_Alrm			
2431	pg_GC.GC_1.GC_RF_Data_8.Delta_Alrm			
2432	UFM.UFM_1.AlrmDsbl			
2433	UFM.UFM_1.OOR			
2434	UFM_UFM_1.Reset_Stats			
2435	UFM_UFM_1.DataChk.CHKSUM_FAIL			
2436	UFM_UFM_1.DataChk.STATUS_C			
2437	UFM_UFM_1.DataChk.STATUS_V			
2438	UFM_UFM_1.DataChk.STATUS_SYS			
2439	UFM_UFM_1.DataChk.ZF_Check			
2440	UFM_UFM_1.DataChk.ZF_Bias			
2441	UFM_UFM_1.DataChk.AvgFlowVel_Dvtn			
2442	UFM_UFM_1.DataChk.Auto_Alarm			
2443	UFM_UFM_1.SI_Units			
2444	UFM.UFM 2.AlrmDsbl			
2445	UFM.UFM_2.OOR			
2446	UFM UFM 2.Reset Stats			
2447	UFM UFM 2.DataChk.CHKSUM FAIL			
2448	UFM UFM 2.DataChk.STATUS C			
2449	UFM UFM 2.DataChk.STATUS V			
2450	UFM UFM 2.DataChk.STATUS SYS			
2451	UFM UFM 2.DataChk.ZF Check			
2452	UFM UFM 2.DataChk.ZF Bias			
2453	UFM_UFM_2.DataChk.AvgFlowVel_Dvtn			
2454	UFM_UFM_2.DataChk.Auto_Alarm			
2455	UFM UFM 2.SI Units			
2456	UFM.UFM_3.AlrmDsbl			
2457	UFM.UFM 3.OOR			
2458	UFM UFM 3.Reset Stats			
2459	UFM UFM 3.DataChk.CHKSUM FAIL			
2460	UFM UFM 3.DataChk.STATUS C			
2461	UFM UFM 3.DataChk.STATUS V			
2462	UFM UFM 3.DataChk.STATUS SYS			
2463	UFM UFM 3.DataChk.ZF Check			
2464	UFM UFM 3.DataChk.ZF Bias			
2465	UFM UFM 3.DataChk.AvgFlowVel Dvtn			
2466	UFM UFM 3.DataChk.Auto Alarm			
2467	UFM UFM 3.SI Units			
2468	UFM.UFM 4.AlrmDsbl			
2469	UFM.UFM 4.OOR			
2470	UFM UFM 4.Reset Stats			
2471	UFM UFM 4.DataChk.CHKSUM FAIL			
2471	UFM UFM 4.DataChk.STATUS C			
2412	UT WI_UTWI_4.DataClik.31A1U3_C			

Co:I#	Variable	Description	Off	On State
Coil#	Variable	Description	State	State
2473	UFM_UFM_4.DataChk.STATUS_V			
2474	UFM_UFM_4.DataChk.STATUS_SYS			
2475	UFM_UFM_4.DataChk.ZF_Check			
2476	UFM_UFM_4.DataChk.ZF_Bias			
2477	UFM_UFM_4.DataChk.AvgFlowVel_Dvtn			
2478	UFM_UFM_4.DataChk.Auto_Alarm			
2479	UFM_UFM_4.SI_Units			
2480	UFM.UFM_5.AlrmDsbl			
2481	UFM.UFM_5.OOR			
2482	UFM_UFM_5.Reset_Stats			
2483	UFM_UFM_5.DataChk.CHKSUM_FAIL			
2484	UFM_UFM_5.DataChk.STATUS_C			
2485	UFM_UFM_5.DataChk.STATUS_V			
2486	UFM_UFM_5.DataChk.STATUS_SYS			
2487	UFM_UFM_5.DataChk.ZF_Check			
2488	UFM_UFM_5.DataChk.ZF_Bias			
2489	UFM_UFM_5.DataChk.AvgFlowVel_Dvtn			
2490	UFM_UFM_5.DataChk.Auto_Alarm			
2491	UFM_UFM_5.SI_Units			
2492	UFM.UFM_6.AlrmDsbl			
2493	UFM.UFM_6.OOR			
2494	UFM UFM 6.Reset Stats			
2495	UFM UFM 6.DataChk.CHKSUM FAIL			
2496	UFM UFM 6.DataChk.STATUS C			
2497	UFM UFM 6.DataChk.STATUS V			
2498	UFM UFM 6.DataChk.STATUS SYS			
2499	UFM UFM 6.DataChk.ZF Check			
2500	UFM UFM 6.DataChk.ZF Bias			
2501	UFM UFM 6.DataChk.AvgFlowVel Dvtn			
2502	UFM UFM 6.DataChk.Auto Alarm			
2503	UFM_UFM_6.SI_Units			
2504	UFM.UFM_7.AlrmDsbl			
2505	UFM.UFM 7.OOR			
2506	UFM UFM 7.Reset Stats			
2507	UFM UFM 7.DataChk.CHKSUM FAIL			
2508	UFM_UFM_7.DataChk.STATUS_C			
2509	UFM UFM 7.DataChk.STATUS V			
2510	UFM_UFM_7.DataChk.STATUS_V			
2510	UFM_UFM_7.DataChk.ZF_Check			
2512	UFM_UFM_7.DataChk.ZF_Bias			
2513	UFM_UFM_7.DataChk.AvgFlowVel_Dvtn			
2514	UFM_UFM_7.DataChk.Auto_Alarm			
2515	UFM_UFM_7.SI_Units			
2516	UFM.UFM_8.AlrmDsbl			
2517	UFM.UFM_8.OOR			
2518	UFM_UFM_8.Reset_Stats			
2519	UFM_UFM_8.DataChk.CHKSUM_FAIL			
2520	UFM_UFM_8.DataChk.STATUS_C			
2521	UFM_UFM_8.DataChk.STATUS_V]

			Off	On
Coil#	Variable	Description	State	State
2522	UFM_UFM_8.DataChk.STATUS_SYS			
2523	UFM_UFM_8.DataChk.ZF_Check			
2524	UFM_UFM_8.DataChk.ZF_Bias			
2525	UFM_UFM_8.DataChk.AvgFlowVel_Dvtn			
2526	UFM_UFM_8.DataChk.Auto_Alarm			
2527	UFM_UFM_8.SI_Units			
2528	FC.AA_1_TabNorm			
2529	FC.AA_2_TabNorm			
2530	FC.AA_3_TabNorm			
2531	FC.AA_4_TabNorm			
2532	FC.AA_5_TabNorm			
2533	FC.AA_6_TabNorm			
2534	FC.AA_7_TabNorm			
2535	FC.AA_8_TabNorm			
2536	MB.Spare			
2537	MB.Spare			
2538	MB.Spare			
2539	MB.Spare			
2540	pg_GC.GC_1.GC_1.GC_Alrm			
2541	pg_GC.GC_1.GC_1.Stream_Alrm			
2542	pg_GC.GC_1.GC_1.Fixed_Alrm			
2543	pg_GC.GC_1.GC_1.TimedFixed_Alrm			
2544	pg_GC.GC_1.GC_2.GC_Alrm			
2545	pg_GC.GC_1.GC_2.Stream_Alrm			
2546	pg_GC.GC_1.GC_2.Fixed_Alrm			
2547	pg_GC.GC_1.GC_2.TimedFixed_Alrm			
2548	pg_GC.GC_1.GC_3.GC_Alrm			
2549	pg_GC.GC_1.GC_3.Stream_Alrm			
2550	pg_GC.GC_1.GC_3.Fixed_Alrm			
2551	pg GC.GC 1.GC 3.TimedFixed Alrm			
2552	pg_GC.GC_1.GC_4.GC_Alrm			
2553	pg_GC.GC_1.GC_4.Stream_Alrm			
2554	pg_GC.GC_1.GC_4.Fixed_Alrm			
2555	pg_GC.GC_1.GC_4.TimedFixed_Alrm			
2556	pg GC.GC 1.GC 5.GC Alrm			
2557	pg GC.GC 1.GC 5.Stream Alrm			
2558	pg_GC.GC_1.GC_5.Fixed_Alrm			
2559	pg_GC.GC_1.GC_5.TimedFixed_Alrm			
2560	pg_GC.GC_1.GC_6.GC_Alrm			
2561	pg GC.GC 1.GC 6.Stream Alrm			
2562	pg GC.GC 1.GC 6.Fixed Alrm			
2563	pg_GC.GC_1.GC_6.TimedFixed_Alrm			
2564	pg_GC.GC_1.GC_7.GC_Alrm			
2565	pg GC.GC 1.GC 7.Stream Alrm			
2566	pg GC.GC 1.GC 7.Stream Aim			
2567	pg_GC.GC_1.GC_7.Fixed_Airm pg_GC.GC_1.GC_7.TimedFixed_Airm			
2568	pg_GC.GC_1.GC_8.GC_Alrm			
2569	pg_GC.GC_1.GC_8.Stream_Alrm			
2570	pg_GC.GC_1.GC_8.Fixed_Alrm			

Coil#	Variable	Description	Off State	On State
2571	pg_GC.GC_1.GC_8.TimedFixed_Alrm	Besonption	Otato	Otato
2572	HRT.HART 1 Enable			
2573	HRT.HART 2 Enable			
2574	HRT.HART 3 Enable			
2575	HRT.HART_4_Enable			
2576	HRT.HART_5_Enable			
2577	HRT.HART_6_Enable			
2578	HRT.HART_7_Enable			
2579	HRT.HART_8_Enable			
2580	HRT.HART_9_Enable			
2581	HRT.HART_10_Enable			
2582	HRT.HART_11_Enable			
2583	HRT.HART_12_Enable			
2584	HRT.HART_13_Enable			
2585	HRT.HART_14_Enable			
2586	HRT.HART_15_Enable			
2587	HRT.HART_16_Enable			
2588	HRT.HART_17_Enable			
2589	HRT.HART_18_Enable			
2590	WHRT.WHART_Enable			

Table M-2 Modbus Register Map – REAL Variables

Reg#	Variable	Description
		Poll interval for Process variables from the MVT,
7001	MVT.MVT_PVINT	in millisecond
7000	AN (TAN) (T. DIA CINIT	Poll interval for Diagnostics data from the MVT,
7002	MVT.MVT_DIAGINT	in millisecond
7003	MVT.MVT_TIMEOUT	
7004	MVT.MVT_1_PORT	CWM Master Port connected to MVT 1
7005	MVT.MVT_1_ADDRESS	Address of MVT 1
7006	MVT.MVT_1_MRTYPE	
7007	MVT.MVT 1 FB.MB PVS.REGSET	Register Set to be polled from MVT - FALSE or 0 = 40000, TRUE or 1 = 7000
7008	MVT.MVT 2 PORT	CWM Master Port connected to MVT 2
7009	MVT.MVT_2_ADDRESS	Address of MVT 2
7010	MVT.MVT 2 MRTYPE	
7011	MVT.MVT_2_FB.MB_PVS.REGSET	Register Set to be polled from MVT - FALSE or 0 = 40000, TRUE or 1 = 7000
7012	MVT.MVT_3_PORT	CWM Master Port connected to MVT 3
7013	MVT.MVT_3_ADDRESS	Address of MVT 3
7014	MVT.MVT 3 MRTYPE	
7015	MVT.MVT_3_FB.MB_PVS.REGSET	Register Set to be polled from MVT - FALSE or 0 = 40000, TRUE or 1 = 7000
7016	MVT.MVT_4_PORT	CWM Master Port connected to MVT 4
7017	MVT.MVT_4_ADDRESS	Address of MVT 4
7018	MVT.MVT 4 MRTYPE	
7019	MVT.MVT_4_FB.MB_PVS.REGSET	Register Set to be polled from MVT - FALSE or 0 = 40000, TRUE or 1 = 7000
7020	MVT.MVT_5_PORT	CWM Master Port connected to MVT 5
7021	MVT.MVT_5_ADDRESS	Address of MVT 5

Reg#	Variable	Description
7022	MVT.MVT 5 MRTYPE	•
		Register Set to be polled from MVT - FALSE or 0
7023	MVT.MVT_5_FB.MB_PVS.REGSET	= 40000, TRUE or 1 = 7000
7024	MVT.MVT_6_PORT	CWM Master Port connected to MVT 6
7025	MVT.MVT_6_ADDRESS	Address of MVT 6
7026	MVT.MVT_6_MRTYPE	Desistes Octto be welled force MAYT. FALOR and
7027	MVT.MVT 6 FB.MB PVS.REGSET	Register Set to be polled from MVT - FALSE or 0 = 40000, TRUE or 1 = 7000
7028	MVT.MVT 7 PORT	CWM Master Port connected to MVT 7
7029	MVT.MVT 7 ADDRESS	Address of MVT 7
7030	MVT.MVT 7 MRTYPE	Address of MV17
7000	17_W(X) 1 _ 1 _ W(X) 11 E	Register Set to be polled from MVT - FALSE or 0
7031	MVT.MVT_7_FB.MB_PVS.REGSET	= 40000, TRUE or 1 = 7000
7032	MVT.MVT_8_PORT	CWM Master Port connected to MVT 8
7033	MVT.MVT_8_ADDRESS	Address of MVT 8
7034	MVT.MVT_8_MRTYPE	
7005	MANATANATA O ED MAD DIVIO DECOCET	Register Set to be polled from MVT - FALSE or 0
7035	MVT.MVT_8_FB.MB_PVS.REGSET	= 40000, TRUE or 1 = 7000
7036	MVT.MVT_9_PORT	CWM Master Port connected to MVT 9
7037	MVT.MVT_9_ADDRESS	Address of MVT 9
7038	MVT.MVT_9_MRTYPE	Register Set to be polled from MVT - FALSE or 0
7039	MVT.MVT_9_FB.MB_PVS.REGSET	= 40000, TRUE or 1 = 7000
7040	MVT.MVT_10_PORT	CWM Master Port connected to MVT 10
7041	MVT.MVT_10_ADDRESS	Address of MVT 10
7042	MVT.MVT_10_MRTYPE	
7043	MVT.MVT_10_FB.MB_PVS.REGSET	Register Set to be polled from MVT - FALSE or 0 = 40000, TRUE or 1 = 7000
7044	MVT.MVT_11_PORT	CWM Master Port connected to MVT 11
7045	MVT.MVT_11_ADDRESS	Address of MVT 11
7046	MVT.MVT_11_MRTYPE	
7047	MVT.MVT_11_FB.MB_PVS.REGSET	Register Set to be polled from MVT - FALSE or 0 = 40000, TRUE or 1 = 7000
7048	MVT.MVT_12_PORT	CWM Master Port connected to MVT 12
7049	MVT.MVT_12_ADDRESS	Address of MVT 12
7050	MVT.MVT_12_MRTYPE	
7051	MVT.MVT_12_FB.MB_PVS.REGSET	Register Set to be polled from MVT - FALSE or 0 = 40000, TRUE or 1 = 7000
7052	FC.STATION_1_ATMOS	Station 1 atmospheric (barometric) pressure
7053	FC.STATION_1_ATMOS_UNITS	Station 1 atmospheric pressure units
7054	FC.STATION_1_BASEPRES	Station 1 base pressure
7055	FC.STATION_1_BASEPRES_UNITS	Station 1 base pressure units
7056	FC.STATION_1_BASETEMP	Station 1 base temperature
7057	FC.STATION_1_BASETEMP_UNITS	Station 1 base temperature units
7058	FC.STATION_1_CONTRACTHOUR	Station 1 contract hour
7059	FC.STATION_1_GCSTREAM	Station 1 GC Data set to be used
7060	FC.STATION_1_FPV_CALC	Station 1 FPV calculation method
7061	FC.STATION_1_GROSSMODE	Station 1 AGA 8 Gross Method
7062	FC.STATION_1_VOLUMEUNITS	Station 1 volume units
7063	FC.STATION_1_ENERGYVOLUNITS	Station 1 energy units
7064	FC.STATION_1_FFLOWRATE	Station 1 forward flow rate
7065	FC.STATION_1_RFLOWRATE	Station 1 reverse flow rate

Reg#	Variable	Description
7066	FC.STATION 1 FENERGYRATE	Station 1 forward energy rate
7067	FC.STATION 1 RENERGYRATE	Station 1 reverse energy rate
7068	FC.STATION 1 CH FVOLUME	Station 1 forward volume current hour
7069	FC.STATION 1 CH RVOLUME	Station 1 reverse volume current hour
7070	FC.STATION 1 LH FVOLUME	Station 1 forward volume previous hour
7071	FC.STATION_1_LH_RVOLUME	Station 1 reverse volume previous hour
7072	FC.STATION 1 CD FVOLUME	Station 1 forward volume current day
7073	FC.STATION 1 CD RVOLUME	Station 1 reverse volume current day
7074	FC.STATION 1 LD FVOLUME	Station 1 forward volume previous day
7075	FC.STATION 1 LD RVOLUME	Station 1 reverse volume previous day
7076	FC.STATION 1 CM FVOLUME	Station 1 forward volume current month
7077	FC.STATION 1 CM RVOLUME	Station 1 reverse volume current month
7078	FC.STATION 1 LM FVOLUME	Station 1 forward volume previous month
7079	FC.STATION 1 LM RVOLUME	Station 1 reverse volume previous month
7080	FC.STATION 1 CH FENERGY	Station 1 forward energy current hour
7081	FC.STATION 1 CH RENERGY	Station 1 reverse energy current hour
7082	FC.STATION 1 LH FENERGY	Station 1 forward energy previous hour
7083	FC.STATION 1 LH RENERGY	Station 1 reverse energy previous hour
7084	FC.STATION 1 CD FENERGY	Station 1 forward energy current day
7085	FC.STATION 1 CD RENERGY	Station 1 reverse energy current day
7086	FC.STATION_1_LD_FENERGY	Station 1 forward energy previous day
7087	FC.STATION 1 LD RENERGY	Station 1 reverse energy previous day
7088	FC.STATION_1_CM_FENERGY	Station 1 forward energy current month
7089	FC.STATION_1_CM_RENERGY	Station 1 reverse energy current month
7090	FC.STATION_1_LM_FENERGY	Station 1 forward energy previous month
7091	FC.STATION_1_LM_RENERGY	Station 1 reverse energy previous month
7092	FC.STATION_2_ATMOS	Station 2 atmospheric (barometric) pressure
7093	FC.STATION_2_ATMOS_UNITS	Station 2 atmospheric pressure units
7094	FC.STATION_2_BASEPRES	Station 2 base pressure
7095	FC.STATION_2_BASEPRES_UNITS	Station 2 base pressure units
7096	FC.STATION_2_BASETEMP	Station 2 base temperature
7097	FC.STATION_2_BASETEMP_UNITS	Station 2 base temperature units
7098	FC.STATION_2_CONTRACTHOUR	Station 2 contract hour
7099	FC.STATION_2_GCSTREAM	Station 2 GC Data set to be used
7100	FC.STATION_2_FPV_CALC	Station 2 FPV calculation method
7101	FC.STATION_2_GROSSMODE	Station 2 AGA 8 Gross Method
7102	FC.STATION_2_VOLUMEUNITS	Station 2 volume units
7103	FC.STATION_2_ENERGYVOLUNITS	Station 2 energy units
7104	FC.STATION_2_FFLOWRATE	Station 2 forward flow rate
7105	FC.STATION_2_RFLOWRATE	Station 2 reverse flow rate
7106	FC.STATION_2_FENERGYRATE	Station 2 forward energy rate
7107	FC.STATION_2_RENERGYRATE	Station 2 reverse energy rate
7108	FC.STATION 2 CH_FVOLUME	Station 2 forward volume current hour
7109	FC.STATION_2_CH_RVOLUME	Station 2 reverse volume current hour
7110	FC.STATION_2_LH_FVOLUME	Station 2 forward volume previous hour
7111	FC.STATION_2_LH_RVOLUME	Station 2 reverse volume previous hour
7112	FC.STATION_2_CD_FVOLUME	Station 2 forward volume current day
7113	FC.STATION_2_CD_RVOLUME	Station 2 reverse volume current day
7114	FC.STATION 2 LD FVOLUME	Station 2 forward volume previous day
7115	FC.STATION_2_LD_RVOLUME	Station 2 reverse volume previous day

Reg# Variable	Description
7116 FC.STATION_2_CM_FVOLUME	Station 2 forward volume current month
7117 FC.STATION 2 CM RVOLUME	Station 2 reverse volume current month
7118 FC.STATION 2 LM FVOLUME	Station 2 forward volume previous month
7119 FC.STATION 2 LM RVOLUME	Station 2 reverse volume previous month
7120 FC.STATION 2 CH FENERGY	Station 2 forward energy current hour
7121 FC.STATION 2 CH RENERGY	Station 2 reverse energy current hour
7122 FC.STATION 2 LH FENERGY	Station 2 forward energy previous hour
7123 FC.STATION 2 LH RENERGY	Station 2 reverse energy previous hour
7124 FC.STATION 2 CD FENERGY	Station 2 forward energy current day
7125 FC.STATION 2 CD RENERGY	Station 2 reverse energy current day
7126 FC.STATION 2 LD FENERGY	Station 2 forward energy previous day
7127 FC.STATION 2 LD RENERGY	Station 2 reverse energy previous day
7128 FC.STATION 2 CM FENERGY	Station 2 forward energy current month
7129 FC.STATION 2 CM RENERGY	Station 2 reverse energy current month
7130 FC.STATION 2 LM FENERGY	Station 2 forward energy previous month
7131 FC.STATION 2 LM RENERGY	Station 2 reverse energy previous month
7132 FC.STATION_3_ATMOS	Station 3 atmospheric (barometric) pressure
7133 FC.STATION 3 ATMOS UNITS	Station 3 atmospheric pressure units
7134 FC.STATION 3 BASEPRES	Station 3 base pressure
7135 FC.STATION 3 BASEPRES UNITS	· · · · · · · · · · · · · · · · · · ·
7136 FC.STATION 3 BASETEMP	Station 3 base temperature
7137 FC.STATION 3 BASETEMP UNITS	•
7138 FC.STATION 3 CONTRACTHOUR	Station 3 contract hour
7139 FC.STATION_3_GCSTREAM	Station 3 GC Data set to be used
7140 FC.STATION 3 FPV CALC	Station 3 FPV calculation method
7141 FC.STATION_3_GROSSMODE	Station 3 AGA 8 Gross Method
7142 FC.STATION 3 VOLUMEUNITS	Station 3 volume units
7143 FC.STATION 3 ENERGYVOLUNITS	
7144 FC.STATION 3 FFLOWRATE	Station 3 forward flow rate
7145 FC.STATION 3 RFLOWRATE	Station 3 reverse flow rate
7146 FC.STATION 3 FENERGYRATE	Station 3 forward energy rate
7147 FC.STATION 3 RENERGYRATE	Station 3 reverse energy rate
7148 FC.STATION_3_CH_FVOLUME	Station 3 forward volume current hour
7149 FC.STATION 3 CH RVOLUME	Station 3 reverse volume current hour
7150 FC.STATION 3 LH FVOLUME	Station 3 forward volume previous hour
7151 FC.STATION_3_LH_RVOLUME	Station 3 reverse volume previous hour
7152 FC.STATION_3_CD_FVOLUME	Station 3 forward volume current day
7153 FC.STATION_3_CD_RVOLUME	Station 3 reverse volume current day
7154 FC.STATION_3_LD_FVOLUME	Station 3 forward volume previous day
7155 FC.STATION_3_LD_RVOLUME	Station 3 reverse volume previous day
7156 FC.STATION_3_CM_FVOLUME	Station 3 forward volume current month
7157 FC.STATION_3_CM_RVOLUME	Station 3 reverse volume current month
7158 FC.STATION 3 LM FVOLUME	Station 3 forward volume previous month
7159 FC.STATION_3_LM_RVOLUME	Station 3 reverse volume previous month
7160 FC.STATION_3_CH_FENERGY	Station 3 forward energy current hour
7161 FC.STATION_3_CH_RENERGY	Station 3 reverse energy current hour
7162 FC.STATION_3_LH_FENERGY	Station 3 forward energy previous hour
7163 FC.STATION_3_LH_RENERGY	Station 3 reverse energy previous hour
7164 FC.STATION_3_CD_FENERGY	Station 3 forward energy current day
	Station 3 reverse energy current day

Reg#	Variable	Description
7166	FC.STATION 3 LD FENERGY	Station 3 forward energy previous day
7167	FC.STATION 3 LD RENERGY	Station 3 reverse energy previous day
7168	FC.STATION 3 CM FENERGY	Station 3 forward energy current month
7169	FC.STATION 3 CM RENERGY	Station 3 reverse energy current month
7170	FC.STATION 3 LM FENERGY	Station 3 forward energy previous month
7171	FC.STATION_3_LM_RENERGY	Station 3 reverse energy previous month
7172	FC.STATION 4 ATMOS	Station 4 atmospheric (barometric) pressure
7173	FC.STATION 4 ATMOS UNITS	Station 4 atmospheric pressure units
7174	FC.STATION 4 BASEPRES	Station 4 base pressure
7175	FC.STATION 4 BASEPRES UNITS	Station 4 base pressure units
7176	FC.STATION 4 BASETEMP	Station 4 base temperature
7177	FC.STATION 4 BASETEMP UNITS	Station 4 base temperature units
7178	FC.STATION 4 CONTRACTHOUR	Station 4 contract hour
7179	FC.STATION 4 GCSTREAM	Station 4 GC Data set to be used
7180	FC.STATION_4_GCGTNEAM	Station 4 GC Data set to be used Station 4 FPV calculation method
7181	FC.STATION 4 GROSSMODE	Station 4 AGA 8 Gross Method
7182	FC.STATION_4_GROSSMODE FC.STATION 4 VOLUMEUNITS	Station 4 volume units
7183		
7184	FC.STATION_4_ENERGYVOLUNITS	Station 4 energy units Station 4 forward flow rate
7185	FC.STATION_4_FFLOWRATE FC.STATION 4 RFLOWRATE	Station 4 reverse flow rate
	-	
7186	FC.STATION_4_FENERGYRATE	Station 4 forward energy rate
7187	FC.STATION_4_RENERGYRATE	Station 4 reverse energy rate
7188	FC.STATION_4_CH_FVOLUME	Station 4 forward volume current hour
7189	FC.STATION_4_CH_RVOLUME	Station 4 reverse volume current hour
7190	FC.STATION 4 LH FVOLUME	Station 4 forward volume previous hour
7191	FC.STATION_4_LH_RVOLUME	Station 4 reverse volume previous hour
7192	FC.STATION_4_CD_FVOLUME	Station 4 forward volume current day
7193	FC.STATION_4_CD_RVOLUME	Station 4 reverse volume current day
7194	FC.STATION 4 LD FVOLUME	Station 4 forward volume previous day
7195	FC.STATION_4_LD_RVOLUME	Station 4 reverse volume previous day
7196	FC.STATION 4 CM FVOLUME	Station 4 forward volume current month
7197	FC.STATION_4_CM_RVOLUME	Station 4 reverse volume current month
7198	FC.STATION_4_LM_FVOLUME	Station 4 forward volume previous month
7199	FC.STATION_4_LM_RVOLUME	Station 4 reverse volume previous month
7200	FC.STATION_4_CH_FENERGY	Station 4 forward energy current hour
7201	FC.STATION_4_CH_RENERGY	Station 4 reverse energy current hour
7202	FC.STATION 4 LH PENERGY	Station 4 forward energy previous hour
7203	FC.STATION_4_LH_RENERGY	Station 4 reverse energy previous hour
7204	FC.STATION_4_CD_FENERGY	Station 4 forward energy current day
7205	FC.STATION_4_CD_RENERGY	Station 4 reverse energy current day
7206	FC.STATION_4_LD_FENERGY	Station 4 forward energy previous day
7207	FC.STATION_4_LD_RENERGY	Station 4 reverse energy previous day
7208	FC.STATION 4 CM FENERGY	Station 4 forward energy current month
7209	FC.STATION_4_CM_RENERGY	Station 4 reverse energy current month
7210	FC.STATION_4_LM_FENERGY	Station 4 forward energy previous month
7211	FC.STATION_4_LM_RENERGY	Station 4 reverse energy previous month
7212	FC.STATION_5_ATMOS	Station 5 atmospheric (barometric) pressure
7213	FC.STATION_5_ATMOS_UNITS	Station 5 atmospheric pressure units
7214	FC.STATION_5_BASEPRES	Station 5 base pressure
7215	FC.STATION_5_BASEPRES_UNITS	Station 5 base pressure units

Reg#	Variable	Description
7216	FC.STATION 5 BASETEMP	Station 5 base temperature
7217	FC.STATION 5 BASETEMP UNITS	Station 5 base temperature units
7218	FC.STATION 5 CONTRACTHOUR	Station 5 contract hour
7219	FC.STATION 5 GCSTREAM	Station 5 GC Data set to be used
7220	FC.STATION 5 FPV CALC	Station 5 FPV calculation method
7221	FC.STATION_5_GROSSMODE	Station 5 AGA 8 Gross Method
7222	FC.STATION 5 VOLUMEUNITS	Station 5 volume units
7223	FC.STATION_5_ENERGYVOLUNITS	Station 5 energy units
7224	FC.STATION_5_FFLOWRATE	Station 5 forward flow rate
7225	FC.STATION 5 RFLOWRATE	Station 5 reverse flow rate
7226	FC.STATION_5_FENERGYRATE	Station 5 forward energy rate
7227	FC.STATION_5_RENERGYRATE	Station 5 reverse energy rate
7228	FC.STATION_5_CH_FVOLUME	Station 5 forward volume current hour
7229	FC.STATION_5_CH_RVOLUME	Station 5 reverse volume current hour
7230	FC.STATION_5_LH_FVOLUME	Station 5 forward volume previous hour
7231	FC.STATION_5_LH_RVOLUME	Station 5 reverse volume previous hour
7232	FC.STATION_5_CD_FVOLUME	Station 5 forward volume current day
7233	FC.STATION_5_CD_RVOLUME	Station 5 reverse volume current day
7234	FC.STATION_5_LD_FVOLUME	Station 5 forward volume previous day
7235	FC.STATION_5_LD_RVOLUME	Station 5 reverse volume previous day
7236	FC.STATION_5_CM_FVOLUME	Station 5 forward volume current month
7237	FC.STATION_5_CM_RVOLUME	Station 5 reverse volume current month
7238	FC.STATION_5_LM_FVOLUME	Station 5 forward volume previous month
7239	FC.STATION_5_LM_RVOLUME	Station 5 reverse volume previous month
7240	FC.STATION_5_CH_FENERGY	Station 5 forward energy current hour
7241	FC.STATION_5_CH_RENERGY	Station 5 reverse energy current hour
7242	FC.STATION_5_LH_FENERGY	Station 5 forward energy previous hour
7243	FC.STATION_5_LH_RENERGY	Station 5 reverse energy previous hour
7244	FC.STATION_5_CD_FENERGY	Station 5 forward energy current day
7245	FC.STATION_5_CD_RENERGY	Station 5 reverse energy current day
7246	FC.STATION_5_LD_FENERGY	Station 5 forward energy previous day
7247	FC.STATION_5_LD_RENERGY	Station 5 reverse energy previous day
7248	FC.STATION_5_CM_FENERGY	Station 5 forward energy current month
7249	FC.STATION_5_CM_RENERGY	Station 5 reverse energy current month
7250	FC.STATION_5_LM_FENERGY	Station 5 forward energy previous month
7251	FC.STATION_5_LM_RENERGY	Station 5 reverse energy previous month
7252	FC.STATION_6_ATMOS_UNITS	Station 6 atmospheric (barometric) pressure
7253	FC.STATION_6_ATMOS_UNITS	Station 6 atmospheric pressure units
7254	FC.STATION_6_BASEPRES_UNITS	Station 6 base pressure
7255	FC.STATION 6 BASEFRES UNITS	Station 6 base pressure units
7256	FC.STATION 6 BASETEMP LINITS	Station 6 base temperature
7257	FC.STATION_6_BASETEMP_UNITS	Station 6 base temperature units
7258	FC.STATION 6 COSTREAM	Station 6 CC Data set to be used
7259	FC.STATION_6_GCSTREAM	Station 6 GC Data set to be used
7260 7261	FC.STATION_6_FPV_CALC FC.STATION 6 GROSSMODE	Station 6 FPV calculation method Station 6 AGA 8 Gross Method
7262	FC.STATION_6_GROSSMODE FC.STATION 6 VOLUMEUNITS	Station 6 AGA 8 Gross Method Station 6 volume units
7263	FC.STATION_6_VOLUMEUNITS FC.STATION_6_ENERGYVOLUNITS	Station 6 volume units Station 6 energy units
7264	FC.STATION_6_ENERGY VOLUNITS FC.STATION 6 FFLOWRATE	Station 6 forward flow rate
	FC.STATION_6_FFLOWRATE FC.STATION 6 RFLOWRATE	Station 6 reverse flow rate
7265	I O.OTATION_U_NFLOWNATE	Station o reverse now rate

Reg#	Variable	Description	
7266	FC.STATION 6 FENERGYRATE	Station 6 forward energy rate	
7267	FC.STATION 6 RENERGYRATE	Station 6 reverse energy rate	
7268	FC.STATION 6 CH FVOLUME	Station 6 forward volume current hour	
7269	FC.STATION 6 CH RVOLUME	Station 6 reverse volume current hour	
7270	FC.STATION 6 LH FVOLUME	Station 6 forward volume previous hour	
7271	FC.STATION_6_LH_RVOLUME	Station 6 reverse volume previous hour	
7272	FC.STATION 6 CD FVOLUME	Station 6 forward volume current day	
7273	FC.STATION 6 CD RVOLUME	Station 6 reverse volume current day	
7274	FC.STATION 6 LD FVOLUME	Station 6 forward volume previous day	
7275	FC.STATION 6 LD RVOLUME	Station 6 reverse volume previous day	
7276	FC.STATION 6 CM FVOLUME	Station 6 forward volume current month	
7277	FC.STATION 6 CM RVOLUME	Station 6 reverse volume current month	
7278	FC.STATION 6 LM FVOLUME	Station 6 forward volume previous month	
7279	FC.STATION 6 LM RVOLUME	Station 6 reverse volume previous month	
7280	FC.STATION 6 CH FENERGY	Station 6 forward energy current hour	
7281	FC.STATION 6 CH RENERGY	Station 6 reverse energy current hour	
7282	FC.STATION 6 LH FENERGY	Station 6 forward energy previous hour	
7283	FC.STATION 6 LH RENERGY	Station 6 reverse energy previous hour	
7284	FC.STATION 6 CD FENERGY	Station 6 forward energy current day	
7285	FC.STATION 6 CD RENERGY	Station 6 reverse energy current day	
7286	FC.STATION_6_LD_FENERGY	Station 6 forward energy previous day	
7287	FC.STATION 6 LD RENERGY	Station 6 reverse energy previous day	
7288	FC.STATION_6_CM_FENERGY	Station 6 forward energy current month	
7289	FC.STATION_6_CM_RENERGY	Station 6 reverse energy current month	
7290	FC.STATION 6 LM FENERGY	Station 6 forward energy previous month	
7291	FC.STATION_6_LM_RENERGY	Station 6 reverse energy previous month	
7292	MB.SPARE	*** RESERVED FOR FUTURE USE ***	
7293	MB.SPARE	*** RESERVED FOR FUTURE USE ***	
7294	MB.SPARE	*** RESERVED FOR FUTURE USE ***	
7295	MB.SPARE	*** RESERVED FOR FUTURE USE ***	
7296	MB.SPARE	*** RESERVED FOR FUTURE USE ***	
7297	MB.SPARE	*** RESERVED FOR FUTURE USE ***	
7298	MB.SPARE	*** RESERVED FOR FUTURE USE ***	
7299	MB.SPARE	*** RESERVED FOR FUTURE USE ***	
7300	MB.SPARE	*** RESERVED FOR FUTURE USE ***	
7301	MB.SPARE	*** RESERVED FOR FUTURE USE ***	
7302	MB.SPARE	*** RESERVED FOR FUTURE USE ***	
7303	MB.SPARE	*** RESERVED FOR FUTURE USE ***	
7304	MB.SPARE	*** RESERVED FOR FUTURE USE ***	
7305	MB.SPARE	*** RESERVED FOR FUTURE USE ***	
7306	MB.SPARE	*** RESERVED FOR FUTURE USE ***	
7307	MB.SPARE	*** RESERVED FOR FUTURE USE ***	
7308	MB.SPARE	*** RESERVED FOR FUTURE USE ***	
7309	MB.SPARE	*** RESERVED FOR FUTURE USE ***	
7310	MB.SPARE	*** RESERVED FOR FUTURE USE ***	
7311	MB.SPARE	*** RESERVED FOR FUTURE USE ***	
7312	MB.SPARE	*** RESERVED FOR FUTURE USE ***	
7313	MB.SPARE	*** RESERVED FOR FUTURE USE ***	
7314	MB.SPARE	*** RESERVED FOR FUTURE USE ***	
7315	MB.SPARE	*** RESERVED FOR FUTURE USE ***	

Reg#	Variable	Description
7316	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7317	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7318	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7319	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7320	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7321	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7322	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7323	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7324	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7325	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7326	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7327	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7328	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7329	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7330	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7331	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7331	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7333	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7334	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7334	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7336	MB.SPARE	*** RESERVED FOR FUTURE USE ***
		*** RESERVED FOR FUTURE USE ***
7337	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7338	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7339	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7340 7341	MB.SPARE MB.SPARE	*** RESERVED FOR FUTURE USE ***
7341	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7342	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7343	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7344	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7346	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7347	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7347	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7349	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7349		*** RESERVED FOR FUTURE USE ***
	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7351 7352	MB.SPARE MB.SPARE	*** RESERVED FOR FUTURE USE ***
7352	MB.SPARE MB.SPARE	*** RESERVED FOR FUTURE USE ***
7353	MB.SPARE MB.SPARE	*** RESERVED FOR FUTURE USE ***
		*** RESERVED FOR FUTURE USE ***
7355	MB.SPARE	
7356	MB.SPARE	*** RESERVED FOR FUTURE USE *** *** RESERVED FOR FUTURE USE ***
7357	MB.SPARE	
7358	MB.SPARE	*** RESERVED FOR FUTURE USE *** *** RESERVED FOR FUTURE USE ***
7359	MB.SPARE	
7360	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7361	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7362	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7363	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7364	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7365	MB.SPARE	*** RESERVED FOR FUTURE USE ***

Reg#	Variable	Description
7366	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7367	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7368	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7369	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7370	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7371	MB.SPARE	*** RESERVED FOR FUTURE USE ***
7372	FC.FC1.RX CFG TYPE	Run 1 configuration type
7373	FC.RUN 1 STATION	Run 1 station assignment
7374	FC.RUN 1 DIRECTION	Run 1 direction
7375	FC.RUN 1 SPSOURCE	Run 1 static pressure source
7376	FC.R1 MVTID SP	Run 1 MVT ID for static pressure
7377	FC.FC1.RX SP BUF	Run 1 static pressure value
7378	FC.RUN 1 FTSOURCE	Run 1 temperature source
7379	FC.R1 MVTID FT	Run 1 MVT ID for temperature
7380	FC.FC1.RX FTEMP BUF	Run 1 temperature value
7381	FC.FC1.RX_PIPE_DIAM	Run 1 pipe diameter
7382	FC.FC1.ORIF DIAM INUSE	Run 1 orifice diameter in use
7383	FC.FC1.RX DPCUT VAL	Run 1 differential pressure cutoff
7384	FC.RUN 1 DPSOURCE	Run 1 differential pressure source
7385	FC.R1 MVTID DP	Run 1 MVT ID for differential pressure
7386	FC.FC1.RX DP BUF	Run 1 differential pressure value
7387	FC.FC1.OR FLOW RATE	Run 1 flow rate
7388	FC.FC1.RX_FRATE_ARCHUNITS	Run 1 flow rate units
7389	FC.FC1.OR_ENERGY_RATE	Run 1 energy rate
7390	FC.FC1.RX_ERATE_ARCHUNITS	Run 1 energy rate units
7391	FC.FC1.RX_ORIF_DIAM	Run 1 orifice diameter setting
7392	FC.FC1.RX_ORIF_UNITS	Run 1 orifice diameter units
7393	FC.FC1.RX_BETA	Run 1 beta ratio
7394	FC.FC1.OR_MINFLOWRATE	Run 1 minimum flow rate
7395	FC.FC1.OR_MAXFLOWRATE	Run 1 maximum flow rate
7396	FC.RUN_1_MAXFREQ	Run 1 maximum frequency
7397	FC.FC1.RX_LCUTOFF	Run 1 low frequency cutoff
7000	50 504 DV 4047 V540TOD	Run 1 AGA7 K factor (pulses/volume or
7398	FC.FC1.RX_AGA7_KFACTOR	volume/pulse)
7399	FC.FC1.IUDI_COUNT	Run 1 Counts from HSC
7400	FC.FC1.RX_PPS	Run 1 pulses per second (filtered frequency)
7401	FC.FC1.RX_AGA7_FACTOR	Run 1 AGA7 // feature used
7402	FC.FC1.RX_KFACTOR_USED	Run 1 AGA7 K factor used
7403	FC.FC1.OR_UCFLOWRATE	Run 1 uncorrected flow rate
7404	FC.FC1.RX_AA_CUTOFF	Run 1 AutoAdjust I/ factor Main Pater
7405	FC.AA_1.KM	Run 1 AutoAdjust K factor Main Rotor
7406	FC.AA_1.KS	Run 1 AutoAdjust K factor Sense Rotor
7407	FC.RUN_1_AA_MAXACF	Run 1 AutoAdjust a bor
7408	FC.AA_1.ABAR	Run 1 AutoAdjust doviation limit
7409	FC.FC1.RX_AA_DEVLIMIT	Run 1 AutoAdjust deviation limit Run 1 AutoAdjust delta counts from HSC to Main
7410	FC.AA_1.IUDI_MAIN_ROTOR	Rotor
7411	FC.AA_1.IUDI_SENS_ROTOR	Run 1 AutoAdjust delta counts from HSC to Sense Rotor
7412	FC.FC1.IR_AAVOLUME	Run 1 AutoAdjust adjusted volume into the Flow Computer FB

7413 FC.AA.1 DELTAABAR 7414 FC.FC1.RX AGA10 SOS Run 1 Speed of Sound calculated by AGA 10 Run 1 Speed of Sound percentage difference Petween calculated and Ultrasonic Run 1 Speed of Sound percentage difference Detween calculated and Ultrasonic Run 1 Speed of Sound percentage difference Detween calculated and Ultrasonic Run 1 Speed of Sound percentage difference Ilmit Run 1 cutoff value in seconds for low frequency PD meters Run 1 cutoff value in seconds for low frequency PD meters Run 1 differential pressure low-low alarm limits Run 1 differential pressure low-low alarm limits Run 1 differential pressure low-low alarm limits Run 1 differential pressure low-low alarm limits Run 1 differential pressure low-low alarm limits Run 1 differential pressure low-low alarm limits Run 1 differential pressure low-low alarm limits Run 1 differential pressure low-low alarm limits Run 1 differential pressure low-low alarm limits Run 1 static pressure low-low alarm limits Run 1 static pressure low-low alarm limits Run 1 static pressure low alarm limits Run 1 static pressure low alarm limits Run 1 static pressure low alarm limits Run 1 static pressure low alarm limits Run 1 static pressure low-low alarm limits Run 1 static pressure low-low alarm limits Run 1 static pressure ligh alarm limits Run 1 static pressure ligh alarm limits Run 1 static pressure ligh alarm limits Run 1 static pressure ligh alarm limits Run 1 static pressure ligh alarm limits Run 1 static pressure ligh alarm limits Run 1 static pressure ligh alarm limits Run 1 static pressure ligh alarm limits Run 1 static pressure ligh alarm limits Run 1 static pressure ligh alarm limits Run 1 static pressure ligh alarm limits Run 1 static pressure ligh alarm limits Run 1 static pressure ligh alarm limits Run 1 static pressure ligh alarm limits Run 1 static pressure input to the Flow Computer function block Run 1 static pressure current hour average Run 1 static pressure current hour average Run 1 static pressure input to the Flow Computer function block Run 1 static pres	Reg#	Variable	Description
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T429 FC.FC1.RX FTEMP HHAL Run 1 temperature high-high alarm limits			'
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7446 FC.FC1.SG_PH_AVG Run 1 specific gravity previous hour average	•		
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			Run 1 Nitrogen input to the Flow Computer
7447 FC.FC1.RX_N2_LIVE function block	7447	FC.FC1.RX_N2_LIVE	
7448 FC.FC1.N2_CH_AVG Run 1 Nitrogen current hour average	1		
7449 FC.FC1.N2_PH_AVG Run 1 Nitrogen previous hour average	7449	FC.FC1.N2_PH_AVG	
7450 FC.FC1.RX_CO2_LIVE Run 1 Carbon Dioxide (CO2) input to the Flow Computer function block	7450	FC.FC1.RX_CO2_LIVE	Computer function block
Run 1 Carbon Dioxide (CO2) current hour average	7451	FC.FC1.CO2_CH_AVG	average
7452 FC.FC1.CO2_PH_AVG Run 1 Carbon Dioxide (CO2) previous hour average	7452	FC.FC1.CO2_PH_AVG	average
Run 1 Methane (CH4) input to the Flow Computer function block	7453	FC.FC1.RX_CH4_LIVE	

Reg#	Variable	Description
7454	FC.FC1.CH4_CH_AVG	Run 1 Methane (CH4) current hour average
7455	FC.FC1.CH4_PH_AVG	Run 1 Methane (CH4) previous hour average
		Run 1 Ethane (C2) input to the Flow Computer
7456	FC.FC1.RX_C2_LIVE	function block
7457	FC.FC1.C2_CH_AVG	Run 1 Ethane (C2) current hour average
7458	FC.FC1.C2_PH_AVG	Run 1 Ethane (C2) previous hour average Run 1 Propane (C3) input to the Flow Computer
7459	FC.FC1.RX_C3_LIVE	function block
7460	FC.FC1.C3_CH_AVG	Run 1 Propane (C3) current hour average
7461	FC.FC1.C3_PH_AVG	Run 1 Propane (C3) previous hour average
7462	FC.FC1.RX IC4 LIVE	Run 1 I-Butane (I-C4) input to the Flow Computer function block
7463	FC.FC1.IC4 CH AVG	Run 1 I-Butane (I-C4) current hour average
7464	FC.FC1.IC4 PH AVG	Run 1 I-Butane (I-C4) previous hour average
		Run 1 N-Butane (N-C4) input to the Flow
7465	FC.FC1.RX_NC4_LIVE	Computer function block
7466	FC.FC1.NC4_CH_AVG	Run 1 N-Butane (N-C4) current hour average
7467	FC.FC1.NC4_PH_AVG	Run 1 N-Butane (N-C4) previous hour average
7468	FC.FC1.RX_IC5_LIVE	Run 1 heating value input to the Flow Computer function block
7469	FC.FC1.IC5_CH_AVG	Run 1 heating value current hour average
7470	FC.FC1.IC5_PH_AVG	Run 1 heating value previous hour average
7471	FC.FC1.RX_NC5_LIVE	Run 1 Pentane (CH5) input to the Flow Computer function block
7472	FC.FC1.NC5 CH AVG	Run 1 Pentane (CH5) current hour average
7473	FC.FC1.NC5 PH AVG	Run 1 Pentane (CH5) previous hour average
7474	FC.FC1.RX C6 LIVE	Run 1 Hexane (C6) input to the Flow Computer function block
7475	FC.FC1.C6 CH AVG	Run 1 Hexane (C6) current hour average
7476	FC.FC1.C6 PH AVG	Run 1 Hexane (C6) previous hour average
7477	FC.FC1.RX C7 LIVE	Run 1 Heptane (C7) input to the Flow Computer function block
7478	FC.FC1.C7 CH AVG	Run 1 Heptane (C7) current hour average
7479	FC.FC1.C7 PH AVG	Run 1 Heptane (C7) previous hour average
7480	FC.FC1.RX C8 LIVE	Run 1 Octane (C8) input to the Flow Computer function block
7481	FC.FC1.C8_CH_AVG	Run 1 Octane (C8) current hour average
7482	FC.FC1.C8_PH_AVG	Run 1 Octane (C8) previous hour average
7483	FC.FC1.RX C9 LIVE	Run 1 Nonane (C9) input to the Flow Computer function block
7484	FC.FC1.C9_CH_AVG	Run 1 Nonane (C9) current hour average
7485	FC.FC1.C9 PH AVG	Run 1 Nonane (C9) previous hour average
7486	FC.FC1.RX_C10_LIVE	Run 1 Decane (C10) input to the Flow Computer function block
7487	FC.FC1.C10 CH AVG	Run 1 Decane (C10) current hour average
7488	FC.FC1.C10 PH AVG	Run 1 Decane (C10) previous hour average
7489	FC.FC1.RX_H2O_PCT	Run 1 Water content (H2O) input to the Flow Computer function block
7469	FC.FC1.H2O CH AVG	Run 1 Water content (H2O) current hour average
1430	10.101.1120_011_AV0	Run 1 Water content (H2O) previous hour
7491	FC.FC1.H2O_PH_AVG	average Run 1 Hydrogen sulfide (H2S) input to the Flow
7492	FC.FC1.RX_H2S_PCT	Computer function block
7493	FC.FC1.H2S_CH_AVG	Run 1 Hydrogen sulfide (H2S) current hour average
7494	FC.FC1.H2S PH AVG	Run 1 Hydrogen sulfide (H2S) previous hour
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Reg#	Variable	Description
Regin	*undoic	average
		Run 1 Hydrogen (H2) input to the Flow Computer
7495	FC.FC1.RX_H2_PCT	function block
7496	FC.FC1.H2_CH_AVG	Run 1 Hydrogen (H2) current hour average
7497	FC.FC1.H2_PH_AVG	Run 1 Hydrogen (H2) previous hour average
7400	50 504 BV 00 BOT	Run 1 Carbon Monoxide (CO) input to the Flow
7498	FC.FC1.RX_CO_PCT	Computer function block Run 1 Carbon Monoxide (CO) current hour
7499	FC.FC1.CO CH AVG	average
		Run 1 Carbon Monoxide (CO) previous hour
7500	FC.FC1.CO_PH_AVG	average
7501	FC.FC1.RX O2 PCT	Run 1 Oxygen (O2) input to the Flow Computer function block
7502	FC.FC1.O2 CH AVG	Run 1 Oxygen (O2) current hour average
7503	FC.FC1.O2 PH AVG	Run 1 Oxygen (O2) previous hour average
7000	16.161.62_111_7	Run 1 Helium (H2) input to the Flow Computer
7504	FC.FC1.RX_HE_PCT	function block
7505	FC.FC1.HE_CH_AVG	Run 1 Helium (H2) current hour average
7506	FC.FC1.HE_PH_AVG	Run 1 Helium (H2) previous hour average
7507	FC.FC1.RX AR PCT	Run 1 Argon (AR) input to the Flow Computer function block
7507	FC.FC1.AR CH AVG	Run 1 Argon (AR) current hour average
7509	FC.FC1.AR PH AVG	Run 1 Argon (AR) previous hour average
7510	FC.FC2.RX CFG TYPE	Run 2 configuration type
7510	FC.RUN 2 STATION	Run 2 station assignment
7511	FC.RUN 2 DIRECTION	Run 2 direction
7513	FC.RUN 2 SPSOURCE	Run 2 static pressure source
7514	FC.R2 MVTID SP	Run 2 MVT ID for static pressure
7515	FC.FC2.RX SP BUF	Run 2 static pressure value
7516	FC.RUN 2 FTSOURCE	Run 2 temperature source
7517	FC.R2 MVTID FT	Run 2 MVT ID for temperature
7518	FC.FC2.RX FTEMP BUF	Run 2 temperature value
7519	FC.FC2.RX PIPE DIAM	Run 2 pipe diameter
7520	FC.FC2.ORIF DIAM INUSE	Run 2 orifice diameter in use
7521	FC.FC2.RX DPCUT VAL	Run 2 differential pressure cutoff
7522	FC.RUN_2_DPSOURCE	Run 2 differential pressure source
7523	FC.R2 MVTID DP	Run 2 MVT ID for differential pressure
7524	FC.FC2.RX_DP_BUF	Run 2 differential pressure value
7525	FC.FC2.OR FLOW RATE	Run 2 flow rate
7526	FC.FC2.RX FRATE ARCHUNITS	Run 2 flow rate units
7527	FC.FC2.OR ENERGY RATE	Run 2 energy rate
7528	FC.FC2.RX_ERATE_ARCHUNITS	Run 2 energy rate units
7529	FC.FC2.RX_ORIF_DIAM	Run 2 orifice diameter setting
7530	FC.FC2.RX_ORIF_UNITS	Run 2 orifice diameter units
7531	FC.FC2.RX_BETA	Run 2 beta ratio
7532	FC.FC2.OR_MINFLOWRATE	Run 2 minimum flow rate
7533	FC.FC2.OR_MAXFLOWRATE	Run 2 maximum flow rate
7534	FC.RUN_2_MAXFREQ	Run 2 maximum frequency
7535	FC.FC2.RX_LCUTOFF	Run 2 low frequency cutoff
	50 500 BV 4047 V5: 0707	Run 2 AGA7 K factor (pulses/volume or
7536	FC.FC2.RX_AGA7_KFACTOR	volume/pulse)
7537	FC.FC2.IUDI_COUNT	Run 2 Counts from HSC
7538	FC.FC2.RX_PPS	Run 2 pulses per second (filtered frequency)

Reg#	Variable	Description
7539	FC.FC2.RX AGA7 FACTOR	Run 2 AGA7 correction factor
7540	FC.FC2.RX KFACTOR USED	Run 2 AGA7 K factor used
7541	FC.FC2.OR UCFLOWRATE	Run 2 uncorrected flow rate
7542	FC.FC2.RX AA CUTOFF	Run 2 AutoAdjust low frequency cutoff
7543	FC.AA 2.KM	Run 2 AutoAdjust K factor Main Rotor
7544	FC.AA 2.KS	Run 2 AutoAdjust K factor Sense Rotor
7545	FC.RUN 2 AA MAXACF	Run 2 AutoAdjust maximum actual volume
7546	FC.AA 2.ABAR	Run 2 AutoAdjust a bar
7547	FC.FC2.RX AA DEVLIMIT	Run 2 AutoAdjust deviation limit
7548	FC.AA_2.IUDI_MAIN_ROTOR	Run 2 AutoAdjust delta counts from HSC to Main Rotor
75.40	FO AA OUUDI OFNO DOTOD	Run 2 AutoAdjust delta counts from HSC to
7549 7550	FC.AA_2.IUDI_SENS_ROTOR FC.FC2.IR AAVOLUME	Sense Rotor Run 2 AutoAdjust adjusted volume into the Flow Computer FB
7551	FC.AA 2 DELTAABAR	Run 2 AutoAdjust delta a bar
7552	FC.FC2.RX AGA10 SOS	Run 2 Speed of Sound calculated by AGA 10
7553	FC.FC2.RX_SOS_PCT_DIFF	Run 2 Speed of Sound percentage difference between calculated and Ultrasonic
7554	FC.FC2.RX_SOS_LIMIT	Run 2 Speed of Sound percentage difference limit
7555	FC.FC2.RX_SFREQ_DB	Run 2 cutoff value in seconds for low frequency PD meters
7556	FC.FC2.RX_DP_LLAL	Run 2 differential pressure low-low alarm limits
7557	FC.FC2.RX_DP_LAL	Run 2 differential pressure low alarm limits
7558	FC.FC2.RX_DP_HAL	Run 2 differential pressure high alarm limits
7559	FC.FC2.RX_DP_HHAL	Run 2 differential pressure high-high alarm limits
7560	FC.FC2.RX_SP_LLAL	Run 2 static pressure low-low alarm limits
7561	FC.FC2.RX_SP_LAL	Run 2 static pressure low alarm limits
7562	FC.FC2.RX_SP_HAL	Run 2 static pressure high alarm limits
7563	FC.FC2.RX_SP_HHAL	Run 2 static pressure high-high alarm limits
7564	FC.FC2.RX_FTEMP_LLAL	Run 2 temperature low-low alarm limits
7565	FC.FC2.RX_FTEMP_LAL	Run 2 temperature low alarm limits
7566	FC.FC2.RX_FTEMP_HAL	Run 2 temperature high alarm limits
7567	FC.FC2.RX_FTEMP_HHAL	Run 2 temperature high-high alarm limits
7568	FC.FC2.RX_BETA_HILIMIT	Run 2 beta ratio high alarm limits
7569	FC.FC2.RX_BETA_LOLIMIT	Run 2 beta ratio low alarm limits
7570	FC.FC2.RX_DP_INP	Run 2 differential pressure input to the Flow Computer function block
7571	FC.FC2.DP_CH_AVG	Run 2 differential pressure current hour average
7572	FC.FC2.DP_PH_AVG	Run 2 differential pressure previous hour average
7573	FC.FC2.RX_SP_INP	Run 2 static pressure input to the Flow Computer function block
7574	FC.FC2.SP_CH_AVG	Run 2 static pressure current hour average
7575	FC.FC2.SP_PH_AVG	Run 2 static pressure previous hour average
7576	FC.FC2.RX_FTEMP_INP	Run 2 temperature input to the Flow Computer function block
7577	FC.FC2.FTEMP_CH_AVG	Run 2 temperature current hour average
7578	FC.FC2.FTEMP_PH_AVG	Run 2 temperature previous hour average
7579	FC.FC2.RX_HTVAL_GC	Run 2 heating value input to the Flow Computer function block
7580	FC.FC2.HTVAL_CH_AVG	Run 2 heating value current hour average
7581	FC.FC2.HTVAL_PH_AVG	Run 2 heating value previous hour average

Reg#	Variable	Description
		Run 2 specific gravity input to the Flow
7582	FC.FC2.RX_GRAVITY_LIVE	Computer function block
7583	FC.FC2.SG_CH_AVG	Run 2 specific gravity current hour average
7584	FC.FC2.SG_PH_AVG	Run 2 specific gravity previous hour average
7585	FC.FC2.RX_N2_LIVE	Run 2 Nitrogen input to the Flow Computer function block
7586	FC.FC2.N2_CH_AVG	Run 2 Nitrogen current hour average
7587	FC.FC2.N2_PH_AVG	Run 2 Nitrogen previous hour average
7588	FC.FC2.RX_CO2_LIVE	Run 2 Carbon Dioxide (CO2) input to the Flow Computer function block
7589	FC.FC2.CO2_CH_AVG	Run 2 Carbon Dioxide (CO2) current hour average Run 2 Carbon Dioxide (CO2) previous hour
7590	FC.FC2.CO2_PH_AVG	average Run 2 Methane (CH4) input to the Flow
7591	FC.FC2.RX_CH4_LIVE	Computer function block
7592	FC.FC2.CH4_CH_AVG	Run 2 Methane (CH4) current hour average
7593 7594	FC.FC2.CH4_PH_AVG	Run 2 Methane (CH4) previous hour average Run 2 Ethane (C2) input to the Flow Computer function block
759 4 7595	FC.FC2.RX_C2_LIVE FC.FC2.C2_CH_AVG	Run 2 Ethane (C2) current hour average
7596	FC.FC2.C2 PH AVG	
7390	FC.FCZ.CZ_FH_AVG	Run 2 Ethane (C2) previous hour average Run 2 Propane (C3) input to the Flow Computer
7597	FC.FC2.RX_C3_LIVE	function block
7598	FC.FC2.C3_CH_AVG	Run 2 Propane (C3) current hour average
7599	FC.FC2.C3_PH_AVG	Run 2 Propane (C3) previous hour average
7600	FC.FC2.RX_IC4_LIVE	Run 2 I-Butane (I-C4) input to the Flow Computer function block
7601	FC.FC2.IC4_CH_AVG	Run 2 I-Butane (I-C4) current hour average
7602	FC.FC2.IC4_PH_AVG	Run 2 I-Butane (I-C4) previous hour average Run 2 N-Butane (N-C4) input to the Flow
7603	FC.FC2.RX_NC4_LIVE	Computer function block
7604	FC.FC2.NC4_CH_AVG	Run 2 N-Butane (N-C4) current hour average
7605	FC.FC2.NC4_PH_AVG	Run 2 N-Butane (N-C4) previous hour average
7606	FC.FC2.RX_IC5_LIVE	Run 2 heating value input to the Flow Computer function block
7607	FC.FC2.IC5_CH_AVG	Run 2 heating value current hour average
7608	FC.FC2.IC5_PH_AVG	Run 2 heating value previous hour average
7609	FC.FC2.RX_NC5_LIVE	Run 2 Pentane (CH5) input to the Flow Computer function block
7610	FC.FC2.NC5_CH_AVG	Run 2 Pentane (CH5) current hour average
7611	FC.FC2.NC5_PH_AVG	Run 2 Pentane (CH5) previous hour average
7612	FC.FC2.RX_C6_LIVE	Run 2 Hexane (C6) input to the Flow Computer function block
7613	FC.FC2.C6_CH_AVG	Run 2 Hexane (C6) current hour average
7614	FC.FC2.C6_PH_AVG	Run 2 Hexane (C6) previous hour average
7615	FC.FC2.RX_C7_LIVE	Run 2 Heptane (C7) input to the Flow Computer function block
7616	FC.FC2.C7_CH_AVG	Run 2 Heptane (C7) current hour average
7617	FC.FC2.C7_PH_AVG	Run 2 Heptane (C7) previous hour average
7618	FC.FC2.RX_C8_LIVE	Run 2 Octane (C8) input to the Flow Computer function block
7619	FC.FC2.C8_CH_AVG	Run 2 Octane (C8) current hour average
7620	FC.FC2.C8_PH_AVG	Run 2 Octane (C8) previous hour average
7621	FC.FC2.RX_C9_LIVE	Run 2 Nonane (C9) input to the Flow Computer function block

Reg#	Variable	Description
7622	FC.FC2.C9 CH AVG	Run 2 Nonane (C9) current hour average
7623	FC.FC2.C9 PH AVG	Run 2 Nonane (C9) previous hour average
		Run 2 Decane (C10) input to the Flow Computer
7624	FC.FC2.RX_C10_LIVE	function block
7625	FC.FC2.C10_CH_AVG	Run 2 Decane (C10) current hour average
7626	FC.FC2.C10_PH_AVG	Run 2 Decane (C10) previous hour average
7627	FC.FC2.RX_H2O_PCT	Run 2 Water content (H2O) input to the Flow Computer function block
7628	FC.FC2.H2O_CH_AVG	Run 2 Water content (H2O) current hour average
7629	FC.FC2.H2O_PH_AVG	Run 2 Water content (H2O) previous hour average
7630	FC.FC2.RX_H2S_PCT	Run 2 Hydrogen sulfide (H2S) input to the Flow Computer function block
7631	FC.FC2.H2S_CH_AVG	Run 2 Hydrogen sulfide (H2S) current hour average
7632	FC.FC2.H2S_PH_AVG	Run 2 Hydrogen sulfide (H2S) previous hour average
7633	FC.FC2.RX_H2_PCT	Run 2 Hydrogen (H2) input to the Flow Computer function block
7634	FC.FC2.H2_CH_AVG	Run 2 Hydrogen (H2) current hour average
7635	FC.FC2.H2_PH_AVG	Run 2 Hydrogen (H2) previous hour average
7636	FC.FC2.RX_CO_PCT	Run 2 Carbon Monoxide (CO) input to the Flow Computer function block
7637	FC.FC2.CO_CH_AVG	Run 2 Carbon Monoxide (CO) current hour average
7638	FC FC2 CO DH AVC	Run 2 Carbon Monoxide (CO) previous hour
7639	FC.FC2.CO_PH_AVG FC.FC2.RX O2 PCT	average Run 2 Oxygen (O2) input to the Flow Computer function block
7640	FC.FC2.O2 CH AVG	Run 2 Oxygen (O2) current hour average
7641	FC.FC2.O2 PH AVG	Run 2 Oxygen (O2) previous hour average
7642	FC.FC2.RX HE PCT	Run 2 Helium (H2) input to the Flow Computer function block
7643	FC.FC2.HE CH AVG	Run 2 Helium (H2) current hour average
7644	FC.FC2.HE PH AVG	Run 2 Helium (H2) previous hour average
		Run 2 Argon (AR) input to the Flow Computer
7645	FC.FC2.RX_AR_PCT	function block
	FC.FC2.AR_CH_AVG	Run 2 Argon (AR) current hour average
7647	FC.FC2.AR_PH_AVG	Run 2 Argon (AR) previous hour average
7648	FC.FC3.RX_CFG_TYPE	Run 3 configuration type
7649	FC.RUN_3_STATION	Run 3 station assignment
7650	FC.RUN_3_DIRECTION	Run 3 direction
7651	FC.RUN_3_SPSOURCE	Run 3 static pressure source
7652	FC.R3_MVTID_SP	Run 3 MVT ID for static pressure
7653	FC.FC3.RX_SP_BUF	Run 3 static pressure value
7654	FC.RUN_3_FTSOURCE	Run 3 temperature source
7655	FC.R3_MVTID_FT	Run 3 MVT ID for temperature
7656	FC.FC3.RX_FTEMP_BUF	Run 3 temperature value
7657	FC.FC3.RX_PIPE_DIAM	Run 3 pipe diameter
7658	FC.FC3.ORIF_DIAM_INUSE	Run 3 orifice diameter in use
7659	FC.FC3.RX_DPCUT_VAL	Run 3 differential pressure cutoff
7660	FC.RUN_3_DPSOURCE	Run 3 differential pressure source
7661	FC.R3_MVTID_DP	Run 3 MVT ID for differential pressure
7662	FC.FC3.RX_DP_BUF	Run 3 differential pressure value
7663	FC.FC3.OR_FLOW_RATE	Run 3 flow rate

Reg#	Variable	Description
7664	FC.FC3.RX FRATE ARCHUNITS	Run 3 flow rate units
7665	FC.FC3.OR ENERGY RATE	Run 3 energy rate
7666	FC.FC3.RX ERATE ARCHUNITS	Run 3 energy rate units
7667	FC.FC3.RX ORIF DIAM	Run 3 orifice diameter setting
7668	FC.FC3.RX ORIF UNITS	Run 3 orifice diameter units
7669	FC.FC3.RX BETA	Run 3 beta ratio
7670	FC.FC3.OR MINFLOWRATE	Run 3 minimum flow rate
7671	FC.FC3.OR MAXFLOWRATE	Run 3 maximum flow rate
7672	FC.RUN 3 MAXFREQ	Run 3 maximum frequency
7673	FC.FC3.RX LCUTOFF	Run 3 low frequency cutoff
		Run 3 AGA7 K factor (pulses/volume or
7674	FC.FC3.RX_AGA7_KFACTOR	volume/pulse) Run 3 Counts from HSC
7675	FC.FC3.IUDI_COUNT	
7676	FC.FC3.RX_PPS	Run 3 pulses per second (filtered frequency)
7677	FC.FC3.RX_AGA7_FACTOR	Run 3 AGA7 correction factor
7678	FC.FC3.RX_KFACTOR_USED	Run 3 AGA7 K factor used
7679	FC.FC3.OR_UCFLOWRATE	Run 3 uncorrected flow rate
7680	FC.FC3.RX_AA_CUTOFF	Run 3 AutoAdjust low frequency cutoff
7681	FC.AA_3.KM	Run 3 AutoAdjust K factor Main Rotor
7682	FC.AA_3.KS	Run 3 AutoAdjust K factor Sense Rotor
7683	FC.RUN_3_AA_MAXACF	Run 3 AutoAdjust maximum actual volume
7684	FC.AA_3.ABAR	Run 3 AutoAdjust a bar
7685	FC.FC3.RX_AA_DEVLIMIT	Run 3 AutoAdjust deviation limit
7686	FC.AA_3.IUDI_MAIN_ROTOR	Run 3 AutoAdjust delta counts from HSC to Main Rotor
7687	FC.AA_3.IUDI_SENS_ROTOR	Run 3 AutoAdjust delta counts from HSC to Sense Rotor
7600	EC EC3 ID A AVOI LIME	Run 3 AutoAdjust adjusted volume into the Flow
7688	FC.FC3.IR_AAVOLUME	Computer FB Run 3 AutoAdjust delta a bar
7689 7690	FC.AA 3 DELTAABAR	Run 3 Speed of Sound calculated by AGA 10
7090	FC.FC3.RX_AGA10_SOS	Run 3 Speed of Sound percentage difference
7691	FC.FC3.RX_SOS_PCT_DIFF	between calculated and Ultrasonic
7692	FC.FC3.RX_SOS_LIMIT	Run 3 Speed of Sound percentage difference limit
7693	FC.FC3.RX_SFREQ_DB	Run 3 cutoff value in seconds for low frequency PD meters
7694	FC.FC3.RX_DP_LLAL	Run 3 differential pressure low-low alarm limits
7695	FC.FC3.RX_DP_LAL	Run 3 differential pressure low alarm limits
7696	FC.FC3.RX_DP_HAL	Run 3 differential pressure high alarm limits
7697	FC.FC3.RX_DP_HHAL	Run 3 differential pressure high-high alarm limits
7698	FC.FC3.RX_SP_LLAL	Run 3 static pressure low-low alarm limits
7699	FC.FC3.RX_SP_LAL	Run 3 static pressure low alarm limits
7700	FC.FC3.RX_SP_HAL	Run 3 static pressure high alarm limits
7701	FC.FC3.RX SP HHAL	Run 3 static pressure high-high alarm limits
7702	FC.FC3.RX_FTEMP_LLAL	Run 3 temperature low-low alarm limits
7703	FC.FC3.RX FTEMP LAL	Run 3 temperature low alarm limits
7704	FC.FC3.RX_FTEMP_HAL	Run 3 temperature high alarm limits
7705	FC.FC3.RX_FTEMP_HHAL	Run 3 temperature high-high alarm limits
7706	FC.FC3.RX_BETA_HILIMIT	Run 3 beta ratio high alarm limits
7707	FC.FC3.RX BETA LOLIMIT	Run 3 beta ratio low alarm limits
	<u> </u>	Run 3 differential pressure input to the Flow
7708	FC.FC3.RX_DP_INP	Computer function block

Reg#	Variable	Description
7709	FC.FC3.DP CH AVG	Run 3 differential pressure current hour average
7710	FC.FC3.DP_PH_AVG	Run 3 differential pressure previous hour average
7711	FC.FC3.RX_SP_INP	Run 3 static pressure input to the Flow Computer function block
7712	FC.FC3.SP_CH_AVG	Run 3 static pressure current hour average
7713	FC.FC3.SP PH AVG	Run 3 static pressure previous hour average
7714	FC.FC3.RX FTEMP INP	Run 3 temperature input to the Flow Computer function block
7715	FC.FC3.FTEMP CH AVG	Run 3 temperature current hour average
7716	FC.FC3.FTEMP PH AVG	Run 3 temperature previous hour average
7717	FC.FC3.RX_HTVAL_GC	Run 3 heating value input to the Flow Computer function block
7718	FC.FC3.HTVAL CH AVG	Run 3 heating value current hour average
7719	FC.FC3.HTVAL PH AVG	Run 3 heating value previous hour average
7720	FC.FC3.RX_GRAVITY_LIVE	Run 3 specific gravity input to the Flow Computer function block
7721	FC.FC3.SG_CH_AVG	Run 3 specific gravity current hour average
7722	FC.FC3.SG_PH_AVG	Run 3 specific gravity previous hour average
7723	FC.FC3.RX N2 LIVE	Run 3 Nitrogen input to the Flow Computer function block
7724	FC.FC3.N2 CH AVG	Run 3 Nitrogen current hour average
7725	FC.FC3.N2_PH_AVG	Run 3 Nitrogen previous hour average
7726	FC.FC3.RX_CO2_LIVE	Run 3 Carbon Dioxide (CO2) input to the Flow Computer function block
7727	FC.FC3.CO2_CH_AVG	Run 3 Carbon Dioxide (CO2) current hour average
7728	FC.FC3.CO2_PH_AVG	Run 3 Carbon Dioxide (CO2) previous hour average
7729	FC.FC3.RX_CH4_LIVE	Run 3 Methane (CH4) input to the Flow Computer function block
7730	FC.FC3.CH4_CH_AVG	Run 3 Methane (CH4) current hour average
7731	FC.FC3.CH4_PH_AVG	Run 3 Methane (CH4) previous hour average
7732	FC.FC3.RX_C2_LIVE	Run 3 Ethane (C2) input to the Flow Computer function block
7733	FC.FC3.C2_CH_AVG	Run 3 Ethane (C2) current hour average
7734	FC.FC3.C2_PH_AVG	Run 3 Ethane (C2) previous hour average
7735	FC.FC3.RX_C3_LIVE	Run 3 Propane (C3) input to the Flow Computer function block
7736	FC.FC3.C3_CH_AVG	Run 3 Propane (C3) current hour average
7737	FC.FC3.C3_PH_AVG	Run 3 Propane (C3) previous hour average Run 3 I-Butane (I-C4) input to the Flow Computer
7738	FC.FC3.RX_IC4_LIVE	function block
7739	FC.FC3.IC4_CH_AVG	Run 3 I-Butane (I-C4) current hour average
7740	FC.FC3.IC4 PH AVG	Run 3 I-Butane (I-C4) previous hour average
7741	FC.FC3.RX_NC4_LIVE	Run 3 N-Butane (N-C4) input to the Flow Computer function block
7742	FC.FC3.NC4 CH AVG	Run 3 N-Butane (N-C4) current hour average
7743	FC.FC3.NC4 PH AVG	Run 3 N-Butane (N-C4) previous hour average
7744	FC.FC3.RX_IC5_LIVE	Run 3 heating value input to the Flow Computer function block
7745	FC.FC3.IC5 CH AVG	Run 3 heating value current hour average
7746	FC.FC3.IC5 PH AVG	Run 3 heating value previous hour average
7747	FC.FC3.RX_NC5_LIVE	Run 3 Pentane (CH5) input to the Flow Computer function block
7748	FC.FC3.NC5 CH AVG	Run 3 Pentane (CH5) current hour average
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Reg#	Variable	Description
7749	FC.FC3.NC5 PH AVG	Run 3 Pentane (CH5) previous hour average
		Run 3 Hexane (C6) input to the Flow Computer
7750	FC.FC3.RX_C6_LIVE	function block
7751	FC.FC3.C6_CH_AVG	Run 3 Hexane (C6) current hour average
7752	FC.FC3.C6_PH_AVG	Run 3 Hexane (C6) previous hour average
7753	FC.FC3.RX_C7_LIVE	Run 3 Heptane (C7) input to the Flow Computer function block
7754	FC.FC3.C7_CH_AVG	Run 3 Heptane (C7) current hour average
7755	FC.FC3.C7_PH_AVG	Run 3 Heptane (C7) previous hour average
7756	FC.FC3.RX_C8_LIVE	Run 3 Octane (C8) input to the Flow Computer function block
7757	FC.FC3.C8_CH_AVG	Run 3 Octane (C8) current hour average
7758	FC.FC3.C8_PH_AVG	Run 3 Octane (C8) previous hour average
7759	FC.FC3.RX_C9_LIVE	Run 3 Nonane (C9) input to the Flow Computer function block
7760	FC.FC3.C9_CH_AVG	Run 3 Nonane (C9) current hour average
7761	FC.FC3.C9_PH_AVG	Run 3 Nonane (C9) previous hour average
7762	FC.FC3.RX_C10_LIVE	Run 3 Decane (C10) input to the Flow Computer function block
7763	FC.FC3.C10_CH_AVG	Run 3 Decane (C10) current hour average
7764	FC.FC3.C10_PH_AVG	Run 3 Decane (C10) previous hour average
		Run 3 Water content (H2O) input to the Flow
7765	FC.FC3.RX_H2O_PCT	Computer function block
7766	FC.FC3.H2O_CH_AVG	Run 3 Water content (H2O) current hour average
7767	FC.FC3.H2O_PH_AVG	Run 3 Water content (H2O) previous hour average
7768	FC.FC3.RX_H2S_PCT	Run 3 Hydrogen sulfide (H2S) input to the Flow Computer function block
7769	FC.FC3.H2S_CH_AVG	Run 3 Hydrogen sulfide (H2S) current hour average Run 3 Hydrogen sulfide (H2S) previous hour
7770	FC.FC3.H2S_PH_AVG	average Run 3 Hydrogen (H2) input to the Flow Computer
7771	FC.FC3.RX_H2_PCT	function block
7772	FC.FC3.H2_CH_AVG	Run 3 Hydrogen (H2) current hour average
7773	FC.FC3.H2_PH_AVG	Run 3 Hydrogen (H2) previous hour average
7774	FC.FC3.RX_CO_PCT	Run 3 Carbon Monoxide (CO) input to the Flow Computer function block
7775	FC.FC3.CO_CH_AVG	Run 3 Carbon Monoxide (CO) current hour average
7776	FC.FC3.CO_PH_AVG	Run 3 Carbon Monoxide (CO) previous hour average
7777	FC.FC3.RX_O2_PCT	Run 3 Oxygen (O2) input to the Flow Computer function block
7778	FC.FC3.O2_CH_AVG	Run 3 Oxygen (O2) current hour average
7779	FC.FC3.O2_PH_AVG	Run 3 Oxygen (O2) previous hour average
7780	FC.FC3.RX_HE_PCT	Run 3 Helium (H2) input to the Flow Computer function block
7781	FC.FC3.HE_CH_AVG	Run 3 Helium (H2) current hour average
7782	FC.FC3.HE_PH_AVG	Run 3 Helium (H2) previous hour average
7783	FC.FC3.RX_AR_PCT	Run 3 Argon (AR) input to the Flow Computer function block
7784	FC.FC3.AR_CH_AVG	Run 3 Argon (AR) current hour average
7785	FC.FC3.AR_PH_AVG	Run 3 Argon (AR) previous hour average
7786	FC.FC4.RX_CFG_TYPE	Run 4 configuration type
7787	FC.RUN_4_STATION	Run 4 station assignment

Reg#	Variable	Description
7788	FC.RUN 4 DIRECTION	Run 4 direction
7789	FC.RUN_4_SPSOURCE	Run 4 static pressure source
7790	FC.R4 MVTID SP	Run 4 MVT ID for static pressure
7791	FC.FC4.RX SP BUF	Run 4 static pressure value
7792	FC.RUN 4 FTSOURCE	Run 4 temperature source
7793	FC.R4 MVTID FT	Run 4 MVT ID for temperature
7794	FC.FC4.RX FTEMP BUF	Run 4 temperature value
7795	FC.FC4.RX PIPE DIAM	Run 4 pipe diameter
7796	FC.FC4.ORIF_DIAM_INUSE	Run 4 orifice diameter in use
7797	FC.FC4.RX DPCUT VAL	Run 4 differential pressure cutoff
7798	FC.RUN 4 DPSOURCE	Run 4 differential pressure source
7799	FC.R4 MVTID DP	Run 4 MVT ID for differential pressure
7800	FC.FC4.RX DP BUF	Run 4 differential pressure value
7801	FC.FC4.OR FLOW RATE	Run 4 flow rate
7802	FC.FC4.RX FRATE ARCHUNITS	Run 4 flow rate units
7803	FC.FC4.OR ENERGY RATE	Run 4 energy rate
7804	FC.FC4.RX ERATE ARCHUNITS	Run 4 energy rate units
7805	FC.FC4.RX ORIF DIAM	Run 4 orifice diameter setting
7806	FC.FC4.RX ORIF UNITS	Run 4 orifice diameter units
7807	FC.FC4.RX BETA	Run 4 beta ratio
7808	FC.FC4.OR MINFLOWRATE	Run 4 minimum flow rate
7809	FC.FC4.OR MAXFLOWRATE	Run 4 maximum flow rate
7810	FC.RUN 4 MAXFREQ	Run 4 maximum frequency
7811	FC.FC4.RX LCUTOFF	Run 4 low frequency cutoff
		Run 4 AGA7 K factor (pulses/volume or
7812	FC.FC4.RX_AGA7_KFACTOR	volume/pulse)
7813	FC.FC4.IUDI_COUNT	Run 4 Counts from HSC
7814	FC.FC4.RX_PPS	Run 4 pulses per second (filtered frequency)
7815	FC.FC4.RX_AGA7_FACTOR	Run 4 AGA7 correction factor
7816	FC.FC4.RX_KFACTOR_USED	Run 4 AGA7 K factor used
7817	FC.FC4.OR_UCFLOWRATE	Run 4 uncorrected flow rate
7818	FC.FC4.RX_AA_CUTOFF	Run 4 AutoAdjust low frequency cutoff
7819	FC.AA_4.KM	Run 4 AutoAdjust K factor Main Rotor
7820	FC.AA 4.KS	Run 4 AutoAdjust K factor Sense Rotor
7821	FC.RUN_4_AA_MAXACF	Run 4 AutoAdjust maximum actual volume
7822	FC.AA_4.ABAR	Run 4 AutoAdjust a bar
7823	FC.FC4.RX_AA_DEVLIMIT	Run 4 AutoAdjust deviation limit Run 4 AutoAdjust delta counts from HSC to Main
7824	FC.AA 4.IUDI MAIN ROTOR	Rotor
		Run 4 AutoAdjust delta counts from HSC to
7825	FC.AA_4.IUDI_SENS_ROTOR	Sense Rotor
7826	FC.FC4.IR_AAVOLUME	Run 4 AutoAdjust adjusted volume into the Flow Computer FB
7827	FC.AA_4_DELTAABAR	Run 4 AutoAdjust delta a bar
7828	FC.FC4.RX_AGA10_SOS	Run 4 Speed of Sound calculated by AGA 10
7829	FC.FC4.RX_SOS_PCT_DIFF	Run 4 Speed of Sound percentage difference between calculated and Ultrasonic
7830	FC.FC4.RX_SOS_LIMIT	Run 4 Speed of Sound percentage difference limit
7831	FC.FC4.RX_SFREQ_DB	Run 4 cutoff value in seconds for low frequency PD meters
7832	FC.FC4.RX DP LLAL	Run 4 differential pressure low-low alarm limits
1002	1 0.1 0T.1 V_DI _LDI\L	Train + unforting prossure low-low dialini lillills

Reg#	Variable	Description
7833	FC.FC4.RX DP LAL	Run 4 differential pressure low alarm limits
7834	FC.FC4.RX DP HAL	Run 4 differential pressure high alarm limits
7835	FC.FC4.RX DP HHAL	Run 4 differential pressure high-high alarm limits
7836	FC.FC4.RX SP LLAL	Run 4 static pressure low-low alarm limits
7837	FC.FC4.RX SP LAL	Run 4 static pressure low alarm limits
7838	FC.FC4.RX SP HAL	Run 4 static pressure high alarm limits
7839	FC.FC4.RX_SP_HHAL	Run 4 static pressure high-high alarm limits
7840	FC.FC4.RX_FTEMP_LLAL	Run 4 temperature low-low alarm limits
7841	FC.FC4.RX_FTEMP_LAL	Run 4 temperature low alarm limits
7842	FC.FC4.RX_FTEMP_HAL	Run 4 temperature high alarm limits
7843	FC.FC4.RX_FTEMP_HHAL	Run 4 temperature high-high alarm limits
7844	FC.FC4.RX_BETA_HILIMIT	Run 4 beta ratio high alarm limits
7845	FC.FC4.RX_BETA_LOLIMIT	Run 4 beta ratio low alarm limits
7846	FC.FC4.RX_DP_INP	Run 4 differential pressure input to the Flow Computer function block
7847	FC.FC4.DP_CH_AVG	Run 4 differential pressure current hour average
7848	FC.FC4.DP_PH_AVG	Run 4 differential pressure previous hour average
70.40	FO FOA DV CD IND	Run 4 static pressure input to the Flow Computer
7849	FC.FC4.RX_SP_INP	function block
7850	FC.FC4.SP_CH_AVG	Run 4 static pressure current hour average
7851	FC.FC4.SP_PH_AVG	Run 4 static pressure previous hour average Run 4 temperature input to the Flow Computer
7852	FC.FC4.RX_FTEMP_INP	function block
7853	FC.FC4.FTEMP_CH_AVG	Run 4 temperature current hour average
7854	FC.FC4.FTEMP_PH_AVG	Run 4 temperature previous hour average Run 4 heating value input to the Flow Computer
7855	FC.FC4.RX HTVAL GC	function block
7856	FC.FC4.HTVAL CH AVG	Run 4 heating value current hour average
7857	FC.FC4.HTVAL PH AVG	Run 4 heating value previous hour average
7050	50 504 DV 0DAVITV 1 1/5	Run 4 specific gravity input to the Flow
7858	FC.FC4.RX_GRAVITY_LIVE	Computer function block
7859	FC.FC4.SG_CH_AVG	Run 4 specific gravity current hour average
7860	FC.FC4.SG_PH_AVG	Run 4 specific gravity previous hour average Run 4 Nitrogen input to the Flow Computer
7861	FC.FC4.RX_N2_LIVE	function block
7862	FC.FC4.N2_CH_AVG	Run 4 Nitrogen current hour average
7863	FC.FC4.N2_PH_AVG	Run 4 Nitrogen previous hour average
7064	FC.FC4.RX CO2 LIVE	Run 4 Carbon Dioxide (CO2) input to the Flow Computer function block
7864	FC.FC4.RX_CO2_LIVE	Run 4 Carbon Dioxide (CO2) current hour
7865	FC.FC4.CO2_CH_AVG	average
7000		Run 4 Carbon Dioxide (CO2) previous hour
7866	FC.FC4.CO2_PH_AVG	average Run 4 Methane (CH4) input to the Flow
7867	FC.FC4.RX_CH4_LIVE	Computer function block
7868	FC.FC4.CH4_CH_AVG	Run 4 Methane (CH4) current hour average
7869	FC.FC4.CH4_PH_AVG	Run 4 Methane (CH4) previous hour average
7870	FC.FC4.RX_C2_LIVE	Run 4 Ethane (C2) input to the Flow Computer function block
7871	FC.FC4.C2_CH_AVG	Run 4 Ethane (C2) current hour average
7872	FC.FC4.C2_PH_AVG	Run 4 Ethane (C2) previous hour average
		Run 4 Propane (C3) input to the Flow Computer
7873	FC.FC4.RX_C3_LIVE	function block
7874	FC.FC4.C3_CH_AVG	Run 4 Propane (C3) current hour average

Run 4 Propane (C3) previous hour average Run 4 Flotane (F-C4) input to the Flow Comput function block Run 4 Flotane (F-C4) current hour average Run 4 Flotane (F-C4) current hour average Run 4 Flotane (F-C4) current hour average Run 4 Flotane (F-C4) current hour average Run 4 Flotane (F-C4) current hour average Run 4 Flotane (F-C4) current hour average Run 4 Flotane (F-C4) current hour average Run 4 Flotane (F-C4) current hour average Run 4 Flotane (F-C4) current hour average Run 4 Flotane (F-C4) current hour average Run 4 Flotane (F-C4) current hour average Run 4 Flotane (F-C4) current hour average Run 4 Flotane (F-C4) current hour average Run 4 Flotane (F-C4) current hour average Run 4 Flotane (F-C4) current hour average Run 4 Flotane (F-C4) current hour average Run 4 Flotane (F-C4) previous hour average Run 4 Flotane (F-C4) current hour average R	Reg#	Variable	Description
Run 4 I-Butane (I-C4) input to the Flow Comput function block			
Run 4 I-Butane (I-C4) current hour average			Run 4 I-Butane (I-C4) input to the Flow Computer
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Run 4 N-Butane (N-C4) input to the Flow Computer function block	7877	FC.FC4.IC4_CH_AVG	Run 4 I-Butane (I-C4) current hour average
7879 FC.FC4.RX NC4 LIVE Computer function block 7880 FC.FC4.NC4 CH AVG Run 4 N-Butane (N-C4) previous hour average 7881 FC.FC4.NC4 PH AVG Run 4 N-Butane (N-C4) previous hour average 7882 FC.FC4.RX IC5 LIVE function block 7883 FC.FC4.RX IC5 LIVE 7884 FC.FC4.RX IC5 LIVE 7885 FC.FC4.IC5 CH AVG Run 4 heating value current hour average 8 Run 4 heating value previous hour average 8 Run 4 heating value previous hour average 8 Run 4 heating value previous hour average 8 Run 4 heating value previous hour average 8 Run 4 Pentane (CH5) input to the Flow Compute function block 7 Run 4 pentane (CH5) previous hour average 7 Run 4 Pentane (CH5) previous hour average 8 Run 4 Pentane (CH5) previous hour average 8 Run 4 Pentane (CH5) previous hour average 8 Run 4 Pentane (CH5) previous hour average 8 Run 4 Pentane (CH5) previous hour average 8 Run 4 Pentane (CH5) previous hour average 8 Run 4 Pentane (CH5) previous hour average 8 Run 4 Pentane (CH5) previous hour average 8 Run 4 Pentane (CH5) previous hour average 8 Run 4 Pentane (CH5) previous hour average 9 Run 4 Pentane (CH5) previous hour average 9 Run 4 Pentane (CH5) previous hour average 9 Run 4 Hexane (CH5) previous hour average 9 Run 4 Hexane (CH5) previous hour average 9 Run 4 Hexane (CH5) previous hour average 9 Run 4 Heptane (CT7) previous hour average 9 Run 4 Heptane (CT7) previous hour average 9 Run 4 Heptane (CT7) previous hour average 9 Run 4 Heptane (CT7) previous hour average 9 Run 4 Octane (CE8) input to the Flow Computer function block 9 Run 4 Octane (CE8) previous hour average 9 Run 4 Octane (CE8) previous hour average 9 Run 4 Octane (CE8) previous hour average 9 Run 4 Nonane (CE9) previous hour average 9 Run 4 Nonane (CE9) previous hour average 9 Run 4 Nonane (CE9) previous hour average 9 Run 4 Nonane (CE9) previous hour average 9 Run 4 Nonane (CE9) previous hour average 9 Run 4 Nonane (CE9) previous hour average 9 Run 4 Nonane (CE9) previous hour average 9 Run 4 Nonane (CE9) previous hour average 9 Run 4 Nonane (CE9) previous hour average 9 Run 4 Nonane (CE	7878	FC.FC4.IC4_PH_AVG	
FC.FC4.NC4 PH AVG	7879	FC.FC4.RX_NC4_LIVE	
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7910 FC.FC4.H2_CH_AVG Run 4 Hydrogen (H2) current hour average 7911 FC.FC4.H2 PH AVG Run 4 Hydrogen (H2) previous hour average Run 4 Carbon Monoxide (CO) input to the Flow Computer function block			Run 4 Hydrogen (H2) input to the Flow Computer
7911 FC.FC4.H2 PH AVG Run 4 Hydrogen (H2) previous hour average Run 4 Carbon Monoxide (CO) input to the Flow Computer function block			
Run 4 Carbon Monoxide (CO) input to the Flow Computer function block			
			Run 4 Carbon Monoxide (CO) input to the Flow
7913 FC.FC4.CO_CH_AVG average			Run 4 Carbon Monoxide (CO) current hour

Fig. F.C.	Reg#	Variable	Description
FC.FC4.RQ DPL AVG	1₹eg#	Variable	
FCFC4 RX O2 PCT	7914	FC.FC4.CO_PH_AVG	average
FC.FC4.02 CH AVG	7915	FC.FC4.RX O2 PCT	
FC.FC4.02 PH.AVG			
Run 4 Helium (H2) input to the Flow Computer function block Run 4 Helium (H2) current hour average			
FC,FC4.HE_CH_AVG			
FC.FC4.HE_PH_AVG Run 4 Argon (AR) input to the Flow Computer (Inuction block Argon (AR) input to the Flow Computer (Inuction block Argon (AR) input to the Flow Computer (Inuction block Argon (AR) input to the Flow Computer (Inuction block Argon (AR) Computer (Inuction block Argon (AR) Computer (Inuction block Argon (AR) Computer (Inuction block Argon (AR) Computer (Inuction block Argon (AR) Computer (Inuction block Argon (AR) Computer (Inuction block Argon (AR) Computer (Inuction block Argon (AR) Computer (Inuction block Argon (AR) Computer (Inuction block Argon (AR) Computer (Inuction block Argon (AR) Computer (Inuction block Argon (AR) Computer (Inuction block Argon (AR) Computer (Inuction block Argon (AR) Computer (Inuction block Argon (Inuction block Argo	7918	FC.FC4.RX_HE_PCT	function block
Run 4 Argon (AR) input to the Flow Computer function block 7922 FC.FC4.AR CH. AVG Run 4 Argon (AR) current hour average 7923 FC.FC4.AR PH. AVG Run 4 Argon (AR) current hour average 7924 FC.FC4.RR PH. AVG Run 4 Argon (AR) current hour average 7924 FC.FC4.RR PH. AVG Run 4 Argon (AR) previous hour average 7924 FC.FC4.RR PH. AVG Run 4 Argon (AR) previous hour average 7924 FC.FC4.RR PH. AVG Run 5 Run 5 station assignment 7926 FC.RUN 5. STATION Run 5 station assignment 7926 FC.RUN 5. STATION Run 5 station assignment 7927 FC.RUN 5. SPSOURCE Run 5 statio pressure source 7927 FC.RUN 5. SPSOURCE Run 5 MVTID SP Run 5 MVTID for static pressure 8000 FC.FC5.RX SP.BUF Run 5 MVTID for static pressure 9000 FC.FC5.RX SP.BUF Run 5 MVTID for temperature 9000 FC.FC5.RX SP.BUF Run 5 MVTID for temperature 9000 FC.FC5.RX FTEMP BUF Run 5 MVTID for temperature 9000 FC.FC5.RX FTEMP BUF Run 5 MVTID for temperature 9000 FC.FC5.RX FTEMP BUF Run 5 MVTID for temperature 9000 FC.FC5.RX FTEMP BUF Run 5 SIMPLE FUN 5 PSSOURCE RUN 5 SIMPLE FUN 5 PSSOURCE RUN 5 SIMPLE FUN 5 PSSOURCE RUN 5 SIMPLE FUN 5 PSSOURCE RUN 5 MVTID FUN 5 PSSOURCE RUN 5 MVTID FUN 5 PSSOURCE RUN 5 MVTID FUN 5 PSSOURCE RUN 5 MVTID FUN 5 PSSOURCE RUN 5 MVTID FUN 5 PSSOURCE RUN 5 MVTID FUN 5 PSSOURCE RUN 5 MVTID FUN 5 PSSOURCE RUN 5 MVTID FUN 5 PSSOURCE RUN 5 MVTID FOR 5 MVTID FUN 5 MV	7919	FC.FC4.HE_CH_AVG	Run 4 Helium (H2) current hour average
7921 FC.FC4.RX AR PCT function block 7922 FC.FC4.AR CH AVG Run 4 Argon (AR) previous hour average 7923 FC.FC4.AR CH AVG Run 4 Argon (AR) previous hour average 7924 FC.FC5.RX CFG TYPE Run 5 configuration type 7925 FC.RUN 5 DIRECTION Run 5 station assignment 7926 FC.RUN 5 DIRECTION Run 5 statio pressure source 7927 FC.RUN 5 SPSOURCE Run 5 static pressure source 7928 FC.FC5.RX SP BUF Run 5 static pressure value 7930 FC.RS MYTID SP Run 5 temperature value 7930 FC.RS.MYTID FT Run 5 temperature source 7931 FC.RS. MYTID FT Run 5 temperature value 7932 FC.FC5.RX PIPE DIAM Run 5 pipe diameter 7933 FC.FC5.RX PIPE DIAM Run 5 pipe diameter 7934 FC.FC5.RX PIPE DIAM Run 5 pipe diameter 7935 FC.FC5.RX DECUT VAL Run 5 differential pressure cutoff 7936 FC.FC5.RX DECUT VAL Run 5 differential pressure cutoff 7936 FC.RUN 5 DPSOURCE Run 5 differential pressure value </td <td>7920</td> <td>FC.FC4.HE_PH_AVG</td> <td></td>	7920	FC.FC4.HE_PH_AVG	
7923 FC.FC4.AR PH AVG Run 4 Argon (AR) previous hour average 7924 FC.FC5.RX CFG TYPE Run 5 configuration type 7926 FC.RUN 5 STATION Run 5 static assignment 7927 FC.RUN 5 DIRECTION Run 5 static pressure source 7927 FC.RUN 5 SPSOURCE Run 5 MTD 10 for static pressure 7928 FC.RS MYTID SP Run 5 MTD 10 for static pressure 7929 FC.FC5.RX SP BUF Run 5 temperature source 7930 FC.RUN 5 FTSOURCE Run 5 temperature source 7931 FC.RS MYTID FT Run 5 temperature value 7932 FC.FC5.RX FTEMP BUF Run 5 temperature value 7933 FC.FC5.RX PIPE DIAM Run 5 pipe diameter 7934 FC.FC5.RX PIPE DIAM Run 5 orffice diameter in use 7935 FC.FC5.RX PIPE DIAM Run 5 orffice diameter in use 7936 FC.FC5.RX PIPE DIAM Run 5 differential pressure cutoff 7936 FC.RSD.RY DPSOURCE Run 5 differential pressure cutoff 7936 FC.RSD.RX DPSOURCE Run 5 differential pressure source 7937 FC.FC5.RX DBUF Run 5 flow	7921	FC.FC4.RX AR PCT	
7923 FC.FC4.AR PH AVG	7922	FC.FC4.AR_CH_AVG	Run 4 Argon (AR) current hour average
7924 FC.FCS.RX CFG_TYPE Run 5 configuration type 7925 FC.RUN 5 STATION Run 5 station assignment 7926 FC.RUN 5 DIRECTION Run 5 static pressure 7927 FC.RUN 5 SPSOURCE Run 5 static pressure source 7928 FC.RS MYTID SP Run 5 MYT ID for static pressure 7929 FC.FCS.RX SP_BUF Run 5 static pressure value 7930 FC.RUN 5 FTSOURCE Run 5 temperature source 7931 FC.RS MYTID FT Run 5 MYT ID for temperature 7932 FC.FCS.RX FTEMP BUF Run 5 Imperature value 7933 FC.FCS.RX FIPE DIAM Run 5 imperature value 7933 FC.FCS.RX PIPE DIAM Run 5 office diameter in use 7934 FC.FCS.RX PIPE DIAM Run 5 office diameter in use 7935 FC.FCS.RX DPOUT VAL Run 5 differential pressure cutoff 7936 FC.FCS.RX DPOUT VAL Run 5 differential pressure cutoff 7937 FC.RS MYTID DP Run 5 differential pressure value 7938 FC.FCS.RX DPOUTCE Run 5 differential pressure value 7939 FC.FCS.RX DPOUTCE Run 5 flow rate </td <td>7923</td> <td></td> <td></td>	7923		
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7948 FC.RUN_5_MAXFREQ Run 5 Iow frequency Run 5 Iow frequency cutoff Run 5 AGA7 K factor (pulses/volume or volume/pulse) 7950 FC.FC5.RX_AGA7_KFACTOR Run 5 Counts from HSC 7951 FC.FC5.IUDI_COUNT Run 5 Counts from HSC 7952 FC.FC5.RX_PPS Run 5 pulses per second (filtered frequency) 7953 FC.FC5.RX_AGA7_FACTOR Run 5 AGA7 correction factor 7954 FC.FC5.RX_KFACTOR_USED Run 5 AGA7 K factor used 7955 FC.FC5.OR_UCFLOWRATE Run 5 uncorrected flow rate 7956 FC.FC5.RX_AA_CUTOFF Run 5 AutoAdjust low frequency cutoff 7957 FC.AA_5.KM Run 5 AutoAdjust K factor Main Rotor 7958 FC.AA_5.KS Run 5 AutoAdjust K factor Sense Rotor 7959 FC.RUN 5 AA MAXACF Run 5 AutoAdjust maximum actual volume	7946	FC.FC5.OR_MINFLOWRATE	Run 5 minimum flow rate
7949 FC.FC5.RX_LCUTOFF Run 5 low frequency cutoff Run 5 AGA7 K factor (pulses/volume or volume/pulse) 7950 FC.FC5.RX_AGA7_KFACTOR 7951 FC.FC5.IUDI_COUNT Run 5 Counts from HSC 7952 FC.FC5.RX_PPS Run 5 pulses per second (filtered frequency) 7953 FC.FC5.RX_AGA7_FACTOR Run 5 AGA7 correction factor 7954 FC.FC5.RX_KFACTOR_USED Run 5 AGA7 K factor used 7955 FC.FC5.OR_UCFLOWRATE Run 5 uncorrected flow rate 7956 FC.FC5.RX_AA_CUTOFF Run 5 AutoAdjust low frequency cutoff 7957 FC.AA_5.KM Run 5 AutoAdjust K factor Main Rotor 7958 FC.AA_5.KS Run 5 AutoAdjust K factor Sense Rotor Run 5 AutoAdjust maximum actual volume	7947	FC.FC5.OR_MAXFLOWRATE	Run 5 maximum flow rate
Run 5 AGA7 K factor (pulses/volume or volume/pulse) 7951 FC.FC5.IUDI_COUNT 7952 FC.FC5.RX_PPS Run 5 Dulses per second (filtered frequency) 7953 FC.FC5.RX_AGA7_FACTOR 7954 FC.FC5.RX_KFACTOR USED 7955 FC.FC5.OR_UCFLOWRATE 7956 FC.FC5.RX_AGA_CUTOFF 7957 FC.AA_5.KM Run 5 AutoAdjust K factor Main Rotor 7958 FC.AA_5.KS Run 5 AutoAdjust K factor Sense Rotor Run 5 AutoAdjust maximum actual volume	7948	FC.RUN_5_MAXFREQ	Run 5 maximum frequency
7950FC.FC5.RX_AGA7_KFACTORvolume/pulse)7951FC.FC5.IUDI_COUNTRun 5 Counts from HSC7952FC.FC5.RX_PPSRun 5 pulses per second (filtered frequency)7953FC.FC5.RX_AGA7_FACTORRun 5 AGA7 correction factor7954FC.FC5.RX_KFACTOR_USEDRun 5 AGA7 K factor used7955FC.FC5.OR_UCFLOWRATERun 5 uncorrected flow rate7956FC.FC5.RX_AA_CUTOFFRun 5 AutoAdjust low frequency cutoff7957FC.AA_5.KMRun 5 AutoAdjust K factor Main Rotor7958FC.AA_5.KSRun 5 AutoAdjust K factor Sense Rotor7959FC.RUN 5 AA MAXACFRun 5 AutoAdjust maximum actual volume	7949	FC.FC5.RX_LCUTOFF	Run 5 low frequency cutoff
7951 FC.FC5.IUDI_COUNT 7952 FC.FC5.RX_PPS Run 5 pulses per second (filtered frequency) 7953 FC.FC5.RX_AGA7_FACTOR Run 5 AGA7 correction factor 7954 FC.FC5.RX_KFACTOR_USED Run 5 AGA7 K factor used 7955 FC.FC5.OR_UCFLOWRATE Run 5 uncorrected flow rate 7956 FC.FC5.RX_AA_CUTOFF Run 5 AutoAdjust low frequency cutoff 7957 FC.AA_5.KM Run 5 AutoAdjust K factor Main Rotor 7958 FC.AA_5.KS Run 5 AutoAdjust K factor Sense Rotor 7959 FC.RUN 5 AA MAXACF Run 5 AutoAdjust maximum actual volume	7950	FC.FC5.RX AGA7 KFACTOR	· ·
7952 FC.FC5.RX_PPS Run 5 pulses per second (filtered frequency) 7953 FC.FC5.RX_AGA7_FACTOR Run 5 AGA7 correction factor 7954 FC.FC5.RX_KFACTOR_USED Run 5 AGA7 K factor used 7955 FC.FC5.OR_UCFLOWRATE Run 5 uncorrected flow rate 7956 FC.FC5.RX_AA_CUTOFF Run 5 AutoAdjust low frequency cutoff 7957 FC.AA_5.KM Run 5 AutoAdjust K factor Main Rotor 7958 FC.AA_5.KS Run 5 AutoAdjust K factor Sense Rotor 7959 FC.RUN 5 AA MAXACF Run 5 AutoAdjust maximum actual volume			
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7958FC.AA_5.KSRun 5 AutoAdjust K factor Sense Rotor7959FC.RUN 5 AA MAXACFRun 5 AutoAdjust maximum actual volume			
7959 FC.RUN 5 AA MAXACF Run 5 AutoAdjust maximum actual volume			•
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Reg#	Variable	Description
7961	FC.FC5.RX AA DEVLIMIT	Run 5 AutoAdjust deviation limit
7962	FC.AA_5.IUDI_MAIN_ROTOR	Run 5 AutoAdjust delta counts from HSC to Main Rotor
7963	FC.AA_5.IUDI_SENS_ROTOR	Run 5 AutoAdjust delta counts from HSC to Sense Rotor
7964	FC.FC5.IR AAVOLUME	Run 5 AutoAdjust adjusted volume into the Flow Computer FB
7965	FC.AA 5 DELTAABAR	Run 5 AutoAdjust delta a bar
7966	FC.FC5.RX AGA10 SOS	
7967	FC.FC5.RX_SOS_PCT_DIFF	Run 5 Speed of Sound calculated by AGA 10 Run 5 Speed of Sound percentage difference between calculated and Ultrasonic
7968	FC.FC5.RX_SOS_LIMIT	Run 5 Speed of Sound percentage difference limit
7969	FC.FC5.RX_SFREQ_DB	Run 5 cutoff value in seconds for low frequency PD meters
7970	FC.FC5.RX DP LLAL	Run 5 differential pressure low-low alarm limits
7971	FC.FC5.RX DP LAL	Run 5 differential pressure low alarm limits
7972	FC.FC5.RX DP HAL	Run 5 differential pressure high alarm limits
7973	FC.FC5.RX DP HHAL	Run 5 differential pressure high-high alarm limits
7974	FC.FC5.RX SP LLAL	Run 5 static pressure low-low alarm limits
7975	FC.FC5.RX SP LAL	Run 5 static pressure low alarm limits
7976	FC.FC5.RX SP HAL	Run 5 static pressure high alarm limits
7977	FC.FC5.RX SP HHAL	Run 5 static pressure high-high alarm limits
7978	FC.FC5.RX FTEMP LLAL	Run 5 temperature low-low alarm limits
7979	FC.FC5.RX FTEMP LAL	Run 5 temperature low alarm limits
7980	FC.FC5.RX FTEMP HAL	Run 5 temperature high alarm limits
7981	FC.FC5.RX FTEMP HHAL	Run 5 temperature high-high alarm limits
7982	FC.FC5.RX BETA HILIMIT	Run 5 beta ratio high alarm limits
7983	FC.FC5.RX_BETA_LOLIMIT	Run 5 beta ratio low alarm limits
7984	FC.FC5.RX DP INP	Run 5 differential pressure input to the Flow Computer function block
7985	FC.FC5.DP CH AVG	Run 5 differential pressure current hour average
7986	FC.FC5.DP_PH_AVG	Run 5 differential pressure previous hour average
7987	FC.FC5.RX_SP_INP	Run 5 static pressure input to the Flow Computer function block
7988	FC.FC5.SP_CH_AVG	Run 5 static pressure current hour average
7989	FC.FC5.SP_PH_AVG	Run 5 static pressure previous hour average
7990	FC.FC5.RX_FTEMP_INP	Run 5 temperature input to the Flow Computer function block
7991	FC.FC5.FTEMP_CH_AVG	Run 5 temperature current hour average
7992	FC.FC5.FTEMP PH AVG	Run 5 temperature previous hour average
7993	FC.FC5.RX_HTVAL_GC	Run 5 heating value input to the Flow Computer function block
7994	FC.FC5.HTVAL_CH_AVG	Run 5 heating value current hour average
7995	FC.FC5.HTVAL_PH_AVG	Run 5 heating value previous hour average
7996	FC.FC5.RX_GRAVITY_LIVE	Run 5 specific gravity input to the Flow Computer function block
7997	FC.FC5.SG_CH_AVG	Run 5 specific gravity current hour average
7998	FC.FC5.SG_PH_AVG	Run 5 specific gravity previous hour average
7999	FC.FC5.RX_N2_LIVE	Run 5 Nitrogen input to the Flow Computer function block
8000	FC.FC5.N2 CH AVG	Run 5 Nitrogen current hour average
8001	FC.FC5.N2_PH_AVG	Run 5 Nitrogen previous hour average
8001	FC.FC5.RX CO2 LIVE	Run 5 Carbon Dioxide (CO2) input to the Flow
0002	1 0.1 00.1t/_002_LIVE	Train a Garbon bioxide (GOZ) input to the Flow

Reg#	Variable	Description
1109		Computer function block
		Run 5 Carbon Dioxide (CO2) current hour
8003	FC.FC5.CO2_CH_AVG	average
8004	FC.FC5.CO2 PH AVG	Run 5 Carbon Dioxide (CO2) previous hour average
0004	16.165.662_111_AVG	Run 5 Methane (CH4) input to the Flow
8005	FC.FC5.RX_CH4_LIVE	Computer function block
8006	FC.FC5.CH4_CH_AVG	Run 5 Methane (CH4) current hour average
8007	FC.FC5.CH4_PH_AVG	Run 5 Methane (CH4) previous hour average
8008	FC.FC5.RX_C2_LIVE	Run 5 Ethane (C2) input to the Flow Computer function block
8009	FC.FC5.C2_CH_AVG	Run 5 Ethane (C2) current hour average
8010	FC.FC5.C2_PH_AVG	Run 5 Ethane (C2) previous hour average
8011	FC.FC5.RX_C3_LIVE	Run 5 Propane (C3) input to the Flow Computer function block
8012	FC.FC5.C3_CH_AVG	Run 5 Propane (C3) current hour average
8013	FC.FC5.C3_PH_AVG	Run 5 Propane (C3) previous hour average
		Run 5 I-Butane (I-C4) input to the Flow Computer
8014	FC.FC5.RX_IC4_LIVE	function block
8015	FC.FC5.IC4_CH_AVG	Run 5 I-Butane (I-C4) current hour average
8016	FC.FC5.IC4_PH_AVG	Run 5 I-Butane (I-C4) previous hour average Run 5 N-Butane (N-C4) input to the Flow
8017	FC.FC5.RX NC4 LIVE	Computer function block
8018	FC.FC5.NC4 CH AVG	Run 5 N-Butane (N-C4) current hour average
8019	FC.FC5.NC4 PH AVG	Run 5 N-Butane (N-C4) previous hour average
8020	FC.FC5.RX IC5 LIVE	Run 5 heating value input to the Flow Computer function block
8021	FC.FC5.IC5 CH AVG	Run 5 heating value current hour average
8022	FC.FC5.IC5 PH AVG	Run 5 heating value previous hour average
8023	FC.FC5.RX_NC5_LIVE	Run 5 Pentane (CH5) input to the Flow Computer function block
8024	FC.FC5.NC5_CH_AVG	Run 5 Pentane (CH5) current hour average
8025	FC.FC5.NC5_PH_AVG	Run 5 Pentane (CH5) previous hour average
8026	FC.FC5.RX_C6_LIVE	Run 5 Hexane (C6) input to the Flow Computer function block
8027	FC.FC5.C6_CH_AVG	Run 5 Hexane (C6) current hour average
8028	FC.FC5.C6_PH_AVG	Run 5 Hexane (C6) previous hour average
8029	FC.FC5.RX_C7_LIVE	Run 5 Heptane (C7) input to the Flow Computer function block
8030	FC.FC5.C7_CH_AVG	Run 5 Heptane (C7) current hour average
8031	FC.FC5.C7_PH_AVG	Run 5 Heptane (C7) previous hour average
9020	EC ECE DV CO LIVE	Run 5 Octane (C8) input to the Flow Computer
8032	FC.FC5.RX_C8_LIVE	function block
8033	FC.FC5.C8_CH_AVG	Run 5 Octane (C8) provious bour average
8034	FC.FC5.C8_PH_AVG	Run 5 Octane (C8) previous hour average Run 5 Nonane (C9) input to the Flow Computer
8035	FC.FC5.RX_C9_LIVE	function block
8036	FC.FC5.C9 CH_AVG	Run 5 Nonane (C9) current hour average
8037	FC.FC5.C9_PH_AVG	Run 5 Nonane (C9) previous hour average Run 5 Decane (C10) input to the Flow Computer
8038	FC.FC5.RX_C10_LIVE	function block
8039	FC.FC5.C10_CH_AVG	Run 5 Decane (C10) current hour average
8040	FC.FC5.C10_PH_AVG	Run 5 Decane (C10) previous hour average
8041	FC.FC5.RX_H2O_PCT	Run 5 Water content (H2O) input to the Flow Computer function block
8042	FC.FC5.H2O CH AVG	Run 5 Water content (H2O) current hour average
JU72		Train 5 Trator Sometime (1120) Sufferit flour average

Reg#	Variable	Description
		Run 5 Water content (H2O) previous hour
8043	FC.FC5.H2O_PH_AVG	average
9044	TO TOT BY LINE DOT	Run 5 Hydrogen sulfide (H2S) input to the Flow
8044	FC.FC5.RX_H2S_PCT	Computer function block Run 5 Hydrogen sulfide (H2S) current hour
8045	FC.FC5.H2S CH AVG	average
	-	Run 5 Hydrogen sulfide (H2S) previous hour
8046	FC.FC5.H2S_PH_AVG	average
8047	FC.FC5.RX H2 PCT	Run 5 Hydrogen (H2) input to the Flow Computer function block
8048	FC.FC5.H2 CH AVG	Run 5 Hydrogen (H2) current hour average
8049	FC.FC5.H2 PH AVG	Run 5 Hydrogen (H2) previous hour average
0043	T C.I CO.IIZ_I II_AVG	Run 5 Carbon Monoxide (CO) input to the Flow
8050	FC.FC5.RX_CO_PCT	Computer function block
		Run 5 Carbon Monoxide (CO) current hour
8051	FC.FC5.CO_CH_AVG	average
8052	FC.FC5.CO PH AVG	Run 5 Carbon Monoxide (CO) previous hour average
- 5552	10.100.00 <u>-</u> 111 <u>-</u> 1110	Run 5 Oxygen (O2) input to the Flow Computer
8053	FC.FC5.RX_O2_PCT	function block
8054	FC.FC5.O2_CH_AVG	Run 5 Oxygen (O2) current hour average
8055	FC.FC5.O2_PH_AVG	Run 5 Oxygen (O2) previous hour average
0050	FO FOE DV. HE. DOT	Run 5 Helium (H2) input to the Flow Computer
8056	FC.FC5.RX_HE_PCT	function block
8057	FC.FC5.HE_CH_AVG	Run 5 Helium (H2) current hour average
8058	FC.FC5.HE_PH_AVG	Run 5 Helium (H2) previous hour average Run 5 Argon (AR) input to the Flow Computer
8059	FC.FC5.RX AR PCT	function block
8060	FC.FC5.AR CH AVG	Run 5 Argon (AR) current hour average
8061	FC.FC5.AR PH AVG	Run 5 Argon (AR) previous hour average
8062	FC.FC6.RX CFG TYPE	Run 6 configuration type
8063	FC.RUN 6 STATION	Run 6 station assignment
8064	FC.RUN 6 DIRECTION	Run 6 direction
8065	FC.RUN 6 SPSOURCE	Run 6 static pressure source
8066	FC.R6 MVTID SP	Run 6 MVT ID for static pressure
8067	FC.FC6.RX SP BUF	Run 6 static pressure value
8068	FC.RUN_6_FTSOURCE	Run 6 temperature source
8069	FC.R6_MVTID_FT	Run 6 MVT ID for temperature
8070	FC.FC6.RX FTEMP BUF	Run 6 temperature value
8071	FC.FC6.RX PIPE DIAM	Run 6 pipe diameter
8072	FC.FC6.ORIF_DIAM_INUSE	Run 6 orifice diameter in use
8073	FC.FC6.RX DPCUT VAL	Run 6 differential pressure cutoff
8074	FC.RUN 6 DPSOURCE	Run 6 differential pressure source
8075	FC.R6_MVTID_DP	Run 6 MVT ID for differential pressure
8076	FC.FC6.RX DP BUF	Run 6 differential pressure value
8077	FC.FC6.OR FLOW RATE	Run 6 flow rate
8078	FC.FC6.RX_FRATE_ARCHUNITS	Run 6 flow rate units
8079	FC.FC6.OR ENERGY RATE	Run 6 energy rate
8080	FC.FC6.RX_ERATE_ARCHUNITS	Run 6 energy rate units
8081	FC.FC6.RX ORIF DIAM	Run 6 orifice diameter setting
8082	FC.FC6.RX ORIF UNITS	Run 6 orifice diameter units
8083	FC.FC6.RX BETA	Run 6 beta ratio
8084	FC.FC6.OR MINFLOWRATE	Run 6 minimum flow rate
8085	FC.FC6.OR MAXFLOWRATE	Run 6 maximum flow rate
		o maximum non rato

Reg#	Variable	Description
8086	FC.RUN 6 MAXFREQ	Run 6 maximum frequency
8087	FC.FC6.RX LCUTOFF	Run 6 low frequency cutoff
		Run 6 AGA7 K factor (pulses/volume or
8088	FC.FC6.RX_AGA7_KFACTOR	volume/pulse)
8089	FC.FC6.IUDI_COUNT	Run 6 Counts from HSC
8090	FC.FC6.RX_PPS	Run 6 pulses per second (filtered frequency)
8091	FC.FC6.RX_AGA7_FACTOR	Run 6 AGA7 correction factor
8092	FC.FC6.RX_KFACTOR_USED	Run 6 AGA7 K factor used
8093	FC.FC6.OR_UCFLOWRATE	Run 6 uncorrected flow rate
8094	FC.FC6.RX_AA_CUTOFF	Run 6 AutoAdjust low frequency cutoff
8095	FC.AA 6.KM	Run 6 AutoAdjust K factor Main Rotor
8096	FC.AA 6.KS	Run 6 AutoAdjust K factor Sense Rotor
8097	FC.RUN 6 AA MAXACF	Run 6 AutoAdjust maximum actual volume
8098	FC.AA 6.ABAR	Run 6 AutoAdjust a bar
8099	FC.FC6.RX AA DEVLIMIT	Run 6 AutoAdjust deviation limit
		Run 6 AutoAdjust delta counts from HSC to Main
8100	FC.AA_6.IUDI_MAIN_ROTOR	Rotor
0404	FO AA GUUDI OFNO DOTOD	Run 6 AutoAdjust delta counts from HSC to
8101	FC.AA_6.IUDI_SENS_ROTOR	Sense Rotor Run 6 AutoAdjust adjusted volume into the Flow
8102	FC.FC6.IR AAVOLUME	Computer FB
8103	FC.AA 6 DELTAABAR	Run 6 AutoAdjust delta a bar
8104	FC.FC6.RX AGA10 SOS	Run 6 Speed of Sound calculated by AGA 10
0104	10.100.10X_NO/NO-000	Run 6 Speed of Sound percentage difference
8105	FC.FC6.RX_SOS_PCT_DIFF	between calculated and Ultrasonic
0.400	50 500 DV 000 LINET	Run 6 Speed of Sound percentage difference
8106	FC.FC6.RX_SOS_LIMIT	limit Run 6 cutoff value in seconds for low frequency
8107	FC.FC6.RX SFREQ DB	PD meters
8108	FC.FC6.RX DP LLAL	Run 6 differential pressure low-low alarm limits
8109	FC.FC6.RX DP LAL	Run 6 differential pressure low alarm limits
8110	FC.FC6.RX DP HAL	Run 6 differential pressure high alarm limits
8111	FC.FC6.RX DP HHAL	Run 6 differential pressure high-high alarm limits
8112	FC.FC6.RX SP LLAL	Run 6 static pressure low-low alarm limits
8113	FC.FC6.RX SP LAL	Run 6 static pressure low alarm limits
8114	FC.FC6.RX SP HAL	Run 6 static pressure high alarm limits
8115	FC.FC6.RX SP HHAL	Run 6 static pressure high-high alarm limits
8116	FC.FC6.RX_FTEMP_LLAL	Run 6 temperature low-low alarm limits
8117	FC.FC6.RX_FTEMP_LAL	Run 6 temperature low alarm limits
	FC.FC6.RX_FTEMP_HAL	Run 6 temperature low alarm limits
8118 8119		-
	FC.FC6.RX_FTEMP_HHAL	Run 6 temperature high-high alarm limits
8120	FC.FC6.RX_BETA_HILIMIT	Run 6 beta ratio high alarm limits
8121	FC.FC6.RX_BETA_LOLIMIT	Run 6 beta ratio low alarm limits Run 6 differential pressure input to the Flow
8122	FC.FC6.RX_DP_INP	Computer function block
8123	FC.FC6.DP CH AVG	Run 6 differential pressure current hour average
		Run 6 differential pressure previous hour
8124	FC.FC6.DP_PH_AVG	average
8125	FC.FC6.RX_SP_INP	Run 6 static pressure input to the Flow Computer function block
8126	FC.FC6.SP_CH_AVG	Run 6 static pressure current hour average
8127	FC.FC6.SP PH AVG	Run 6 static pressure previous hour average
8128	FC.FC6.RX FTEMP INP	Run 6 temperature input to the Flow Computer function block

Reg#	Variable	Description
8129	FC.FC6.FTEMP CH AVG	Run 6 temperature current hour average
8130	FC.FC6.FTEMP PH AVG	Run 6 temperature previous hour average
	-	Run 6 heating value input to the Flow Computer
8131	FC.FC6.RX_HTVAL_GC	function block
8132	FC.FC6.HTVAL_CH_AVG	Run 6 heating value current hour average
8133	FC.FC6.HTVAL_PH_AVG	Run 6 heating value previous hour average
8134	FC.FC6.RX GRAVITY LIVE	Run 6 specific gravity input to the Flow Computer function block
8135	FC.FC6.SG CH AVG	Run 6 specific gravity current hour average
8136	FC.FC6.SG PH AVG	Run 6 specific gravity previous hour average
0100	10.100.00_11_7.00	Run 6 Nitrogen input to the Flow Computer
8137	FC.FC6.RX_N2_LIVE	function block
8138	FC.FC6.N2_CH_AVG	Run 6 Nitrogen current hour average
8139	FC.FC6.N2_PH_AVG	Run 6 Nitrogen previous hour average
0440	E0 E00 BV 000 LIVE	Run 6 Carbon Dioxide (CO2) input to the Flow
8140	FC.FC6.RX_CO2_LIVE	Computer function block Run 6 Carbon Dioxide (CO2) current hour
8141	FC.FC6.CO2_CH_AVG	average
		Run 6 Carbon Dioxide (CO2) previous hour
8142	FC.FC6.CO2_PH_AVG	average
8143	FC.FC6.RX CH4 LIVE	Run 6 Methane (CH4) input to the Flow Computer function block
8144	FC.FC6.CH4 CH AVG	Run 6 Methane (CH4) current hour average
8145	FC.FC6.CH4 PH AVG	Run 6 Methane (CH4) previous hour average
0143	FC.FC0.CH4_FH_AVG	Run 6 Ethane (C2) input to the Flow Computer
8146	FC.FC6.RX_C2_LIVE	function block
8147	FC.FC6.C2_CH_AVG	Run 6 Ethane (C2) current hour average
8148	FC.FC6.C2_PH_AVG	Run 6 Ethane (C2) previous hour average
		Run 6 Propane (C3) input to the Flow Computer
8149	FC.FC6.RX_C3_LIVE	function block
8150	FC.FC6.C3_CH_AVG	Run 6 Propane (C3) current hour average
8151	FC.FC6.C3_PH_AVG	Run 6 Propane (C3) previous hour average Run 6 I-Butane (I-C4) input to the Flow Computer
8152	FC.FC6.RX IC4 LIVE	function block
8153	FC.FC6.IC4_CH_AVG	Run 6 I-Butane (I-C4) current hour average
8154	FC.FC6.IC4 PH AVG	Run 6 I-Butane (I-C4) previous hour average
0.0.		Run 6 N-Butane (N-C4) input to the Flow
8155	FC.FC6.RX_NC4_LIVE	Computer function block
8156	FC.FC6.NC4_CH_AVG	Run 6 N-Butane (N-C4) current hour average
8157	FC.FC6.NC4_PH_AVG	Run 6 N-Butane (N-C4) previous hour average
0150	EC EC6 BY IC5 LIVE	Run 6 heating value input to the Flow Computer function block
8158	FC.FC6.RX_IC5_LIVE	
8159	FC.FC6.IC5_CH_AVG	Run 6 heating value provings bour average
8160	FC.FC6.IC5_PH_AVG	Run 6 heating value previous hour average Run 6 Pentane (CH5) input to the Flow Computer
8161	FC.FC6.RX_NC5_LIVE	function block
8162	FC.FC6.NC5_CH_AVG	Run 6 Pentane (CH5) current hour average
8163	FC.FC6.NC5_PH_AVG	Run 6 Pentane (CH5) previous hour average
0404	F0 F00 DV 00 LIVE	Run 6 Hexane (C6) input to the Flow Computer
8164	FC.FC6.RX_C6_LIVE	function block
8165	FC.FC6.C6_CH_AVG	Run 6 Hexane (C6) current hour average
8166	FC.FC6.C6_PH_AVG	Run 6 Hexane (C6) previous hour average Run 6 Heptane (C7) input to the Flow Computer
8167	FC.FC6.RX_C7_LIVE	function block
8168	FC.FC6.C7 CH AVG	Run 6 Heptane (C7) current hour average
8169	FC.FC6.C7 PH AVG	Run 6 Heptane (C7) previous hour average

Reg#	Variable	Description
Rogin	Variable	Run 6 Octane (C8) input to the Flow Computer
8170	FC.FC6.RX_C8_LIVE	function block
8171	FC.FC6.C8_CH_AVG	Run 6 Octane (C8) current hour average
8172	FC.FC6.C8_PH_AVG	Run 6 Octane (C8) previous hour average
8173	FC.FC6.RX_C9_LIVE	Run 6 Nonane (C9) input to the Flow Computer function block
8174	FC.FC6.C9_CH_AVG	Run 6 Nonane (C9) current hour average
8175	FC.FC6.C9_PH_AVG	Run 6 Nonane (C9) previous hour average
8176	FC.FC6.RX_C10_LIVE	Run 6 Decane (C10) input to the Flow Computer function block
8177	FC.FC6.C10_CH_AVG	Run 6 Decane (C10) current hour average
8178	FC.FC6.C10_PH_AVG	Run 6 Decane (C10) previous hour average
0470	EC ECC DV 1100 DCT	Run 6 Water content (H2O) input to the Flow
8179	FC.FC6.RX_H2O_PCT	Computer function block
8180	FC.FC6.H2O_CH_AVG	Run 6 Water content (H2O) current hour average Run 6 Water content (H2O) previous hour
8181	FC.FC6.H2O PH AVG	average
		Run 6 Hydrogen sulfide (H2S) input to the Flow
8182	FC.FC6.RX_H2S_PCT	Computer function block
8183	FC.FC6.H2S CH AVG	Run 6 Hydrogen sulfide (H2S) current hour average
0100	1 6.1 66.1126_611_7.00	Run 6 Hydrogen sulfide (H2S) previous hour
8184	FC.FC6.H2S_PH_AVG	average
8185	FC.FC6.RX_H2_PCT	Run 6 Hydrogen (H2) input to the Flow Computer function block
8186	FC.FC6.H2_CH_AVG	Run 6 Hydrogen (H2) current hour average
8187	FC.FC6.H2_PH_AVG	Run 6 Hydrogen (H2) previous hour average
0400	50 500 DV 00 D0T	Run 6 Carbon Monoxide (CO) input to the Flow
8188	FC.FC6.RX_CO_PCT	Computer function block Run 6 Carbon Monoxide (CO) current hour
8189	FC.FC6.CO CH AVG	average
		Run 6 Carbon Monoxide (CO) previous hour
8190	FC.FC6.CO_PH_AVG	average
8191	FC.FC6.RX_O2_PCT	Run 6 Oxygen (O2) input to the Flow Computer function block
8192	FC.FC6.O2 CH AVG	Run 6 Oxygen (O2) current hour average
8193	FC.FC6.O2 PH AVG	Run 6 Oxygen (O2) previous hour average
0.00	10.100.02_111_440	Run 6 Helium (H2) input to the Flow Computer
8194	FC.FC6.RX_HE_PCT	function block
8195	FC.FC6.HE_CH_AVG	Run 6 Helium (H2) current hour average
8196	FC.FC6.HE_PH_AVG	Run 6 Helium (H2) previous hour average
8197	FC.FC6.RX_AR_PCT	Run 6 Argon (AR) input to the Flow Computer function block
8198	FC.FC6.AR CH AVG	Run 6 Argon (AR) current hour average
8199	FC.FC6.AR PH AVG	Run 6 Argon (AR) previous hour average
8200	FC.FC7.RX_CFG_TYPE	Run 7 configuration type
8201	FC.RUN 7 STATION	Run 7 station assignment
8202	FC.RUN_7_DIRECTION	Run 7 direction
8203	FC.RUN_7_SPSOURCE	Run 7 static pressure source
8204	FC.R7 MVTID SP	Run 7 MVT ID for static pressure
8205	FC.FC7.RX SP BUF	Run 7 static pressure value
8206	FC.RUN 7 FTSOURCE	Run 7 temperature source
8207	FC.R7 MVTID FT	Run 7 MVT ID for temperature
8208	FC.FC7.RX_FTEMP_BUF	Run 7 temperature value
8209	FC.FC7.RX PIPE DIAM	Run 7 pipe diameter
8210	FC.FC7.ORIF DIAM INUSE	Run 7 orifice diameter in use
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8211 FC.FC.TRX DPCUT VAL 8212 FC.RUN 7 DPSOURCE 8213 FC.RY MYTID DP 8214 FC.FC.RY MYTID DP 8215 FC.FC.TRX FT. DP 8215 FC.FC.TOR FLOW RATE 8216 FC.FC.TOR. FLOW RATE 8217 FC.FC.TOR. FLOW RATE 8217 FC.FC.TOR. FLOW RATE 8218 FC.FC.TOR. FLOW RATE 8219 FC.FC.TOR. FLOW RATE 8210 FC.FC.TRX FRATE_ARCHUNITS 8211 FC.FC.TOR. FLOW RATE 8211 FC.FC.TOR. FLOW RATE 8212 FC.FC.TOR. FLOW RATE 8213 FC.FC.TRX FRATE_ARCHUNITS 8214 FC.FC.TRX FRATE_ARCHUNITS 8215 FC.FC.TRX FRATE_ARCHUNITS 8216 FC.FC.TRX FRATE_ARCHUNITS 8217 FC.FC.TRX FRATE_ARCHUNITS 8218 FC.FC.TRX GRIF_DIAM 8219 FC.FC.TRX GRIF_DIAM 8210 FC.FC.TRX GRIF_DIAM 8210 FC.FC.TRX GRIF_DIAM 8210 FC.FC.TRX GRIF_DIAM 8211 FC.FC.TRX GRIF_DIAM 8222 FC.FC.TRX GRIF_DIAM 8223 FC.FC.TRX GRIF_DIAM 8224 FC.FC.TRX GRIF_DIAM 8225 FC.FC.TOR. MAXELOWRATE 8226 FC.FC.TOR. MAXELOWRATE 8227 FC.FC.TOR. MAXELOWRATE 8228 FC.FC.TOR. MAXELOWRATE 8229 FC.FC.TOR. MAXELOWRATE 8220 FC.FC.TRX GRIF_DIAM 8220 FC.FC.TRX GRIF_DIAM 8221 FC.FC.TRX GRIF_DIAM 8222 FC.FC.TRX GRIF_DIAM 8223 FC.FC.TRX GRIF_DIAM 8224 FC.RUN 7 MAXEREQ 825 FC.FC.TRX GRIF_DIAM 8226 FC.FC.TRX GRIF_DIAM 8227 FC.FC.TRX GRIF_DIAM 8228 FC.FC.TRX GRIF_DIAM 8229 FC.FC.TRX GRIF_DIAM 8220 FC.FC.TRX GRIF_DIAM 8220 FC.FC.TRX GRIF_DIAM 8221 FC.FC.TRX GRIF_DIAM 8222 FC.FC.TRX GRIF_DIAM 8223 FC.FC.TRX GRIF_DIAM 8224 FC.RUN 7 MAXEREQ 8225 FC.FC.TRX GRIF_DIAM 8226 FC.FC.TRX GRIF_DIAM 8227 FC.FC.TRX GRIF_DIAM 8228 FC.FC.TRX GRIF_DIAM 8229 FC.FC.TRX GRIF_DIAM 8229 FC.FC.TRX GRIF_DIAM 8220 FC.FC.TRX GRIF_DIAM 8220 FC.FC.TRX GRIF_DIAM 8221 FC.FC.TRX GRIF_DIAM 8222 FC.FC.TRX GRIF_DIAM 8223 FC.FC.TRX GRIF_DIAM 8224 FC.FC.TRX GRIF_DIAM 8225 FC.FC.TRX GRIF_DIAM 8226 FC.FC.TRX GRIF_DIAM 8227 FC.FC.TRX GRIF_DIAM 8228 FC.FC.TRX GRIF_DIAM 8229 FC.FC.TRX GRIF_DIAM 8220 FC.FC.TRX GRIF_DIAM 8220 FC.FC.TRX GRIF_DIAM 8221 FC.FC.TRX GRIF_DIAM 8221 FC.FC.TRX GRIF_DIAM 8222 FC.FC.TRX GRIF_DIAM 8223 FC.FC.TRX GRIF_DIAM 8224 FC.FC.TRX GRIF_DIAM 8225 FC.FC.TRX GRIF_DIAM 8226 FC.FC.TRX GRIF_DIAM 8227	Reg#	Variable	Description
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8254 FC.FC7.RX_FTEMP_LLAL Run 7 temperature low-low alarm limits	ì		-
<u> </u>			
		FC.FC7.RX FTEMP LAL	Run 7 temperature low alarm limits

Reg#	Variable	Description
8256	FC.FC7.RX_FTEMP_HAL	Run 7 temperature high alarm limits
8257	FC.FC7.RX FTEMP HHAL	Run 7 temperature high-high alarm limits
8258	FC.FC7.RX BETA HILIMIT	Run 7 beta ratio high alarm limits
8259	FC.FC7.RX BETA LOLIMIT	Run 7 beta ratio low alarm limits
		Run 7 differential pressure input to the Flow
8260	FC.FC7.RX_DP_INP	Computer function block
8261	FC.FC7.DP_CH_AVG	Run 7 differential pressure current hour average
0000	F0 F07 DD DU AV0	Run 7 differential pressure previous hour
8262	FC.FC7.DP_PH_AVG	average Run 7 static pressure input to the Flow Computer
8263	FC.FC7.RX SP INP	function block
8264	FC.FC7.SP CH AVG	Run 7 static pressure current hour average
8265	FC.FC7.SP PH AVG	Run 7 static pressure previous hour average
		Run 7 temperature input to the Flow Computer
8266	FC.FC7.RX_FTEMP_INP	function block
8267	FC.FC7.FTEMP_CH_AVG	Run 7 temperature current hour average
8268	FC.FC7.FTEMP_PH_AVG	Run 7 temperature previous hour average
8269	FC.FC7.RX HTVAL GC	Run 7 heating value input to the Flow Computer function block
8270	FC.FC7.HTVAL_GC	Run 7 heating value current hour average
8271	FC.FC7.HTVAL_PH_AVG	Run 7 heating value previous hour average
0271	FC.FC/.IIIVAL_FII_AVG	Run 7 specific gravity input to the Flow
8272	FC.FC7.RX_GRAVITY_LIVE	Computer function block
8273	FC.FC7.SG_CH_AVG	Run 7 specific gravity current hour average
8274	FC.FC7.SG_PH_AVG	Run 7 specific gravity previous hour average
		Run 7 Nitrogen input to the Flow Computer
8275	FC.FC7.RX_N2_LIVE	function block
8276	FC.FC7.N2_CH_AVG	Run 7 Nitrogen current hour average
8277	FC.FC7.N2_PH_AVG	Run 7 Nitrogen previous hour average
8278	FC.FC7.RX_CO2_LIVE	Run 7 Carbon Dioxide (CO2) input to the Flow Computer function block
02.0	TON OTHER DOCUMENT	Run 7 Carbon Dioxide (CO2) current hour
8279	FC.FC7.CO2_CH_AVG	average
0000	FC FC7 CC2 DIL AVC	Run 7 Carbon Dioxide (CO2) previous hour
8280	FC.FC7.CO2_PH_AVG	Run 7 Methane (CH4) input to the Flow
8281	FC.FC7.RX CH4 LIVE	Computer function block
8282	FC.FC7.CH4 CH AVG	Run 7 Methane (CH4) current hour average
8283	FC.FC7.CH4 PH AVG	Run 7 Methane (CH4) previous hour average
		Run 7 Ethane (C2) input to the Flow Computer
8284	FC.FC7.RX_C2_LIVE	function block
8285	FC.FC7.C2_CH_AVG	Run 7 Ethane (C2) current hour average
8286	FC.FC7.C2_PH_AVG	Run 7 Ethane (C2) previous hour average
8287	FC.FC7.RX_C3_LIVE	Run 7 Propane (C3) input to the Flow Computer function block
8288	FC.FC7.C3 CH AVG	Run 7 Propane (C3) current hour average
8289	FC.FC7.C3 PH AVG	Run 7 Propane (C3) previous hour average
3200		Run 7 I-Butane (I-C4) input to the Flow Computer
8290	FC.FC7.RX_IC4_LIVE	function block
8291	FC.FC7.IC4_CH_AVG	Run 7 I-Butane (I-C4) current hour average
8292	FC.FC7.IC4_PH_AVG	Run 7 I-Butane (I-C4) previous hour average
0000	FO FOZ DV NOA LIVE	Run 7 N-Butane (N-C4) input to the Flow
8293	FC.FC7.RX_NC4_LIVE	Computer function block
8294	FC.FC7.NC4_CH_AVG	Run 7 N-Butane (N-C4) current hour average
8295	FC.FC7.NC4_PH_AVG	Run 7 N-Butane (N-C4) previous hour average
8296	FC.FC7.RX_IC5_LIVE	Run 7 heating value input to the Flow Computer

Reg#	Variable	Description
1₹CG#	Valiable	function block
8297	FC.FC7.IC5 CH AVG	Run 7 heating value current hour average
8298	FC.FC7.IC5 PH AVG	Run 7 heating value previous hour average
0230	16.161.160_111_7/46	Run 7 Pentane (CH5) input to the Flow Computer
8299	FC.FC7.RX_NC5_LIVE	function block
8300	FC.FC7.NC5_CH_AVG	Run 7 Pentane (CH5) current hour average
8301	FC.FC7.NC5_PH_AVG	Run 7 Pentane (CH5) previous hour average
8302	EC EC7 DV C6 LIVE	Run 7 Hexane (C6) input to the Flow Computer function block
8303	FC.FC7.RX_C6_LIVE FC.FC7.C6 CH AVG	Run 7 Hexane (C6) current hour average
8304	FC.FC7.C6 PH AVG	Run 7 Hexane (C6) previous hour average
0304	10.107.00_111_AVG	Run 7 Heptane (C7) input to the Flow Computer
8305	FC.FC7.RX_C7_LIVE	function block
8306	FC.FC7.C7_CH_AVG	Run 7 Heptane (C7) current hour average
8307	FC.FC7.C7_PH_AVG	Run 7 Heptane (C7) previous hour average
0200	FC FC7 DV C9 LIVE	Run 7 Octane (C8) input to the Flow Computer function block
8308 8309	FC.FC7.RX_C8_LIVE FC.FC7.C8_CH_AVG	
8310	FC.FC7.C8 PH AVG	Run 7 Octane (C8) current hour average Run 7 Octane (C8) previous hour average
0310	FC.FC7.C6_FII_AVG	Run 7 Nonane (C9) input to the Flow Computer
8311	FC.FC7.RX_C9_LIVE	function block
8312	FC.FC7.C9_CH_AVG	Run 7 Nonane (C9) current hour average
8313	FC.FC7.C9_PH_AVG	Run 7 Nonane (C9) previous hour average
0044	FC FC7 DV C40 LIVE	Run 7 Decane (C10) input to the Flow Computer
8314	FC.FC7.RX_C10_LIVE FC.FC7.C10 CH AVG	function block
8315 8316	FC.FC7.C10_CH_AVG	Run 7 Decane (C10) current hour average Run 7 Decane (C10) previous hour average
0310	FC.FC7.C10_FH_AVG	Run 7 Water content (H2O) input to the Flow
8317	FC.FC7.RX_H2O_PCT	Computer function block
8318	FC.FC7.H2O_CH_AVG	Run 7 Water content (H2O) current hour average
0240	FC FC7 LI2O DIL AVC	Run 7 Water content (H2O) previous hour
8319	FC.FC7.H2O_PH_AVG	average Run 7 Hydrogen sulfide (H2S) input to the Flow
8320	FC.FC7.RX_H2S_PCT	Computer function block
2004	50 507 H00 OH AVO	Run 7 Hydrogen sulfide (H2S) current hour
8321	FC.FC7.H2S_CH_AVG	average Run 7 Hydrogen sulfide (H2S) previous hour
8322	FC.FC7.H2S PH AVG	average
		Run 7 Hydrogen (H2) input to the Flow Computer
8323	FC.FC7.RX_H2_PCT	function block
8324	FC.FC7.H2_CH_AVG	Run 7 Hydrogen (H2) current hour average
8325	FC.FC7.H2_PH_AVG	Run 7 Hydrogen (H2) previous hour average Run 7 Carbon Monoxide (CO) input to the Flow
8326	FC.FC7.RX CO PCT	Computer function block
		Run 7 Carbon Monoxide (CO) current hour
8327	FC.FC7.CO_CH_AVG	average
8328	FC.FC7.CO PH AVG	Run 7 Carbon Monoxide (CO) previous hour average
3020		Run 7 Oxygen (O2) input to the Flow Computer
8329	FC.FC7.RX_02_PCT	function block
8330	FC.FC7.O2_CH_AVG	Run 7 Oxygen (O2) current hour average
8331	FC.FC7.O2_PH_AVG	Run 7 Oxygen (O2) previous hour average
8332	FC.FC7.RX_HE_PCT	Run 7 Helium (H2) input to the Flow Computer function block
8333	FC.FC7.HE CH AVG	Run 7 Helium (H2) current hour average
8334	FC.FC7.HE PH AVG	Run 7 Helium (H2) previous hour average
	1 0.1 01.11E_1 11_7 W O	Trail / Hollain (Hz) providus flour avolugo

Reg#	Variable	Description
		Run 7 Argon (AR) input to the Flow Computer
8335	FC.FC7.RX_AR_PCT	function block
8336	FC.FC7.AR_CH_AVG	Run 7 Argon (AR) current hour average
8337	FC.FC7.AR_PH_AVG	Run 7 Argon (AR) previous hour average
8338	FC.FC8.RX_CFG_TYPE	Run 8 configuration type
8339	FC.RUN_8_STATION	Run 8 station assignment
8340	FC.RUN_8_DIRECTION	Run 8 direction
8341	FC.RUN_8_SPSOURCE	Run 8 static pressure source
8342	FC.R8_MVTID_SP	Run 8 MVT ID for static pressure
8343	FC.FC8.RX_SP_BUF	Run 8 static pressure value
8344	FC.RUN_8_FTSOURCE	Run 8 temperature source
8345	FC.R8_MVTID_FT	Run 8 MVT ID for temperature
8346	FC.FC8.RX_FTEMP_BUF	Run 8 temperature value
8347	FC.FC8.RX_PIPE_DIAM	Run 8 pipe diameter
8348	FC.FC8.ORIF_DIAM_INUSE	Run 8 orifice diameter in use
8349	FC.FC8.RX_DPCUT_VAL	Run 8 differential pressure cutoff
8350	FC.RUN_8_DPSOURCE	Run 8 differential pressure source
8351	FC.R8_MVTID_DP	Run 8 MVT ID for differential pressure
8352	FC.FC8.RX_DP_BUF	Run 8 differential pressure value
8353	FC.FC8.OR_FLOW_RATE	Run 8 flow rate
8354	FC.FC8.RX_FRATE_ARCHUNITS	Run 8 flow rate units
8355	FC.FC8.OR_ENERGY_RATE	Run 8 energy rate
8356	FC.FC8.RX_ERATE_ARCHUNITS	Run 8 energy rate units
8357	FC.FC8.RX_ORIF_DIAM	Run 8 orifice diameter setting
8358	FC.FC8.RX_ORIF_UNITS	Run 8 orifice diameter units
8359	FC.FC8.RX_BETA	Run 8 beta ratio
8360	FC.FC8.OR_MINFLOWRATE	Run 8 minimum flow rate
8361	FC.FC8.OR_MAXFLOWRATE	Run 8 maximum flow rate
8362	FC.RUN_8_MAXFREQ	Run 8 maximum frequency
8363	FC.FC8.RX_LCUTOFF	Run 8 low frequency cutoff
		Run 8 AGA7 K factor (pulses/volume or
8364	FC.FC8.RX_AGA7_KFACTOR	volume/pulse)
8365	FC.FC8.IUDI_COUNT	Run 8 Counts from HSC
8366	FC.FC8.RX_PPS	Run 8 pulses per second (filtered frequency)
8367	FC.FC8.RX_AGA7_FACTOR	Run 8 AGA7 correction factor
8368	FC.FC8.RX_KFACTOR_USED	Run 8 AGA7 K factor used
8369	FC.FC8.OR_UCFLOWRATE	Run 8 uncorrected flow rate
8370	FC.FC8.RX_AA_CUTOFF	Run 8 AutoAdjust low frequency cutoff
8371	FC.AA_8.KM	Run 8 AutoAdjust K factor Main Rotor
8372	FC.AA_8.KS	Run 8 AutoAdjust K factor Sense Rotor
8373	FC.RUN_8_AA_MAXACF	Run 8 AutoAdjust maximum actual volume
8374	FC.AA_8.ABAR	Run 8 AutoAdjust a bar
8375	FC.FC8.RX_AA_DEVLIMIT	Run 8 AutoAdjust deviation limit
8376	FC.AA_8.IUDI_MAIN_ROTOR	Run 8 AutoAdjust delta counts from HSC to Main Rotor
8377	FC.AA 8.IUDI SENS ROTOR	Run 8 AutoAdjust delta counts from HSC to Sense Rotor
9270	EC ECS ID AAVOLLIME	Run 8 AutoAdjust adjusted volume into the Flow
8378	FC.FC8.IR_AAVOLUME	Computer FB Run 8 AutoAdjust delta a bar
8379	FC.AA_8_DELTAABAR	•
8380	FC.FC8.RX_AGA10_SOS	Run 8 Speed of Sound calculated by AGA 10
8381	FC.FC8.RX_SOS_PCT_DIFF	Run 8 Speed of Sound percentage difference

Reg#	Variable	Description
rtogn	*unusio	between calculated and Ultrasonic
		Run 8 Speed of Sound percentage difference
8382	FC.FC8.RX_SOS_LIMIT	limit
8383	FC.FC8.RX_SFREQ_DB	Run 8 cutoff value in seconds for low frequency PD meters
8384	FC.FC8.RX_DP_LLAL	Run 8 differential pressure low-low alarm limits
8385	FC.FC8.RX_DP_LAL	Run 8 differential pressure low alarm limits
8386	FC.FC8.RX_DP_HAL	Run 8 differential pressure high alarm limits
8387	FC.FC8.RX_DP_HHAL	Run 8 differential pressure high-high alarm limits
8388	FC.FC8.RX_SP_LLAL	Run 8 static pressure low-low alarm limits
8389	FC.FC8.RX_SP_LAL	Run 8 static pressure low alarm limits
8390	FC.FC8.RX_SP_HAL	Run 8 static pressure high alarm limits
8391	FC.FC8.RX_SP_HHAL	Run 8 static pressure high-high alarm limits
8392	FC.FC8.RX_FTEMP_LLAL	Run 8 temperature low-low alarm limits
8393	FC.FC8.RX_FTEMP_LAL	Run 8 temperature low alarm limits
8394	FC.FC8.RX_FTEMP_HAL	Run 8 temperature high alarm limits
8395	FC.FC8.RX FTEMP HHAL	Run 8 temperature high-high alarm limits
8396	FC.FC8.RX BETA HILIMIT	Run 8 beta ratio high alarm limits
8397	FC.FC8.RX BETA LOLIMIT	Run 8 beta ratio low alarm limits
		Run 8 differential pressure input to the Flow
8398	FC.FC8.RX_DP_INP	Computer function block
8399	FC.FC8.DP_CH_AVG	Run 8 differential pressure current hour average
8400	FC.FC8.DP_PH_AVG	Run 8 differential pressure previous hour average
8401	FC.FC8.RX_SP_INP	Run 8 static pressure input to the Flow Computer function block
8402	FC.FC8.SP_CH_AVG	Run 8 static pressure current hour average
8403	FC.FC8.SP_PH_AVG	Run 8 static pressure previous hour average
8404	FC.FC8.RX FTEMP INP	Run 8 temperature input to the Flow Computer function block
8405	FC.FC8.FTEMP_CH_AVG	Run 8 temperature current hour average
8406	FC.FC8.FTEMP PH AVG	Run 8 temperature previous hour average
8407	FC.FC8.RX_HTVAL_GC	Run 8 heating value input to the Flow Computer function block
8408	FC.FC8.HTVAL_CH_AVG	Run 8 heating value current hour average
8409	FC.FC8.HTVAL_PH_AVG	Run 8 heating value previous hour average
8410	FC.FC8.RX_GRAVITY_LIVE	Run 8 specific gravity input to the Flow Computer function block
8411	FC.FC8.SG CH AVG	Run 8 specific gravity current hour average
8412	FC.FC8.SG_PH_AVG	Run 8 specific gravity previous hour average
		Run 8 Nitrogen input to the Flow Computer function block
8413 8414	FC.FC8.RX_N2_LIVE FC.FC8.N2 CH AVG	Run 8 Nitrogen current hour average
	FC.FC8.N2_PH_AVG	-
8415		Run 8 Nitrogen previous hour average Run 8 Carbon Dioxide (CO2) input to the Flow
8416	FC.FC8.RX_CO2_LIVE	Computer function block Run 8 Carbon Dioxide (CO2) current hour
8417	FC.FC8.CO2_CH_AVG	average Run 8 Carbon Dioxide (CO2) previous hour
8418	FC.FC8.CO2_PH_AVG	average
8419	FC.FC8.RX_CH4_LIVE	Run 8 Methane (CH4) input to the Flow Computer function block
8420	FC.FC8.CH4 CH AVG	Run 8 Methane (CH4) current hour average
8421	FC.FC8.CH4_PH_AVG	Run 8 Methane (CH4) previous hour average
8422	FC.FC8.RX C2 LIVE	Run 8 Ethane (C2) input to the Flow Computer
		o (o_) input to the riow computer

Reg#	Variable	Description
		function block
8423	FC.FC8.C2 CH AVG	Run 8 Ethane (C2) current hour average
8424	FC.FC8.C2 PH AVG	Run 8 Ethane (C2) previous hour average
		Run 8 Propane (C3) input to the Flow Computer
8425	FC.FC8.RX_C3_LIVE	function block
8426	FC.FC8.C3_CH_AVG	Run 8 Propane (C3) current hour average
8427	FC.FC8.C3_PH_AVG	Run 8 Propane (C3) previous hour average
8428	FC.FC8.RX IC4 LIVE	Run 8 I-Butane (I-C4) input to the Flow Computer function block
8429	FC.FC8.IC4 CH AVG	Run 8 I-Butane (I-C4) current hour average
8430	FC.FC8.IC4 PH AVG	Run 8 I-Butane (I-C4) previous hour average
8431	FC.FC8.RX_NC4_LIVE	Run 8 N-Butane (N-C4) input to the Flow Computer function block
8432	FC.FC8.NC4 CH AVG	Run 8 N-Butane (N-C4) current hour average
8433	FC.FC8.NC4 PH AVG	Run 8 N-Butane (N-C4) previous hour average
0400	10.100.1004_111_7440	Run 8 heating value input to the Flow Computer
8434	FC.FC8.RX_IC5_LIVE	function block
8435	FC.FC8.IC5_CH_AVG	Run 8 heating value current hour average
8436	FC.FC8.IC5_PH_AVG	Run 8 heating value previous hour average
8437	FC.FC8.RX_NC5_LIVE	Run 8 Pentane (CH5) input to the Flow Computer function block
8438	FC.FC8.NC5_CH_AVG	Run 8 Pentane (CH5) current hour average
8439	FC.FC8.NC5_PH_AVG	Run 8 Pentane (CH5) previous hour average
8440	FC.FC8.RX_C6_LIVE	Run 8 Hexane (C6) input to the Flow Computer function block
8441	FC.FC8.C6_CH_AVG	Run 8 Hexane (C6) current hour average
8442	FC.FC8.C6_PH_AVG	Run 8 Hexane (C6) previous hour average
8443	FC.FC8.RX_C7_LIVE	Run 8 Heptane (C7) input to the Flow Computer function block
8444	FC.FC8.C7_CH_AVG	Run 8 Heptane (C7) current hour average
8445	FC.FC8.C7_PH_AVG	Run 8 Heptane (C7) previous hour average
8446	FC.FC8.RX_C8_LIVE	Run 8 Octane (C8) input to the Flow Computer function block
8447	FC.FC8.C8_CH_AVG	Run 8 Octane (C8) current hour average
8448	FC.FC8.C8_PH_AVG	Run 8 Octane (C8) previous hour average
8449	FC.FC8.RX_C9_LIVE	Run 8 Nonane (C9) input to the Flow Computer function block
8450	FC.FC8.C9_CH_AVG	Run 8 Nonane (C9) current hour average
8451	FC.FC8.C9_PH_AVG	Run 8 Nonane (C9) previous hour average
		Run 8 Decane (C10) input to the Flow Computer
8452	FC.FC8.RX_C10_LIVE	function block
8453	FC.FC8.C10_CH_AVG	Run 8 Decane (C10) current hour average
8454	FC.FC8.C10_PH_AVG	Run 8 Decane (C10) previous hour average Run 8 Water content (H2O) input to the Flow
8455	FC.FC8.RX_H2O_PCT	Computer function block
8456	FC.FC8.H2O_CH_AVG	Run 8 Water content (H2O) current hour average
8457	FC.FC8.H2O_PH_AVG	Run 8 Water content (H2O) previous hour average
8458	FC.FC8.RX_H2S_PCT	Run 8 Hydrogen sulfide (H2S) input to the Flow Computer function block
8459	FC.FC8.H2S_CH_AVG	Run 8 Hydrogen sulfide (H2S) current hour average
8460	FC.FC8.H2S_PH_AVG	Run 8 Hydrogen sulfide (H2S) previous hour average
8461	FC.FC8.RX_H2_PCT	Run 8 Hydrogen (H2) input to the Flow Computer function block

Reg#	Variable	Description
8462	FC.FC8.H2 CH AVG	Run 8 Hydrogen (H2) current hour average
8463	FC.FC8.H2 PH AVG	Run 8 Hydrogen (H2) previous hour average
		Run 8 Carbon Monoxide (CO) input to the Flow
8464	FC.FC8.RX_CO_PCT	Computer function block
8465	FC.FC8.CO_CH_AVG	Run 8 Carbon Monoxide (CO) current hour average
8466	FC.FC8.CO PH AVG	Run 8 Carbon Monoxide (CO) previous hour average
8467	FC.FC8.RX O2 PCT	Run 8 Oxygen (O2) input to the Flow Computer function block
8468	FC.FC8.O2 CH AVG	Run 8 Oxygen (O2) current hour average
8469	FC.FC8.O2 PH AVG	Run 8 Oxygen (O2) previous hour average
8470	FC.FC8.RX HE PCT	Run 8 Helium (H2) input to the Flow Computer function block
8471	FC.FC8.HE CH AVG	Run 8 Helium (H2) current hour average
8472	FC.FC8.HE PH AVG	Run 8 Helium (H2) previous hour average
0472	FC.FCO.FIE_FTI_AVG	Run 8 Argon (AR) input to the Flow Computer
8473	FC.FC8.RX_AR_PCT	function block
8474	FC.FC8.AR_CH_AVG	Run 8 Argon (AR) current hour average
8475	FC.FC8.AR PH AVG	Run 8 Argon (AR) previous hour average
8476	UFM.UFM 1 PORT	CWM Master Port connected to Ultrasonic Meter
8477	UFM.UFM 1 ADDRESS	Address of Ultrasonic Meter 1
8478	UFM.UFM 1 TYPE	Ultrasonic Meter 1 Type
		Ultrasonic Meter 1 average Speed of Sound
8479	UFM.UFM_1_AVGSOS	(SOS) - all paths
8480	UFM.UFM_1_SOS1	Ultrasonic Meter 1 Speed of Sound (SOS) path 1
8481	UFM.UFM_1_SOS2	Ultrasonic Meter 1 Speed of Sound (SOS) path 2
8482	UFM.UFM_1_SOS3	Ultrasonic Meter 1 Speed of Sound (SOS) path 3
8483	UFM.UFM_1_SOS4	Ultrasonic Meter 1 Speed of Sound (SOS) path 4
8484	UFM.UFM_1_SOS5	Ultrasonic Meter 1 Speed of Sound (SOS) path 5
8485	MB.SPARE	Ultrasonic Meter n Profile
8486	UFM.UFM_1_SYSSTATUS	Ultrasonic Meter status
8487	UFM.UFM_1_GAIN1A	Ultrasonic Meter gain A path 1
8488	UFM.UFM_1_GAIN2A	Ultrasonic Meter gain A path 2
	UFM.UFM_1_GAIN3A	Ultrasonic Meter gain A path 3
8490	UFM.UFM_1_GAIN4A	Ultrasonic Meter gain A path 4
8491	UFM.UFM_1_GAIN5A	Ultrasonic Meter gain A path 5
8492	UFM.UFM_1_GAIN1B	Ultrasonic Meter gain B path 1
8493	UFM.UFM_1_GAIN2B	Ultrasonic Meter gain B path 2
8494	UFM.UFM_1_GAIN3B	Ultrasonic Meter gain B path 3
8495	UFM.UFM_1_GAIN4B	Ultrasonic Meter gain B path 4
8496	UFM.UFM_1_GAIN5B	Ultrasonic Meter gain B path 5
8497	UFM.UFM_2_PORT	CWM Master Port connected to Ultrasonic Meter 2
8498	UFM.UFM_2_ADDRESS	Address of Ultrasonic Meter 2
8499	UFM.UFM_2_TYPE	Ultrasonic Meter 2 Type
8500	UFM.UFM_2_AVGSOS	Ultrasonic Meter 2 average Speed of Sound (SOS) - all paths
8501	UFM.UFM 2 SOS1	Ultrasonic Meter 2 Speed of Sound (SOS) path 1
8502	UFM.UFM_2_SOS2	Ultrasonic Meter 2 Speed of Sound (SOS) path 2
8503	UFM.UFM_2_SOS3	Ultrasonic Meter 2 Speed of Sound (SOS) path 3
8504	UFM.UFM_2_SOS4	Ultrasonic Meter 2 Speed of Sound (SOS) path 4
8505	UFM.UFM 2 SOS5	Ultrasonic Meter 2 Speed of Sound (SOS) path 5
		- C.E. S. S. III C. III C. II C. II C. III C

Reg#	Variable	Description
8506	MB.SPARE	Ultrasonic Meter n Profile
8507	UFM.UFM 2 SYSSTATUS	Ultrasonic Meter status
8508	UFM.UFM 2 GAIN1A	Ultrasonic Meter gain A path 1
8509	UFM.UFM 2 GAIN2A	Ultrasonic Meter gain A path 2
8510	UFM.UFM 2 GAIN3A	Ultrasonic Meter gain A path 3
8511	UFM.UFM_2_GAIN4A	Ultrasonic Meter gain A path 4
8512	UFM.UFM 2 GAIN5A	Ultrasonic Meter gain A path 5
8513	UFM.UFM 2 GAIN1B	Ultrasonic Meter gain B path 1
8514	UFM.UFM 2 GAIN2B	Ultrasonic Meter gain B path 2
8515	UFM.UFM 2 GAIN3B	Ultrasonic Meter gain B path 3
8516	UFM.UFM 2 GAIN4B	Ultrasonic Meter gain B path 4
8517	UFM.UFM_2_GAIN5B	Ultrasonic Meter gain B path 5
8518	UFM.UFM 3 PORT	CWM Master Port connected to Ultrasonic Meter
8519	UFM.UFM 3 ADDRESS	Address of Ultrasonic Meter 3
8520	UFM.UFM 3 TYPE	Ultrasonic Meter 3 Type
		Ultrasonic Meter 3 average Speed of Sound
8521	UFM.UFM_3_AVGSOS	(SOS) - all paths
8522	UFM.UFM_3_SOS1	Ultrasonic Meter 3 Speed of Sound (SOS) path 1
8523	UFM.UFM_3_SOS2	Ultrasonic Meter 3 Speed of Sound (SOS) path 2
8524	UFM.UFM_3_SOS3	Ultrasonic Meter 3 Speed of Sound (SOS) path 3
8525	UFM.UFM_3_SOS4	Ultrasonic Meter 3 Speed of Sound (SOS) path 4
8526	UFM.UFM_3_SOS5	Ultrasonic Meter 3 Speed of Sound (SOS) path 5
8527	MB.SPARE	Ultrasonic Meter n Profile
8528	UFM.UFM_3_SYSSTATUS	Ultrasonic Meter status
8529	UFM.UFM_3_GAIN1A	Ultrasonic Meter gain A path 1
8530	UFM.UFM_3_GAIN2A	Ultrasonic Meter gain A path 2
8531	UFM.UFM_3_GAIN3A	Ultrasonic Meter gain A path 3
8532	UFM.UFM_3_GAIN4A	Ultrasonic Meter gain A path 4
8533	UFM.UFM_3_GAIN5A	Ultrasonic Meter gain A path 5
8534	UFM.UFM_3_GAIN1B	Ultrasonic Meter gain B path 1
8535	UFM.UFM_3_GAIN2B	Ultrasonic Meter gain B path 2
8536	UFM.UFM_3_GAIN3B	Ultrasonic Meter gain B path 3
8537	UFM.UFM_3_GAIN4B	Ultrasonic Meter gain B path 4
8538	UFM.UFM_3_GAIN5B	Ultrasonic Meter gain B path 5
8539	UFM.UFM 4 PORT	CWM Master Port connected to Ultrasonic Meter 4
8540	UFM.UFM 4 ADDRESS	Address of Ultrasonic Meter 4
8541	UFM.UFM 4 TYPE	Ultrasonic Meter 4 Type
8542	UFM.UFM 4 AVGSOS	Ultrasonic Meter 4 average Speed of Sound (SOS) - all paths
8543	UFM.UFM 4 SOS1	Ultrasonic Meter 4 Speed of Sound (SOS) path 1
8544	UFM.UFM 4 SOS2	Ultrasonic Meter 4 Speed of Sound (SOS) path 2
8545	UFM.UFM 4 SOS3	Ultrasonic Meter 4 Speed of Sound (SOS) path 3
8546	UFM.UFM 4 SOS4	Ultrasonic Meter 4 Speed of Sound (SOS) path 4
8547	UFM.UFM 4 SOS5	Ultrasonic Meter 4 Speed of Sound (SOS) path 5
8548	MB.SPARE	Ultrasonic Meter n Profile
8549	UFM.UFM_4_SYSSTATUS	Ultrasonic Meter status
8550	UFM.UFM 4 GAIN1A	Ultrasonic Meter gain A path 1
8551	UFM.UFM 4 GAIN2A	Ultrasonic Meter gain A path 2
8552	UFM.UFM 4 GAIN3A	Ultrasonic Meter gain A path 3
0002	OLIVI.OFIVI_4_GAIINOA	Olirasonic ivieter gain A patri s

Reg#	Variable	Description
8553	UFM.UFM 4 GAIN4A	Ultrasonic Meter gain A path 4
8554	UFM.UFM 4 GAIN5A	Ultrasonic Meter gain A path 5
8555	UFM.UFM 4 GAIN1B	Ultrasonic Meter gain B path 1
8556	UFM.UFM 4 GAIN2B	Ultrasonic Meter gain B path 2
8557	UFM.UFM 4 GAIN3B	Ultrasonic Meter gain B path 3
8558	UFM.UFM_4_GAIN4B	Ultrasonic Meter gain B path 4
8559	UFM.UFM_4_GAIN5B	Ultrasonic Meter gain B path 5
0500	LIEMLIEM 5 DODT	CWM Master Port connected to Ultrasonic Meter
8560	UFM.UFM_5_PORT	5
8561	UFM.UFM_5_ADDRESS	Address of Ultrasonic Meter 5
8562	UFM.UFM_5_TYPE	Ultrasonic Meter 5 Type Ultrasonic Meter 5 average Speed of Sound
8563	UFM.UFM_5_AVGSOS	(SOS) - all paths
8564	UFM.UFM 5 SOS1	Ultrasonic Meter 5 Speed of Sound (SOS) path 1
8565	UFM.UFM_5_SOS2	Ultrasonic Meter 5 Speed of Sound (SOS) path 2
8566	UFM.UFM_5_SOS3	Ultrasonic Meter 5 Speed of Sound (SOS) path 3
8567	UFM.UFM_5_SOS4	Ultrasonic Meter 5 Speed of Sound (SOS) path 4
8568	UFM.UFM_5_SOS5	Ultrasonic Meter 5 Speed of Sound (SOS) path 5
8569	MB.SPARE	Ultrasonic Meter n Profile
8570	UFM.UFM_5_SYSSTATUS	Ultrasonic Meter status
8571	UFM.UFM_5_GAIN1A	Ultrasonic Meter gain A path 1
8572	UFM.UFM_5_GAIN2A	Ultrasonic Meter gain A path 2
8573	UFM.UFM_5_GAIN3A	Ultrasonic Meter gain A path 3
8574	UFM.UFM_5_GAIN4A	Ultrasonic Meter gain A path 4
8575	UFM.UFM_5_GAIN5A	Ultrasonic Meter gain A path 5
8576	UFM.UFM_5_GAIN1B	Ultrasonic Meter gain B path 1
8577	UFM.UFM_5_GAIN2B	Ultrasonic Meter gain B path 2
8578	UFM.UFM_5_GAIN3B	Ultrasonic Meter gain B path 3
8579	UFM.UFM_5_GAIN4B	Ultrasonic Meter gain B path 4
8580	UFM.UFM_5_GAIN5B	Ultrasonic Meter gain B path 5
8581	UFM.UFM 6 PORT	CWM Master Port connected to Ultrasonic Meter 6
8582	UFM.UFM 6 ADDRESS	Address of Ultrasonic Meter 6
	UFM.UFM_6_TYPE	Ultrasonic Meter 6 Type
		Ultrasonic Meter 6 average Speed of Sound
8584	UFM.UFM_6_AVGSOS	(SOS) - all paths
8585	UFM.UFM_6_SOS1	Ultrasonic Meter 6 Speed of Sound (SOS) path 1
8586	UFM.UFM_6_SOS2	Ultrasonic Meter 6 Speed of Sound (SOS) path 2
8587	UFM.UFM_6_SOS3	Ultrasonic Meter 6 Speed of Sound (SOS) path 3
8588	UFM.UFM_6_SOS4	Ultrasonic Meter 6 Speed of Sound (SOS) path 4
8589	UFM.UFM_6_SOS5	Ultrasonic Meter 6 Speed of Sound (SOS) path 5
8590	MB.SPARE	Ultrasonic Meter n Profile
8591	UFM.UFM_6_SYSSTATUS	Ultrasonic Meter status
8592	UFM.UFM_6_GAIN1A	Ultrasonic Meter gain A path 1
8593	UFM.UFM_6_GAIN2A	Ultrasonic Meter gain A path 2
8594	UFM.UFM_6_GAIN3A	Ultrasonic Meter gain A path 3
8595	UFM.UFM_6_GAIN4A	Ultrasonic Meter gain A path 4
8596	UFM.UFM_6_GAIN5A	Ultrasonic Meter gain A path 5
8597	UFM.UFM_6_GAIN1B	Ultrasonic Meter gain B path 1
8598	UFM.UFM_6_GAIN2B	Ultrasonic Meter gain B path 2
8599	UFM.UFM_6_GAIN3B	Ultrasonic Meter gain B path 3

Reg#	Variable	Description
8600	UFM.UFM_6_GAIN4B	Ultrasonic Meter gain B path 4
8601	UFM.UFM 6 GAIN5B	Ultrasonic Meter gain B path 5
8602	PG_GC.GC_1.GC_1.FIXED_BTU	GC Dataset 1 Fixed BTU
8603	PG GC.GC 1.GC 1.FIXED SG	GC Dataset 1 Fixed Specific Gravity
8604	PG GC.GC 1.GC 1.FIXED N2	GC Dataset 1 Fixed N2
8605	PG GC.GC 1.GC 1.FIXED CO2	GC Dataset 1 Fixed CO2
8606	PG GC.GC 1.GC 1.FIXED CH4	GC Dataset 1 Fixed CH4
8607	PG_GC.GC_1.GC_1.FIXED_C2	GC Dataset 1 Fixed C2
8608	PG_GC.GC_1.GC_1.FIXED_C3	GC Dataset 1 Fixed C3
8609	PG_GC.GC_1.GC_1.FIXED_IC4	GC Dataset 1 Fixed IC4
8610	PG_GC.GC_1.GC_1.FIXED_NC4	GC Dataset 1 Fixed NC4
8611	PG_GC.GC_1.GC_1.FIXED_IC5	GC Dataset 1 Fixed IC5
8612	PG_GC.GC_1.GC_1.FIXED_NC5	GC Dataset 1 Fixed NC5
8613	PG GC.GC 1.GC 1.FIXED NC6	GC Dataset 1 Fixed NC6
8614	PG GC.GC 1.GC 1.FIXED NC7	GC Dataset 1 Fixed NC7
8615	PG GC.GC 1.GC 1.FIXED NC8	GC Dataset 1 Fixed NC8
8616	PG_GC.GC_1.GC_1.FIXED_NC9	GC Dataset 1 Fixed NC9
8617	PG_GC.GC_1.GC_1.FIXED_NC10	GC Dataset 1 Fixed NC10
8618	PG GC.GC 1.GC 1.FIXED H2O	GC Dataset 1 Fixed H2O
8619	PG_GC.GC_1.GC_1.FIXED_H2S	GC Dataset 1 Fixed H2S
8620	PG_GC.GC_1.GC_1.FIXED_H2	GC Dataset 1 Fixed H2
8621	PG_GC.GC_1.GC_1.FIXED_CO	GC Dataset 1 Fixed CO
8622	PG_GC.GC_1.GC_1.FIXED_02	GC Dataset 1 Fixed O2
8623	PG_GC.GC_1.GC_1.FIXED_HE	GC Dataset 1 Fixed He
8624	PG_GC.GC_1.GC_1.FIXED_AR	GC Dataset 1 Fixed Ar
8625	PG_GC.GC_1.GC_1.FIXED_C6PLUS	GC Dataset 1 Fixed C6 Plus
8626	PG_GC.GC_1.GC_1.FIXED_C9PLUS	GC Dataset 1 Fixed C9 Plus
8627	PG_GC.GC_1.GC_1.FIXED_BTUSAT	GC Dataset 1 Fixed Saturated BTU
8628	PG_GC.GC_1.GC_2.FIXED_BTU	GC Dataset 2 Fixed BTU
8629	PG_GC.GC_1.GC_2.FIXED_SG	GC Dataset 2 Fixed Specific Gravity
8630	PG_GC.GC_1.GC_2.FIXED_N2	GC Dataset 2 Fixed N2
8631	PG_GC.GC_1.GC_2.FIXED_CO2	GC Dataset 2 Fixed CO2
8632	PG_GC.GC_1.GC_2.FIXED_CH4	GC Dataset 2 Fixed CH4
8633	PG_GC.GC_1.GC_2.FIXED_C2	GC Dataset 2 Fixed C2
8634	PG_GC.GC_1.GC_2.FIXED_C3	GC Dataset 2 Fixed C3
8635	PG_GC.GC_1.GC_2.FIXED_IC4	GC Dataset 2 Fixed IC4
8636	PG_GC.GC_1.GC_2.FIXED_NC4	GC Dataset 2 Fixed NC4
8637	PG_GC.GC_1.GC_2.FIXED_IC5	GC Dataset 2 Fixed IC5
8638	PG_GC.GC_1.GC_2.FIXED_NC5	GC Dataset 2 Fixed NC5
8639	PG_GC.GC_1.GC_2.FIXED_NC6	GC Dataset 2 Fixed NC6
8640	PG_GC.GC_1.GC_2.FIXED_NC7	GC Dataset 2 Fixed NC7
8641	PG_GC.GC_1.GC_2.FIXED_NC8	GC Dataset 2 Fixed NC8
8642	PG_GC.GC_1.GC_2.FIXED_NC9	GC Dataset 2 Fixed NC9
8643	PG_GC.GC_1.GC_2.FIXED_NC10	GC Dataset 2 Fixed NC10
8644	PG_GC.GC_1.GC_2.FIXED_H2O	GC Dataset 2 Fixed H2O
8645	PG_GC.GC_1.GC_2.FIXED_H2S	GC Dataset 2 Fixed H2S
8646	PG_GC.GC_1.GC_2.FIXED_H2	GC Dataset 2 Fixed H2
8647	PG_GC.GC_1.GC_2.FIXED_CO	GC Dataset 2 Fixed CO
8648	PG_GC.GC_1.GC_2.FIXED_02	GC Dataset 2 Fixed O2
8649	PG_GC.GC_1.GC_2.FIXED_HE	GC Dataset 2 Fixed He

Reg#	Variable	Description
8650	PG GC.GC 1.GC 2.FIXED AR	GC Dataset 2 Fixed Ar
8651	PG_GC.GC_1.GC_2.FIXED_C6PLUS	GC Dataset 2 Fixed C6 Plus
8652	PG GC.GC 1.GC 2.FIXED C9PLUS	GC Dataset 2 Fixed C9 Plus
8653	PG GC.GC 1.GC 2.FIXED BTUSAT	GC Dataset 2 Fixed Saturated BTU
8654	PG GC.GC 1.GC 3.FIXED BTU	GC Dataset 3 Fixed BTU
8655	PG_GC.GC_1.GC_3.FIXED_SG	GC Dataset 3 Fixed Specific Gravity
8656	PG_GC.GC_1.GC_3.FIXED_N2	GC Dataset 3 Fixed N2
8657	PG GC.GC 1.GC 3.FIXED CO2	GC Dataset 3 Fixed CO2
8658	PG GC.GC 1.GC 3.FIXED CH4	GC Dataset 3 Fixed CH4
8659	PG GC.GC 1.GC 3.FIXED C2	GC Dataset 3 Fixed C2
8660	PG GC.GC 1.GC 3.FIXED C3	GC Dataset 3 Fixed C3
8661	PG_GC.GC_1.GC_3.FIXED_IC4	GC Dataset 3 Fixed IC4
8662	PG GC.GC 1.GC 3.FIXED NC4	GC Dataset 3 Fixed NC4
8663	PG GC.GC 1.GC 3.FIXED IC5	GC Dataset 3 Fixed IC5
8664	PG GC.GC 1.GC 3.FIXED NC5	GC Dataset 3 Fixed NC5
8665	PG GC.GC 1.GC 3.FIXED NC6	GC Dataset 3 Fixed NC6
8666	PG GC.GC 1.GC 3.FIXED NC7	GC Dataset 3 Fixed NC7
8667	PG GC.GC 1.GC 3.FIXED NC8	GC Dataset 3 Fixed NC8
8668	PG GC.GC 1.GC 3.FIXED NC9	GC Dataset 3 Fixed NC9
8669	PG GC.GC 1.GC 3.FIXED NC10	GC Dataset 3 Fixed NC10
8670	PG_GC.GC_1.GC_3.FIXED_H20	GC Dataset 3 Fixed H2O
8671	PG_GC.GC_1.GC_3.FIXED_H2S	GC Dataset 3 Fixed H2S
8672 8673	PG_GC.GC_1.GC_3.FIXED_H2 PG_GC.GC_1.GC_3.FIXED_CO	GC Dataset 3 Fixed H2 GC Dataset 3 Fixed CO
8674	PG_GC.GC_1.GC_3.FIXED_02	GC Dataset 3 Fixed O2 GC Dataset 3 Fixed He
8675 8676	PG_GC.GC_1.GC_3.FIXED_HE PG_GC.GC_1.GC_3.FIXED_AR	GC Dataset 3 Fixed He
8677	PG GC.GC 1.GC 3.FIXED C6PLUS	GC Dataset 3 Fixed Al
8678	PG GC.GC 1.GC 3.FIXED C9PLUS	GC Dataset 3 Fixed C0 Plus
8679	PG_GC.GC_1.GC_3.FIXED_C9FL03 PG_GC.GC_1.GC_3.FIXED_BTUSAT	GC Dataset 3 Fixed C9 Flus GC Dataset 3 Fixed Saturated BTU
8680	PG GC.GC 1.GC 4.FIXED BTU	GC Dataset 4 Fixed BTU
8681	PG GC.GC 1.GC 4.FIXED BTO PG GC.GC 1.GC 4.FIXED SG	GC Dataset 4 Fixed BTO GC Dataset 4 Fixed Specific Gravity
8682	PG GC.GC 1.GC 4.FIXED N2	GC Dataset 4 Fixed Specific Gravity GC Dataset 4 Fixed N2
8683	PG GC.GC 1.GC 4.FIXED CO2	GC Dataset 4 Fixed N2
8684	PG GC.GC 1.GC 4.FIXED CH4	GC Dataset 4 Fixed CO2 GC Dataset 4 Fixed CH4
8685	PG_GC.GC_1.GC_4.FIXED_C14 PG_GC.GC_1.GC_4.FIXED_C2	GC Dataset 4 Fixed C1
8686	PG GC.GC 1.GC 4.FIXED C3	GC Dataset 4 Fixed C2
8687		GC Dataset 4 Fixed IC4
8688	PG_GC.GC_1.GC_4.FIXED_IC4 PG_GC.GC_1.GC_4.FIXED_NC4	GC Dataset 4 Fixed IC4 GC Dataset 4 Fixed NC4
8689 8690	PG_GC.GC_1.GC_4.FIXED_IC5 PG_GC.GC_1.GC_4.FIXED_NC5	GC Dataset 4 Fixed IC5 GC Dataset 4 Fixed NC5
8691	PG_GC.GC_1.GC_4.FIXED_NC6	GC Dataset 4 Fixed NC5 GC Dataset 4 Fixed NC6
8692	PG GC.GC 1.GC 4.FIXED NC7	GC Dataset 4 Fixed NC7
8693	PG GC.GC 1.GC 4.FIXED NC7 PG GC.GC 1.GC 4.FIXED NC8	GC Dataset 4 Fixed NC7 GC Dataset 4 Fixed NC8
8694	PG_GC.GC_1.GC_4.FIXED_NC9	GC Dataset 4 Fixed NC9
8695		
	PG_GC.GC_1.GC_4.FIXED_NC10	GC Dataset 4 Fixed NC10
8696	PG_GC.GC_1.GC_4.FIXED_H20	GC Dataset 4 Fixed H2S
8697	PG_GC.GC_1.GC_4.FIXED_H2S	GC Dataset 4 Fixed H2
8698	PG GC.GC 1.GC 4.FIXED H2	GC Dataset 4 Fixed H2
8699	PG_GC.GC_1.GC_4.FIXED_CO	GC Dataset 4 Fixed CO

Reg#	Variable	Description
8700	PG GC.GC 1.GC 4.FIXED O2	GC Dataset 4 Fixed O2
8701	PG_GC.GC_1.GC_4.FIXED_HE	GC Dataset 4 Fixed He
8702	PG GC.GC 1.GC 4.FIXED AR	GC Dataset 4 Fixed Ar
8703	PG GC.GC 1.GC 4.FIXED C6PLUS	GC Dataset 4 Fixed C6 Plus
8704	PG GC.GC 1.GC 4.FIXED C9PLUS	GC Dataset 4 Fixed C9 Plus
8705	PG_GC.GC_1.GC_4.FIXED_BTUSAT	GC Dataset 4 Fixed Saturated BTU
8706	PG GC.GC 1.GC 5.FIXED BTU	GC Dataset 5 Fixed BTU
8707	PG GC.GC 1.GC 5.FIXED SG	GC Dataset 5 Fixed Specific Gravity
8708	PG GC.GC 1.GC 5.FIXED N2	GC Dataset 5 Fixed N2
8709	PG GC.GC 1.GC 5.FIXED CO2	GC Dataset 5 Fixed CO2
8710	PG GC.GC 1.GC 5.FIXED CH4	GC Dataset 5 Fixed CH4
8711	PG_GC.GC_1.GC_5.FIXED_C2	GC Dataset 5 Fixed C2
8712	PG GC.GC 1.GC 5.FIXED C3	GC Dataset 5 Fixed C3
8713	PG GC.GC 1.GC 5.FIXED IC4	GC Dataset 5 Fixed IC4
8714	PG GC.GC 1.GC 5.FIXED NC4	GC Dataset 5 Fixed NC4
8715	PG GC.GC 1.GC 5.FIXED IC5	GC Dataset 5 Fixed IC5
8716	PG GC.GC 1.GC 5.FIXED NC5	GC Dataset 5 Fixed NC5
8717	PG GC.GC 1.GC 5.FIXED NC6	GC Dataset 5 Fixed NC6
8718	PG GC.GC 1.GC 5.FIXED NC7	GC Dataset 5 Fixed NC7
8719	PG GC.GC 1.GC 5.FIXED NC8	GC Dataset 5 Fixed NC8
8720	PG GC.GC 1.GC 5.FIXED NC9	GC Dataset 5 Fixed NC9
8721	PG GC.GC 1.GC 5.FIXED NC10	GC Dataset 5 Fixed NC10
8722	PG GC.GC 1.GC 5.FIXED H2O	GC Dataset 5 Fixed H2O
8723	PG GC.GC 1.GC 5.FIXED H2S	GC Dataset 5 Fixed H2S
8724	PG GC.GC 1.GC 5.FIXED H2	GC Dataset 5 Fixed H2
8725	PG_GC.GC_1.GC_5.FIXED_CO	GC Dataset 5 Fixed CO
8726	PG_GC.GC_1.GC_5.FIXED_02	GC Dataset 5 Fixed O2
8727	PG_GC.GC_1.GC_5.FIXED_HE	GC Dataset 5 Fixed He
8728	PG_GC.GC_1.GC_5.FIXED_AR	GC Dataset 5 Fixed Ar
8729	PG_GC.GC_1.GC_5.FIXED_C6PLUS	GC Dataset 5 Fixed C6 Plus
8730	PG_GC.GC_1.GC_5.FIXED_C9PLUS	GC Dataset 5 Fixed C9 Plus
8731	PG_GC.GC_1.GC_5.FIXED_BTUSAT	GC Dataset 5 Fixed Saturated BTU
8732	PG_GC.GC_1.GC_6.FIXED_BTU	GC Dataset 6 Fixed BTU
8733	PG_GC.GC_1.GC_6.FIXED_SG	GC Dataset 6 Fixed Specific Gravity
8734	PG_GC.GC_1.GC_6.FIXED_N2	GC Dataset 6 Fixed N2
8735	PG_GC.GC_1.GC_6.FIXED_CO2	GC Dataset 6 Fixed CO2
8736	PG_GC.GC_1.GC_6.FIXED_CH4	GC Dataset 6 Fixed CH4
8737	PG_GC.GC_1.GC_6.FIXED_C2	GC Dataset 6 Fixed C2
8738	PG_GC.GC_1.GC_6.FIXED_C3	GC Dataset 6 Fixed C3
8739	PG_GC.GC_1.GC_6.FIXED_IC4	GC Dataset 6 Fixed IC4
8740	PG_GC.GC_1.GC_6.FIXED_NC4	GC Dataset 6 Fixed NC4
8741	PG_GC.GC_1.GC_6.FIXED_IC5	GC Dataset 6 Fixed IC5
8742	PG_GC.GC_1.GC_6.FIXED_NC5	GC Dataset 6 Fixed NC5
8743	PG_GC.GC_1.GC_6.FIXED_NC6	GC Dataset 6 Fixed NC6
8744	PG_GC.GC_1.GC_6.FIXED_NC7	GC Dataset 6 Fixed NC7
8745	PG_GC.GC_1.GC_6.FIXED_NC8	GC Dataset 6 Fixed NC8
8746	PG_GC.GC_1.GC_6.FIXED_NC9	GC Dataset 6 Fixed NC9
8747	PG_GC.GC_1.GC_6.FIXED_NC10	GC Dataset 6 Fixed NC10
8748	PG_GC.GC_1.GC_6.FIXED_H2O	GC Dataset 6 Fixed H2O
8749	PG_GC.GC_1.GC_6.FIXED_H2S	GC Dataset 6 Fixed H2S

Reg#	Variable	Description
8750	PG GC.GC 1.GC 6.FIXED H2	GC Dataset 6 Fixed H2
8751	PG_GC.GC_1.GC_6.FIXED_CO	GC Dataset 6 Fixed CO
8752	PG GC.GC 1.GC 6.FIXED 02	GC Dataset 6 Fixed O2
8753	PG GC.GC 1.GC 6.FIXED HE	GC Dataset 6 Fixed He
8754	PG GC.GC 1.GC 6.FIXED AR	GC Dataset 6 Fixed Ar
8755	PG_GC.GC_1.GC_6.FIXED_C6PLUS	GC Dataset 6 Fixed C6 Plus
8756	PG GC.GC 1.GC 6.FIXED C9PLUS	GC Dataset 6 Fixed C9 Plus
8757	PG GC.GC 1.GC 6.FIXED BTUSAT	GC Dataset 6 Fixed Saturated BTU
8758	PG GC.GC 1.GC 7.FIXED BTU	GC Dataset 7 Fixed BTU
8759	PG GC.GC 1.GC 7.FIXED SG	GC Dataset 7 Fixed Specific Gravity
8760	PG GC.GC 1.GC 7.FIXED N2	GC Dataset 7 Fixed N2
8761	PG_GC.GC_1.GC_7.FIXED_CO2	GC Dataset 7 Fixed CO2
8762	PG GC.GC 1.GC 7.FIXED CH4	GC Dataset 7 Fixed CH4
8763	PG GC.GC 1.GC 7.FIXED C2	GC Dataset 7 Fixed C2
8764	PG GC.GC 1.GC 7.FIXED C3	GC Dataset 7 Fixed C3
8765	PG GC.GC 1.GC 7.FIXED IC4	GC Dataset 7 Fixed IC4
8766	PG GC.GC 1.GC 7.FIXED NC4	GC Dataset 7 Fixed NC4
8767	PG GC.GC 1.GC 7.FIXED IC5	GC Dataset 7 Fixed IC5
8768	PG GC.GC 1.GC 7.FIXED NC5	GC Dataset 7 Fixed NC5
8769	PG GC.GC 1.GC 7.FIXED NC6	GC Dataset 7 Fixed NC6
8770	PG GC.GC 1.GC 7.FIXED NC7	GC Dataset 7 Fixed NC7
8771	PG GC.GC 1.GC 7.FIXED NC8	GC Dataset 7 Fixed NC8
8772	PG GC.GC 1.GC 7.FIXED NC9	GC Dataset 7 Fixed NC9
8773	PG GC.GC 1.GC 7.FIXED NC10	GC Dataset 7 Fixed NC10
8774	PG GC.GC 1.GC 7.FIXED H2O	GC Dataset 7 Fixed H2O
8775	PG GC.GC 1.GC 7.FIXED H2S	GC Dataset 7 Fixed H2S
8776	PG GC.GC 1.GC 7.FIXED H2	GC Dataset 7 Fixed H2
8777	PG GC.GC 1.GC 7.FIXED CO	GC Dataset 7 Fixed CO
8778	PG GC.GC 1.GC 7.FIXED O2	GC Dataset 7 Fixed O2
8779	PG_GC.GC_1.GC_7.FIXED_HE	GC Dataset 7 Fixed He
8780	PG GC.GC 1.GC 7.FIXED AR	GC Dataset 7 Fixed Ar
8781	PG_GC.GC_1.GC_7.FIXED_C6PLUS	GC Dataset 7 Fixed C6 Plus
8782	PG_GC.GC_1.GC_7.FIXED_C9PLUS	GC Dataset 7 Fixed C9 Plus
8783	PG_GC.GC_1.GC_7.FIXED_BTUSAT	GC Dataset 7 Fixed Saturated BTU
8784	PG_GC.GC_1.GC_8.FIXED_BTU	GC Dataset 8 Fixed BTU
8785	PG_GC.GC_1.GC_8.FIXED_SG	GC Dataset 8 Fixed Specific Gravity
8786	PG_GC.GC_1.GC_8.FIXED_N2	GC Dataset 8 Fixed N2
8787	PG_GC.GC_1.GC_8.FIXED_CO2	GC Dataset 8 Fixed CO2
8788	PG_GC.GC_1.GC_8.FIXED_CH4	GC Dataset 8 Fixed CH4
8789	PG_GC.GC_1.GC_8.FIXED_C2	GC Dataset 8 Fixed C2
8790	PG_GC.GC_1.GC_8.FIXED_C3	GC Dataset 8 Fixed C3
8791	PG_GC.GC_1.GC_8.FIXED_IC4	GC Dataset 8 Fixed IC4
8792	PG_GC.GC_1.GC_8.FIXED_NC4	GC Dataset 8 Fixed NC4
8793	PG_GC.GC_1.GC_8.FIXED_IC5	GC Dataset 8 Fixed IC5
8794	PG_GC.GC_1.GC_8.FIXED_NC5	GC Dataset 8 Fixed NC5
8795	PG_GC.GC_1.GC_8.FIXED_NC6	GC Dataset 8 Fixed NC6
8796	PG_GC.GC_1.GC_8.FIXED_NC7	GC Dataset 8 Fixed NC7
8797	PG_GC.GC_1.GC_8.FIXED_NC8	GC Dataset 8 Fixed NC8
8798	PG_GC.GC_1.GC_8.FIXED_NC9	GC Dataset 8 Fixed NC9
8799	PG_GC.GC_1.GC_8.FIXED_NC10	GC Dataset 8 Fixed NC10

8800 PG GC.GC. I.GC 8.FIXED H2D GC Dataset 8.Fixed H2D	Reg#	Variable	Description
8801 PG GC.GC 1.GC 8.FIXED H2S GC Dataset 8 Fixed H2S			•
8802 PG GC.GC GC S.FIXED H2			
8803			
8804 PG_GC.GC_1.GC_8.FIXED_O2 GC Dataset 8 Fixed O2 8805 PG_GC.GC_1.GC_8.FIXED_HE GC Dataset 8 Fixed He 8807 PG_GC.GC_1.GC_8.FIXED_AR GC Dataset 8 Fixed Ar 8808 PG_GC.GC_1.GC_8.FIXED_C6PLUS GC Dataset 8 Fixed C6 Plus 8809 PG_GC.GC_1.GC_8.FIXED_BTUSAT GC Dataset 8 Fixed C9 Plus 8810 MB_SPARE GC_Dataset 8 Fixed Saturated BTU 8811 MB_SPARE MB_SPARE 8812 MB_SPARE MB_SPARE 8813 MB_SPARE MB_SPARE 8814 MB_SPARE MB_SPARE 8815 MB_SPARE MB_SPARE 8816 MB_SPARE MB_SPARE 8817 MB_SPARE MB_SPARE 8818 MB_SPARE MB_SPARE 8820 MB_SPARE MB_SPARE 8821 MB_SPARE MB_SPARE 8822 MB_SPARE MB_SPARE 8823 MB_SPARE MB_SPARE 8824 MB_SPARE MB_SPARE 8825 MB_SPARE MB_SPARE <td></td> <td></td> <td> </td>			
8805 PG_GC.GC_1.GC_8.FIXED_HE GC Dataset 8 Fixed He 8806 PG_GC.GC_1.GC_8.FIXED_GPLUS GC Dataset 8 Fixed Ar 8808 PG_GC.GC_1.GC_8.FIXED_C6PLUS GC Dataset 8 Fixed C9 Plus 8809 PG_GC.GC_1.GC_8.FIXED_BTUSAT GC Dataset 8 Fixed Saturated BTU 8810 MB.SPARE BB10 8811 MB.SPARE BB11 8812 MB.SPARE BB11 8813 MB.SPARE BB12 8814 MB.SPARE BB14 8815 MB.SPARE BB16 8816 MB.SPARE BB17 8817 MB.SPARE BB18 8818 MB.SPARE BB18 8819 MB.SPARE BB20 8820 MB.SPARE BB20 8821 MB.SPARE BB20 8822 MB.SPARE BB22 8823 MB.SPARE BB22 8824 MB.SPARE BB22 8825 MB.SPARE BB22 8826 MB.SPARE BB22			
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8851	MB.SPARE	
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8901	MB.SPARE	
8902	MB.SPARE	
8903	MB.SPARE	
8904	MB.SPARE	
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8906	MB.SPARE	
8907	MB.SPARE	
8908	MB.SPARE	
8909	MB.SPARE	
8910	MB.SPARE	
8911	MB.SPARE	
8912	MB.SPARE	
8913	MB.SPARE	
8914	PG_GC.GC_1.GC_1.TIMED_AR	GC Dataset 1 Timed Ar
8915	PG_GC.GC_1.GC_1.TIMED_BTU	GC Dataset 1 Timed BTU
8916	PG_GC.GC_1.GC_1.TIMED_BTUSAT	GC Dataset 1 Timed Saturated BTU
8917	PG_GC.GC_1.GC_1.TIMED_C2	GC Dataset 1 Timed C2
8918	PG_GC.GC_1.GC_1.TIMED_C3	GC Dataset 1 Timed C3
8919	PG_GC.GC_1.GC_1.TIMED_C6PLUS	GC Dataset 1 Timed C6 Plus
8920	PG_GC.GC_1.GC_1.TIMED_C9PLUS	GC Dataset 1 Timed C9 Plus
8921	PG_GC.GC_1.GC_1.TIMED_CH4	GC Dataset 1 Timed CH4
8922	PG_GC.GC_1.GC_1.TIMED_CO	GC Dataset 1 Timed CO
8923	PG_GC.GC_1.GC_1.TIMED_CO2	GC Dataset 1 Timed CO2
8924	PG_GC.GC_1.GC_1.TIMED_H2	GC Dataset 1 Timed H2
8925	PG_GC.GC_1.GC_1.TIMED_H2O	GC Dataset 1 Timed H2O
8926	PG_GC.GC_1.GC_1.TIMED_H2S	GC Dataset 1 Timed H2S
8927	PG_GC.GC_1.GC_1.TIMED_HE	GC Dataset 1 Timed He
8928	PG_GC.GC_1.GC_1.TIMED_IC4	GC Dataset 1 Timed IC4
8929	PG_GC.GC_1.GC_1.TIMED_IC5	GC Dataset 1 Timed IC5
8930	PG_GC.GC_1.GC_1.TIMED_N2	GC Dataset 1 Timed N2
8931	PG_GC.GC_1.GC_1.TIMED_NC10	GC Dataset 1 Timed NC10
8932	PG_GC.GC_1.GC_1.TIMED_NC4	GC Dataset 1 Timed NC4
8933	PG_GC.GC_1.GC_1.TIMED_NC5	GC Dataset 1 Timed NC5
8934	PG_GC.GC_1.GC_1.TIMED_NC6	GC Dataset 1 Timed NC6
8935	PG_GC.GC_1.GC_1.TIMED_NC7	GC Dataset 1 Timed NC7
8936	PG_GC.GC_1.GC_1.TIMED_NC8	GC Dataset 1 Timed NC8
8937	PG_GC.GC_1.GC_1.TIMED_NC9	GC Dataset 1 Timed NC9
8938	PG_GC.GC_1.GC_1.TIMED_NEOC5	GC Dataset 1 Timed Neo C5
8939	PG_GC.GC_1.GC_1.TIMED_02	GC Dataset 1 Timed O2
8940	PG_GC.GC_1.GC_1.TIMED_SG	GC Dataset 1 Timed Specific Gravity
8941	MB.SPARE	Spare Register GC Dataset 1 Date for Timed Registers to be
8942	PG_GC.GC_1.GC_1.TIMED_DATE	copied to in use data
8943	PG_GC.GC_1.GC_1.TIMED_TIME	GC Dataset 1 Time for Timed Registers to be copied to in use data
8944	PG GC.GC 1.GC 2.TIMED AR	GC Dataset 2 Timed Ar
8945	PG_GC.GC_1.GC_2.TIMED_BTU	GC Dataset 2 Timed BTU
8946	PG_GC.GC_1.GC_2.TIMED_BTUSAT	GC Dataset 2 Timed Saturated BTU
8947	PG GC.GC 1.GC 2.TIMED C2	GC Dataset 2 Timed C2
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Reg#	Variable	Description
8948	PG GC.GC 1.GC 2.TIMED C3	GC Dataset 2 Timed C3
8949	PG GC.GC 1.GC 2.TIMED C6PLUS	GC Dataset 2 Timed G6 GC Dataset 2 Timed G6 GC Dataset 2 Timed G6 GC Dataset 2 Timed G6
8950	PG GC.GC 1.GC 2.TIMED C9PLUS	GC Dataset 2 Timed C9 Plus
8951	PG GC.GC 1.GC 2.TIMED CH4	GC Dataset 2 Timed CH4
8952	PG GC.GC 1.GC 2.TIMED CO	GC Dataset 2 Timed CO
8953	PG_GC.GC_1.GC_2.TIMED_CO2	GC Dataset 2 Timed CO2
8954	PG GC.GC 1.GC 2.TIMED H2	GC Dataset 2 Timed GO2 GC Dataset 2 Timed H2
8955	PG GC.GC 1.GC 2.TIMED H2O	GC Dataset 2 Timed H2O
8956	PG GC.GC 1.GC 2.TIMED H2S	GC Dataset 2 Timed H2S
8957	PG GC.GC 1.GC 2.TIMED HE	GC Dataset 2 Timed He
8958	PG GC.GC 1.GC 2.TIMED IC4	GC Dataset 2 Timed Te
8959	PG GC.GC 1.GC 2.TIMED IC5	GC Dataset 2 Timed IC4 GC Dataset 2 Timed IC5
8960	PG_GC.GC_1.GC_2.TIMED_N2	GC Dataset 2 Timed N2
8961	PG_GC.GC_1.GC_2.TIMED_NC10	GC Dataset 2 Timed NC10
8962	PG_GC.GC_1.GC_2.TIMED_NC4	GC Dataset 2 Timed NC4
8963	PG_GC.GC_1.GC_2.TIMED_NC5	GC Dataset 2 Timed NC5
8964	PG_GC.GC_1.GC_2.TIMED_NC6	GC Dataset 2 Timed NC6
8965	PG_GC.GC_1.GC_2.TIMED_NC7	GC Dataset 2 Timed NC7
8966	PG_GC.GC_1.GC_2.TIMED_NC8	GC Dataset 2 Timed NC8
8967	PG_GC.GC_1.GC_2.TIMED_NC9	GC Dataset 2 Timed NC9
8968	PG_GC.GC_1.GC_2.TIMED_NEOC5	GC Dataset 2 Timed Neo C5
8969	PG_GC.GC_1.GC_2.TIMED_O2	GC Dataset 2 Timed O2
8970	PG_GC.GC_1.GC_2.TIMED_SG	GC Dataset 2 Timed Specific Gravity
8971	MB.SPARE	Spare Register
8972	PG_GC.GC_1.GC_2.TIMED_DATE	GC Dataset 2 Date for Timed Registers to be copied to in use data
00.2	1 0_00.00_1.00_E.TIMEB_B/T/E	GC Dataset 2 Time for Timed Registers to be
8973	PG_GC.GC_1.GC_2.TIMED_TIME	copied to in use data
8974	PG_GC.GC_1.GC_3.TIMED_AR	GC Dataset 3 Timed Ar
8975	PG_GC.GC_1.GC_3.TIMED_BTU	GC Dataset 3 Timed BTU
8976	PG_GC.GC_1.GC_3.TIMED_BTUSAT	GC Dataset 3 Timed Saturated BTU
8977	PG_GC.GC_1.GC_3.TIMED_C2	GC Dataset 3 Timed C2
8978	PG_GC.GC_1.GC_3.TIMED_C3	GC Dataset 3 Timed C3
8979	PG_GC.GC_1.GC_3.TIMED_C6PLUS	GC Dataset 3 Timed C6 Plus
8980	PG_GC.GC_1.GC_3.TIMED_C9PLUS	GC Dataset 3 Timed C9 Plus
8981	PG_GC.GC_1.GC_3.TIMED_CH4	GC Dataset 3 Timed CH4
8982	PG_GC.GC_1.GC_3.TIMED_CO	GC Dataset 3 Timed CO
8983	PG_GC.GC_1.GC_3.TIMED_CO2	GC Dataset 3 Timed CO2
8984	PG_GC.GC_1.GC_3.TIMED_H2	GC Dataset 3 Timed H2
8985	PG_GC.GC_1.GC_3.TIMED_H2O	GC Dataset 3 Timed H2O
8986	PG_GC.GC_1.GC_3.TIMED_H2S	GC Dataset 3 Timed H2S
8987	PG_GC.GC_1.GC_3.TIMED_HE	GC Dataset 3 Timed He
8988	PG_GC.GC_1.GC_3.TIMED_IC4	GC Dataset 3 Timed IC4
8989	PG_GC.GC_1.GC_3.TIMED_IC5	GC Dataset 3 Timed IC5
8990	PG_GC.GC_1.GC_3.TIMED_N2	GC Dataset 3 Timed N2
8991	PG_GC.GC_1.GC_3.TIMED_NC10	GC Dataset 3 Timed NC10
8992	PG_GC.GC_1.GC_3.TIMED_NC4	GC Dataset 3 Timed NC4
8993	PG_GC.GC_1.GC_3.TIMED_NC5	GC Dataset 3 Timed NC5
8994	PG_GC.GC_1.GC_3.TIMED_NC6	GC Dataset 3 Timed NC6
8995	PG_GC.GC_1.GC_3.TIMED_NC7	GC Dataset 3 Timed NC7

Reg#	Variable	Description
8996	PG GC.GC 1.GC 3.TIMED NC8	GC Dataset 3 Timed NC8
8997	PG GC.GC 1.GC 3.TIMED NC9	GC Dataset 3 Timed NC9
8998	PG GC.GC 1.GC 3.TIMED NEOC5	GC Dataset 3 Timed Neo C5
8999	PG GC.GC 1.GC 3.TIMED O2	GC Dataset 3 Timed O2
9000	PG GC.GC 1.GC 3.TIMED SG	GC Dataset 3 Timed Specific Gravity
9001	MB.SPARE	Spare Register
		GC Dataset 3 Date for Timed Registers to be
9002	PG_GC.GC_1.GC_3.TIMED_DATE	copied to in use data
9003	PG_GC.GC_1.GC_3.TIMED_TIME	GC Dataset 3 Time for Timed Registers to be copied to in use data
9004	PG GC.GC 1.GC 4.TIMED AR	GC Dataset 4 Timed Ar
9005	PG GC.GC 1.GC 4.TIMED BTU	GC Dataset 4 Timed BTU
9006	PG GC.GC 1.GC 4.TIMED BTUSAT	GC Dataset 4 Timed Saturated BTU
9007	PG GC.GC 1.GC 4.TIMED C2	GC Dataset 4 Timed C2
9008	PG GC.GC 1.GC 4.TIMED C3	GC Dataset 4 Timed C3
9009	PG GC.GC 1.GC 4.TIMED C6PLUS	GC Dataset 4 Timed C6 Plus
9010	PG GC.GC 1.GC 4.TIMED C9PLUS	GC Dataset 4 Timed C9 Plus
9011	PG GC.GC 1.GC 4.TIMED CH4	GC Dataset 4 Timed CH4
9012	PG GC.GC 1.GC 4.TIMED CO	GC Dataset 4 Timed CO
9013	PG GC.GC 1.GC 4.TIMED CO2	GC Dataset 4 Timed CO2
9014	PG GC.GC 1.GC 4.TIMED H2	GC Dataset 4 Timed H2
9015	PG GC.GC 1.GC 4.TIMED H2O	GC Dataset 4 Timed H2O
9016	PG GC.GC 1.GC 4.TIMED H2S	GC Dataset 4 Timed H2S
9017	PG_GC.GC_1.GC_4.TIMED_HE	GC Dataset 4 Timed He
9018	PG GC.GC 1.GC 4.TIMED IC4	GC Dataset 4 Timed IC4
9019	PG GC.GC 1.GC 4.TIMED IC5	GC Dataset 4 Timed IC5
9020	PG GC.GC 1.GC 4.TIMED N2	GC Dataset 4 Timed N2
9021	PG GC.GC 1.GC 4.TIMED NC10	GC Dataset 4 Timed NC10
9022	PG GC.GC 1.GC 4.TIMED NC4	GC Dataset 4 Timed NC4
9023	PG GC.GC 1.GC 4.TIMED NC5	GC Dataset 4 Timed NC5
9024	PG GC.GC 1.GC 4.TIMED NC6	GC Dataset 4 Timed NC6
9025	PG_GC.GC_1.GC_4.TIMED_NC7	GC Dataset 4 Timed NC7
9026	PG GC.GC 1.GC 4.TIMED NC8	GC Dataset 4 Timed NC8
9027	PG_GC.GC_1.GC_4.TIMED_NC9	GC Dataset 4 Timed NC9
9028	PG GC.GC 1.GC 4.TIMED NEOC5	GC Dataset 4 Timed Neo C5
9029	PG_GC.GC_1.GC_4.TIMED_02	GC Dataset 4 Timed O2
9030	PG_GC.GC_1.GC_4.TIMED_SG	GC Dataset 4 Timed Specific Gravity
9031	MB.SPARE	Spare Register
		GC Dataset 4 Date for Timed Registers to be
9032	PG_GC.GC_1.GC_4.TIMED_DATE	copied to in use data
9033	PG_GC.GC_1.GC_4.TIMED_TIME	GC Dataset 4 Time for Timed Registers to be copied to in use data
9034	PG GC.GC 1.GC 5.TIMED AR	GC Dataset 5 Timed Ar
9035	PG_GC.GC_1.GC_5.TIMED_BTU	GC Dataset 5 Timed BTU
9036	PG_GC.GC_1.GC_5.TIMED_BTUSAT	GC Dataset 5 Timed Saturated BTU
9037	PG_GC.GC_1.GC_5.TIMED_C2	GC Dataset 5 Timed C2
9038	PG_GC.GC_1.GC_5.TIMED_C3	GC Dataset 5 Timed C3
9039	PG_GC.GC_1.GC_5.TIMED_C6PLUS	GC Dataset 5 Timed C6 Plus
9040	PG_GC.GC_1.GC_5.TIMED_C9PLUS	GC Dataset 5 Timed C9 Plus
9041	PG_GC.GC_1.GC_5.TIMED_CH4	GC Dataset 5 Timed CH4
9042	PG_GC.GC_1.GC_5.TIMED_CO	GC Dataset 5 Timed CO

Reg#	Variable	Description
9043	PG GC.GC 1.GC 5.TIMED CO2	GC Dataset 5 Timed CO2
9044	PG GC.GC 1.GC 5.TIMED H2	GC Dataset 5 Timed GC2
9045	PG GC.GC 1.GC 5.TIMED H2O	GC Dataset 5 Timed H2O
9046	PG GC.GC 1.GC 5.TIMED H2S	GC Dataset 5 Timed H2S
9047	PG GC.GC 1.GC 5.TIMED HE	GC Dataset 5 Timed He
9047	PG GC.GC 1.GC 5.TIMED_TIE	GC Dataset 5 Timed IC4
9049	PG GC.GC 1.GC 5.TIMED IC5	GC Dataset 5 Timed IC5
9049	PG GC.GC 1.GC 5.TIMED N2	GC Dataset 5 Timed IC5 GC Dataset 5 Timed N2
9051	PG GC.GC 1.GC 5.TIMED NC10	GC Dataset 5 Timed NC10
9051	PG GC.GC 1.GC 5.TIMED_NC10	GC Dataset 5 Timed NC4
9052	PG GC.GC 1.GC 5.TIMED NC5	GC Dataset 5 Timed NC5
9053	PG GC.GC 1.GC 5.TIMED NC6	GC Dataset 5 Timed NC6
9055	PG_GC.GC_1.GC_5.TIMED_NC7	GC Dataset 5 Timed NC7 GC Dataset 5 Timed NC8
9056	PG_GC.GC_1.GC_5.TIMED_NC8	
9057	PG_GC.GC_1.GC_5.TIMED_NC9	GC Dataset 5 Timed NC9
9058	PG_GC.GC_1.GC_5.TIMED_NEOC5	GC Dataset 5 Timed Neo C5
9059	PG_GC.GC_1.GC_5.TIMED_02	GC Dataset 5 Timed O2
9060	PG_GC.GC_1.GC_5.TIMED_SG	GC Dataset 5 Timed Specific Gravity
9061	MB.SPARE	Spare Register GC Dataset 5 Date for Timed Registers to be
9062	PG_GC.GC_1.GC_5.TIMED_DATE	copied to in use data
		GC Dataset 5 Time for Timed Registers to be
9063	PG_GC.GC_1.GC_5.TIMED_TIME	copied to in use data
9064	PG_GC.GC_1.GC_6.TIMED_AR	GC Dataset 6 Timed Ar
9065	PG_GC.GC_1.GC_6.TIMED_BTU	GC Dataset 6 Timed BTU
9066	PG_GC.GC_1.GC_6.TIMED_BTUSAT	GC Dataset 6 Timed Saturated BTU
9067	PG_GC.GC_1.GC_6.TIMED_C2	GC Dataset 6 Timed C2
9068	PG_GC.GC_1.GC_6.TIMED_C3	GC Dataset 6 Timed C3
9069	PG_GC.GC_1.GC_6.TIMED_C6PLUS	GC Dataset 6 Timed C6 Plus
9070	PG_GC.GC_1.GC_6.TIMED_C9PLUS	GC Dataset 6 Timed C9 Plus
9071	PG_GC.GC_1.GC_6.TIMED_CH4	GC Dataset 6 Timed CH4
9072	PG_GC.GC_1.GC_6.TIMED_CO	GC Dataset 6 Timed CO
9073	PG_GC.GC_1.GC_6.TIMED_CO2	GC Dataset 6 Timed CO2
9074	PG_GC.GC_1.GC_6.TIMED_H2	GC Dataset 6 Timed H2
9075	PG_GC.GC_1.GC_6.TIMED_H2O	GC Dataset 6 Timed H2O
9076	PG_GC.GC_1.GC_6.TIMED_H2S	GC Dataset 6 Timed H2S
9077	PG_GC.GC_1.GC_6.TIMED_HE	GC Dataset 6 Timed He
9078	PG_GC.GC_1.GC_6.TIMED_IC4	GC Dataset 6 Timed IC4
9079	PG_GC.GC_1.GC_6.TIMED_IC5	GC Dataset 6 Timed IC5
9080	PG_GC.GC_1.GC_6.TIMED_N2	GC Dataset 6 Timed N2
9081	PG_GC.GC_1.GC_6.TIMED_NC10	GC Dataset 6 Timed NC10
9082	PG_GC.GC_1.GC_6.TIMED_NC4	GC Dataset 6 Timed NC4
9083	PG_GC.GC_1.GC_6.TIMED_NC5	GC Dataset 6 Timed NC5
9084	PG_GC.GC_1.GC_6.TIMED_NC6	GC Dataset 6 Timed NC6
9085	PG_GC.GC_1.GC_6.TIMED_NC7	GC Dataset 6 Timed NC7
9086	PG_GC.GC_1.GC_6.TIMED_NC8	GC Dataset 6 Timed NC8
9087	PG_GC.GC_1.GC_6.TIMED_NC9	GC Dataset 6 Timed NC9
9088	PG_GC.GC_1.GC_6.TIMED_NEOC5	GC Dataset 6 Timed Neo C5
9089	PG_GC.GC_1.GC_6.TIMED_O2	GC Dataset 6 Timed O2
9090	PG_GC.GC_1.GC_6.TIMED_SG	GC Dataset 6 Timed Specific Gravity

Reg#	Variable	Description
9091	MB.SPARE	Spare Register
		GC Dataset 6 Date for Timed Registers to be
9092	PG_GC.GC_1.GC_6.TIMED_DATE	copied to in use data
0000	DO CO CO 4 CO CTIMED TIME	GC Dataset 6 Time for Timed Registers to be
9093	PG_GC.GC_1.GC_6.TIMED_TIME	copied to in use data
9094	PG_GC.GC_1.GC_7.TIMED_AR	GC Dataset 7 Timed Ar
9095	PG_GC.GC_1.GC_7.TIMED_BTU	GC Dataset 7 Timed BTU
9096	PG_GC.GC_1.GC_7.TIMED_BTUSAT	GC Dataset 7 Timed Saturated BTU
9097	PG_GC.GC_1.GC_7.TIMED_C2	GC Dataset 7 Timed C2
9098	PG_GC.GC_1.GC_7.TIMED_C3	GC Dataset 7 Timed C3
9099	PG_GC.GC_1.GC_7.TIMED_C6PLUS	GC Dataset 7 Timed C6 Plus
9100	PG_GC.GC_1.GC_7.TIMED_C9PLUS	GC Dataset 7 Timed C9 Plus
9101	PG_GC.GC_1.GC_7.TIMED_CH4	GC Dataset 7 Timed CH4
9102	PG_GC.GC_1.GC_7.TIMED_CO	GC Dataset 7 Timed CO
9103	PG_GC.GC_1.GC_7.TIMED_CO2	GC Dataset 7 Timed CO2
9104	PG_GC.GC_1.GC_7.TIMED_H2	GC Dataset 7 Timed H2
9105	PG_GC.GC_1.GC_7.TIMED_H2O	GC Dataset 7 Timed H2O
9106	PG_GC.GC_1.GC_7.TIMED_H2S	GC Dataset 7 Timed H2S
9107	PG_GC.GC_1.GC_7.TIMED_HE	GC Dataset 7 Timed He
9108	PG_GC.GC_1.GC_7.TIMED_IC4	GC Dataset 7 Timed IC4
9109	PG_GC.GC_1.GC_7.TIMED_IC5	GC Dataset 7 Timed IC5
9110	PG_GC.GC_1.GC_7.TIMED_N2	GC Dataset 7 Timed N2
9111	PG_GC.GC_1.GC_7.TIMED_NC10	GC Dataset 7 Timed NC10
9112	PG_GC.GC_1.GC_7.TIMED_NC4	GC Dataset 7 Timed NC4
9113	PG_GC.GC_1.GC_7.TIMED_NC5	GC Dataset 7 Timed NC5
9114	PG_GC.GC_1.GC_7.TIMED_NC6	GC Dataset 7 Timed NC6
9115	PG_GC.GC_1.GC_7.TIMED_NC7	GC Dataset 7 Timed NC7
9116	PG_GC.GC_1.GC_7.TIMED_NC8	GC Dataset 7 Timed NC8
9117	PG_GC.GC_1.GC_7.TIMED_NC9	GC Dataset 7 Timed NC9
9118	PG_GC.GC_1.GC_7.TIMED_NEOC5	GC Dataset 7 Timed Neo C5
9119	PG_GC.GC_1.GC_7.TIMED_O2	GC Dataset 7 Timed O2
9120	PG_GC.GC_1.GC_7.TIMED_SG	GC Dataset 7 Timed Specific Gravity
9121	MB.SPARE	Spare Register
		GC Dataset 7 Date for Timed Registers to be
9122	PG_GC.GC_1.GC_7.TIMED_DATE	copied to in use data
9123	PG GC.GC 1.GC 7.TIMED TIME	GC Dataset 7 Time for Timed Registers to be copied to in use data
9124	PG_GC.GC_1.GC_8.TIMED_AR	GC Dataset 8 Timed Ar
9125	PG GC.GC 1.GC 8.TIMED BTU	GC Dataset 8 Timed BTU
9125	PG_GC.GC_1.GC_8.TIMED_BTUSAT	GC Dataset 8 Timed Saturated BTU
	PG_GC.GC_1.GC_6.TIMED_BTUSAT PG_GC.GC_1.GC_8.TIMED_C2	
9127		GC Dataset 8 Timed C2
9128	PG_GC.GC_1.GC_8.TIMED_C3	GC Dataset 8 Timed C6 Plus
9129	PG_GC.GC_1.GC_8.TIMED_C6PLUS	GC Dataset 8 Timed C6 Plus
9130	PG_GC.GC_1.GC_8.TIMED_C9PLUS	GC Dataset 8 Timed CU4
9131	PG_GC.GC_1.GC_8.TIMED_CH4	GC Dataset 8 Timed CH4
9132	PG_GC.GC_1.GC_8.TIMED_CO	GC Dataset 8 Timed CO
9133	PG_GC.GC_1.GC_8.TIMED_CO2	GC Dataset 8 Timed CO2
9134	PG_GC.GC_1.GC_8.TIMED_H2	GC Dataset 8 Timed H2
9135	PG_GC.GC_1.GC_8.TIMED_H2O	GC Dataset 8 Timed H2O
9136	PG_GC.GC_1.GC_8.TIMED_H2S	GC Dataset 8 Timed H2S
9137	PG_GC.GC_1.GC_8.TIMED_HE	GC Dataset 8 Timed He

Reg#	Variable	Description
9138	PG GC.GC 1.GC 8.TIMED IC4	GC Dataset 8 Timed IC4
9139	PG GC.GC 1.GC 8.TIMED IC5	GC Dataset 8 Timed IC5
9140	PG GC.GC 1.GC 8.TIMED N2	GC Dataset 8 Timed N2
9141	PG GC.GC 1.GC 8.TIMED NC10	GC Dataset 8 Timed NC10
9142	PG GC.GC 1.GC 8.TIMED NC4	GC Dataset 8 Timed NC4
9143	PG GC.GC 1.GC 8.TIMED NC5	GC Dataset 8 Timed NC5
9144	PG GC.GC 1.GC 8.TIMED NC6	GC Dataset 8 Timed NC6
9145	PG_GC.GC_1.GC_8.TIMED_NC7	GC Dataset 8 Timed NC7
9146	PG GC.GC 1.GC 8.TIMED NC8	GC Dataset 8 Timed NC8
9147	PG GC.GC 1.GC 8.TIMED NC9	GC Dataset 8 Timed NC9
9148	PG GC.GC 1.GC 8.TIMED NEOC5	GC Dataset 8 Timed Neo C5
9149	PG GC.GC 1.GC 8.TIMED 02	GC Dataset 8 Timed Neo C3
9150	PG GC.GC 1.GC 8.TIMED SG	GC Dataset 8 Timed O2 GC Dataset 8 Timed Specific Gravity
9151	MB.SPARE	Spare Register
9131	WD.SPARE	GC Dataset 8 Date for Timed Registers to be
9152	PG_GC.GC_1.GC_8.TIMED_DATE	copied to in use data
		GC Dataset 8 Time for Timed Registers to be
9153	PG_GC.GC_1.GC_8.TIMED_TIME	copied to in use data
9154	MB.SPARE	
9155	MB.SPARE	
9156	MB.SPARE	
9157	MB.SPARE	
9158	MB.SPARE	
9159	MB.SPARE	
9160	MB.SPARE	
9161	MB.SPARE	
9162	MB.SPARE	
9163	MB.SPARE	
9164	MB.SPARE	
9165	MB.SPARE	
9166	MB.SPARE	
9167	MB.SPARE	
9168	MB.SPARE	
9169	MB.SPARE	
9170	MB.SPARE	
9171	MB.SPARE	
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9182	MB.SPARE	
9183	MB.SPARE	
9184	MB.SPARE	
9185	MB.SPARE	

Reg#	Variable	Description
9186	MB.SPARE	
9187	MB.SPARE	
9188	MB.SPARE	
9189	MB.SPARE	
9190	MB.SPARE	
9191	MB.SPARE	
9192	MB.SPARE	
9193	MB.SPARE	
9194	MB.SPARE	
9195	MB.SPARE	
9196	MB.SPARE	
9197	MB.SPARE	
9198	MB.SPARE	
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9200	MB.SPARE	
9201	MB.SPARE	
9202	MB.SPARE	
9203	MB.SPARE	
9204	MB.SPARE	
9205	MB.SPARE	
9206	MB.SPARE	
9207	MB.SPARE	
9208	MB.SPARE	
9209	MB.SPARE	
9210	MB.SPARE	
9211	MB.SPARE	
9212	MB.SPARE	
9213	MB.SPARE	
9214	MB.SPARE	
9215	MB.SPARE	
9216	MB.SPARE	
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9218	MB.SPARE	
9219	MB.SPARE	
9220	MB.SPARE	
9221	MB.SPARE	
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9223	MB.SPARE	
9224	MB.SPARE	
9225	MB.SPARE	
9226	MB.SPARE	
9227	MB.SPARE	
9228	MB.SPARE	
9229	MB.SPARE	
9230	MB.SPARE	
9231	MB.SPARE	
9232	MB.SPARE	
9233	MB.SPARE	
9234	MB.SPARE	
9235	MB.SPARE	

Reg#	Variable	Description
9236	MB.SPARE	
9237	MB.SPARE	
9238	MB.SPARE	
9239	MB.SPARE	
9240	MB.SPARE	
9241	MB.SPARE	
9242	MB.SPARE	
9243	MB.SPARE	
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9245	MB.SPARE	
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9247	MB.SPARE	
9248	MB.SPARE	
9249	MB.SPARE	
9250	MB.SPARE	
9251	MB.SPARE	
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9253	MB.SPARE	
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9255	MB.SPARE	
9256	MB.SPARE	
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9258	MB.SPARE	
9259	MB.SPARE	
9260	MB.SPARE	
9261	MB.SPARE	
9262	MB.SPARE	
9263	MB.SPARE	
9264	MB.SPARE	
9265	MB.SPARE	
9266	MB.SPARE	
9267	MB.SPARE	
9268	MB.SPARE	
9269	MB.SPARE	
9270	MB.SPARE	
9271	MB.SPARE	
9272	MB.SPARE	
9273	MB.SPARE	
9274	PG_GC.GC_1.USER1CODE_AR	
9275	MB.SPARE	
9276	MB.SPARE	
9277	PG_GC.GC_1.USER1CODE_C2	
9278	PG_GC.GC_1.USER1CODE_C3	
9279	PG_GC.GC_1.USER1CODE_C6PLUS	
9280	PG_GC.GC_1.USER1CODE_C9PLUS	
9281	PG_GC.GC_1.USER1CODE_CH4	
9282	PG_GC.GC_1.USER1CODE_CO	
9283	PG_GC.GC_1.USER1CODE_CO2	
9284	PG_GC.GC_1.USER1CODE_H2	
9285	PG_GC.GC_1.USER1CODE_H2O	

Reg#	Variable	Description
9286	PG GC.GC 1.USER1CODE H2S	
9287	PG GC.GC 1.USER1CODE HE	
9288	PG GC.GC 1.USER1CODE IC4	
9289	PG GC.GC 1.USER1CODE IC5	
9290	PG GC.GC 1.USER1CODE N2	
9291	PG GC.GC 1.USER1CODE NC10	
9292	PG GC.GC 1.USER1CODE NC4	
9292	PG GC.GC 1.USER1CODE NC5	
9293	PG GC.GC 1.USER1CODE NC6	
9294	PG GC.GC 1.USER1CODE NC7	
9295	PG GC.GC 1.USER1CODE NC8	
9290	PG GC.GC 1.USER1CODE NC9	
9298	PG_GC.GC_1.USER1CODE_NEOC5	
9299	PG_GC.GC_1.USER1CODE_O2	
9300	MB.SPARE	
9301	MB.SPARE	GC Dataset 1 Minimum Limit for total sum of all
9302	PG_GC.GC_1.GC_1.TOTAL_MIN	components
		GC Dataset 1 Maximum Limit for total sum of all
9303	PG_GC.GC_1.GC_1.TOTAL_MAX	components
9304	PG_GC.GC_1.GC_1.S1_BTU_MIN	GC Dataset 1 Minimum Limit for BTU
9305	PG_GC.GC_1.GC_1.S1_BTU_MAX	GC Dataset 1 Maximum Limit for BTU
9306	PG_GC.GC_1.GC_1.S1_SG_MIN	GC Dataset 1 Minimum Limit for Specifc Gravity
9307	PG_GC.GC_1.GC_1.S1_SG_MAX	GC Dataset 1 Maximum Limit for Specifc Gravity
9308	PG_GC.GC_1.GC_1.S1_N2_MIN	GC Dataset 1 Minimum Limit for Nitrogen
9309	PG_GC.GC_1.GC_1.S1_N2_MAX	GC Dataset 1 Maximum Limit for Nitrogen
9310	PG_GC.GC_1.GC_1.S1_CO2_MIN	GC Dataset 1 Minimum Limit for CO2
9311	PG_GC.GC_1.GC_1.S1_CO2_MAX	GC Dataset 1 Maximum Limit for CO2
9312	PG_GC.GC_1.GC_1.S1_CH4_MIN	GC Dataset 1 Minimum Limit for Methane
9313	PG_GC.GC_1.GC_1.S1_CH4_MAX	GC Dataset 1 Maximum Limit for Methane
9314	PG_GC.GC_1.GC_1.S1_C2_MIN	GC Dataset 1 Minimum Limit for C2
9315	PG_GC.GC_1.GC_1.S1_C2_MAX	GC Dataset 1 Maximum Limit for C2
9316	PG_GC.GC_1.GC_1.S1_C3_MIN	GC Dataset 1 Minimum Limit for C3
9317	PG_GC.GC_1.GC_1.S1_C3_MAX	GC Dataset 1 Maximum Limit for C3
9318	PG_GC.GC_1.GC_1.S1_IC4_MIN	GC Dataset 1 Minimum Limit for IC4
9319	PG_GC.GC_1.GC_1.S1_IC4_MAX	GC Dataset 1 Maximum Limit for IC4
9320	PG_GC.GC_1.GC_1.S1_NC4_MIN	GC Dataset 1 Minimum Limit for NC4
9321	PG_GC.GC_1.GC_1.S1_NC4_MAX	GC Dataset 1 Maximum Limit for NC4
9322	PG_GC.GC_1.GC_1.S1_NEOC5_MIN	GC Dataset 1 Minimum Limit for Neo C5
9323	PG_GC.GC_1.GC_1.S1_NEOC5_MAX	GC Dataset 1 Maximum Limit for Neo C5
9324	PG_GC.GC_1.GC_1.S1_IC5_MIN	GC Dataset 1 Minimum Limit for IC5
9325	PG_GC.GC_1.GC_1.S1_IC5_MAX	GC Dataset 1 Maximum Limit for IC5
9326	PG_GC.GC_1.GC_1.S1_NC5_MIN	GC Dataset 1 Minimum Limit for NC5
9327	PG_GC.GC_1.GC_1.S1_NC5_MAX	GC Dataset 1 Maximum Limit for NC5
9328	PG_GC.GC_1.GC_1.S1_NC6_MIN	GC Dataset 1 Minimum Limit for NC6
9329	PG_GC.GC_1.GC_1.S1_NC6_MAX	GC Dataset 1 Maximum Limit for NC6
9330	PG_GC.GC_1.GC_1.S1_NC7_MIN	GC Dataset 1 Minimum Limit for NC7
9331	PG_GC.GC_1.GC_1.S1_NC7_MAX	GC Dataset 1 Maximum Limit for NC7
9332	PG_GC.GC_1.GC_1.S1_NC8_MIN	GC Dataset 1 Minimum Limit for NC8
9333	PG GC.GC 1.GC 1.S1 NC8 MAX	GC Dataset 1 Maximum Limit for NC8
9324 9325 9326 9327 9328 9329 9330 9331 9332	PG GC.GC 1.GC 1.S1 IC5 MIN PG GC.GC 1.GC 1.S1 IC5 MAX PG GC.GC 1.GC 1.S1 NC5 MIN PG GC.GC 1.GC 1.S1 NC5 MAX PG GC.GC 1.GC 1.S1 NC6 MIN PG GC.GC 1.GC 1.S1 NC6 MAX PG GC.GC 1.GC 1.S1 NC7 MIN PG GC.GC 1.GC 1.S1 NC7 MIN PG GC.GC 1.GC 1.S1 NC7 MAX PG GC.GC 1.GC 1.S1 NC8 MIN	GC Dataset 1 Maximum Limit for IC5 GC Dataset 1 Minimum Limit for NC5 GC Dataset 1 Maximum Limit for NC5 GC Dataset 1 Minimum Limit for NC6 GC Dataset 1 Maximum Limit for NC6 GC Dataset 1 Minimum Limit for NC7 GC Dataset 1 Maximum Limit for NC7 GC Dataset 1 Minimum Limit for NC7

Reg#	Variable	Description
9334	PG_GC.GC_1.GC_1.S1_NC9_MIN	GC Dataset 1 Minimum Limit for NC9
9335	PG GC.GC 1.GC 1.S1 NC9 MAX	GC Dataset 1 Maximum Limit for NC9
9336	PG GC.GC 1.GC 1.S1 NC10 MIN	GC Dataset 1 Minimum Limit for NC10
9337	PG GC.GC 1.GC 1.S1 NC10 MAX	GC Dataset 1 Maximum Limit for NC10
9338	PG GC.GC 1.GC 1.S1 H2O MIN	GC Dataset 1 Minimum Limit for H2O
9339	PG_GC.GC_1.GC_1.S1_H2O_MAX	GC Dataset 1 Maximum Limit for H2O
9340	PG GC.GC 1.GC 1.S1 H2S MIN	GC Dataset 1 Minimum Limit for H2S
9341	PG GC.GC 1.GC 1.S1 H2S MAX	GC Dataset 1 Maximum Limit for H2S
9342	PG GC.GC 1.GC 1.S1 H2 MIN	GC Dataset 1 Minimum Limit for H2
9343	PG GC.GC 1.GC 1.S1 H2 MAX	GC Dataset 1 Maximum Limit for H2
9344	PG GC.GC 1.GC 1.S1 CO MIN	GC Dataset 1 Minimum Limit for CO
9345	PG GC.GC 1.GC 1.S1 CO MAX	GC Dataset 1 Maximum Limit for CO
9346	PG GC.GC 1.GC 1.S1 O2 MIN	GC Dataset 1 Maximum Limit for O2
9347	PG GC.GC 1.GC 1.S1 O2 MAX	GC Dataset 1 Maximum Limit for O2
9348	PG GC.GC 1.GC 1.S1 D2 MAX PG GC.GC 1.GC 1.S1 HE MIN	GC Dataset 1 Maximum Limit for He
		GC Dataset 1 Maximum Limit for He
9349	PG_GC.GC_1.GC_1.S1_HE_MAX	
9350	PG_GC.GC_1.GC_1.S1_AR_MIN	GC Dataset 1 Manimum Limit for Ar
9351	PG_GC.GC_1.GC_1.S1_AR_MAX	GC Dataset 1 Maximum Limit for Ar GC Dataset 2 Minimum Limit for total sum of all
9352	PG_GC.GC_1.GC_2.TOTAL_MIN	components
		GC Dataset 2 Maximum Limit for total sum of all
9353	PG_GC.GC_1.GC_2.TOTAL_MAX	components
9354	PG_GC.GC_1.GC_2.S1_BTU_MIN	GC Dataset 2 Minimum Limit for BTU
9355	PG_GC.GC_1.GC_2.S1_BTU_MAX	GC Dataset 2 Maximum Limit for BTU
9356	PG_GC.GC_1.GC_2.S1_SG_MIN	GC Dataset 2 Minimum Limit for Specifc Gravity
9357	PG_GC.GC_1.GC_2.S1_SG_MAX	GC Dataset 2 Maximum Limit for Specifc Gravity
9358	PG_GC.GC_1.GC_2.S1_N2_MIN	GC Dataset 2 Minimum Limit for Nitrogen
9359	PG_GC.GC_1.GC_2.S1_N2_MAX	GC Dataset 2 Maximum Limit for Nitrogen
9360	PG_GC.GC_1.GC_2.S1_CO2_MIN	GC Dataset 2 Minimum Limit for CO2
9361	PG_GC.GC_1.GC_2.S1_CO2_MAX	GC Dataset 2 Maximum Limit for CO2
9362	PG_GC.GC_1.GC_2.S1_CH4_MIN	GC Dataset 2 Minimum Limit for Methane
9363	PG_GC.GC_1.GC_2.S1_CH4_MAX	GC Dataset 2 Maximum Limit for Methane
9364	PG_GC.GC_1.GC_2.S1_C2_MIN	GC Dataset 2 Minimum Limit for C2
9365	PG_GC.GC_1.GC_2.S1_C2_MAX	GC Dataset 2 Maximum Limit for C2
9366	PG_GC.GC_1.GC_2.S1_C3_MIN	GC Dataset 2 Minimum Limit for C3
9367	PG_GC.GC_1.GC_2.S1_C3_MAX	GC Dataset 2 Maximum Limit for C3
9368	PG_GC.GC_1.GC_2.S1_IC4_MIN	GC Dataset 2 Minimum Limit for IC4
9369	PG_GC.GC_1.GC_2.S1_IC4_MAX	GC Dataset 2 Maximum Limit for IC4
9370	PG_GC.GC_1.GC_2.S1_NC4_MIN	GC Dataset 2 Minimum Limit for NC4
9371	PG_GC.GC_1.GC_2.S1_NC4_MAX	GC Dataset 2 Maximum Limit for NC4
9372	PG_GC.GC_1.GC_2.S1_NEOC5_MIN	GC Dataset 2 Minimum Limit for Neo C5
9373	PG_GC.GC_1.GC_2.S1_NEOC5_MAX	GC Dataset 2 Maximum Limit for Neo C5
9374	PG_GC.GC_1.GC_2.S1_IC5_MIN	GC Dataset 2 Minimum Limit for IC5
9375	PG_GC.GC_1.GC_2.S1_IC5_MAX	GC Dataset 2 Maximum Limit for IC5
9376	PG_GC.GC_1.GC_2.S1_NC5_MIN	GC Dataset 2 Minimum Limit for NC5
9377	PG_GC.GC_1.GC_2.S1_NC5_MAX	GC Dataset 2 Maximum Limit for NC5
9378	PG_GC.GC_1.GC_2.S1_NC6_MIN	GC Dataset 2 Minimum Limit for NC6
9379	PG_GC.GC_1.GC_2.S1_NC6_MAX	GC Dataset 2 Maximum Limit for NC6
9380	PG_GC.GC_1.GC_2.S1_NC7_MIN	GC Dataset 2 Minimum Limit for NC7
9381	PG_GC.GC_1.GC_2.S1_NC7_MAX	GC Dataset 2 Maximum Limit for NC7

9382 PG GC.GC 1.GC 2.S1 NCS MIN GC Dataset 2 Minimum Limit for NCS 9383 PG GC.GC 1.GC 2.S1 NCS MIN GC Dataset 2 Minimum Limit for NCS 9384 PG GC.GC 1.GC 2.S1 NC9 MIN GC Dataset 2 Minimum Limit for NCS 9385 PG GC.GC 1.GC 2.S1 NC9 MIN GC Dataset 2 Minimum Limit for NCS 9386 PG GC.GC 1.GC 2.S1 NC10 MIN GC Dataset 2 Minimum Limit for NC10 9387 PG GC.GC 1.GC 2.S1 NC10 MIN GC Dataset 2 Minimum Limit for NC10 9388 PG GC.GC 1.GC 2.S1 NC10 MAX GC Dataset 2 Minimum Limit for NC10 9389 PG GC.GC 1.GC 2.S1 H2C MIN GC Dataset 2 Minimum Limit for NC10 9380 PG GC.GC 1.GC 2.S1 H2C MIN GC Dataset 2 Minimum Limit for H20 9390 PG GC.GC 1.GC 2.S1 H2C MIN GC Dataset 2 Minimum Limit for H20 9390 PG GC.GC 1.GC 2.S1 H2S MIN GC Dataset 2 Minimum Limit for H20 9391 PG GC.GC 1.GC 2.S1 H2 MIN GC Dataset 2 Minimum Limit for H25 9392 PG GC.GC 1.GC 2.S1 H2 MIN GC Dataset 2 Minimum Limit for H25 9393 PG GC.GC 1.GC 2.S1 H2 MIN GC Dataset 2 Minimum Limit for H2 9393 PG GC.GC 1.GC 2.S1 DC MIN GC Dataset 2 Minimum Limit for H2 9393 PG GC.GC 1.GC 2.S1 DC MIN GC Dataset 2 Minimum Limit for DC 9396 PG GC.GC 1.GC 2.S1 DC MIN GC Dataset 2 Minimum Limit for DC 9397 PG GC.GC 1.GC 2.S1 DC MIN GC Dataset 2 Minimum Limit for DC 9398 PG GC.GC 1.GC 2.S1 DC MIN GC Dataset 2 Minimum Limit for DC 9399 PG GC.GC 1.GC 2.S1 DC MIN GC Dataset 2 Minimum Limit for DC 9399 PG GC.GC 1.GC 2.S1 H2 MIN GC Dataset 2 Minimum Limit for DC 9399 PG GC.GC 1.GC 2.S1 H2 MIN GC Dataset 2 Minimum Limit for DC 9399 PG GC.GC 1.GC 2.S1 H2 MIN GC Dataset 2 Minimum Limit for DC 9399 PG GC.GC 1.GC 2.S1 H2 MIN GC Dataset 2 Minimum Limit for DC 9399 PG GC.GC 1.GC 2.S1 H2 MIN GC Dataset 2 Minimum Limit for DC 9399 PG GC.GC 1.GC 2.S1 H2 MIN GC Dataset 2 Minimum Limit for DC 9399 PG GC.GC 1.GC 2.S1 H2 MIN GC Dataset 2 Minimum Limit for DC 9399 PG GC.GC 1.GC 2.S1 H2 MIN GC Dataset 2 Minimum Limit for DC 9399 PG GC.GC 1.GC 2.S1 H2 MIN GC Dataset 2 Minimum Limit for DC 9399 PG GC.GC 1.GC 3.S1 H2 MIN GC Dataset 3 Minimum Limit for DC 9400 PG GC.GC 1.GC 3.S1 H2 MIN GC Dataset 3 Minimum Limit for DC	Reg#	Variable	Description
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9408 PG_GC.GC_1.GC_3.S1_N2_MIN GC_Dataset 3 Minimum Limit for Nitrogen 9409 PG_GC.GC_1.GC_3.S1_N2_MAX GC_Dataset 3 Maximum Limit for Nitrogen 9410 PG_GC.GC_1.GC_3.S1_CO2_MIN GC_Dataset 3 Minimum Limit for CO2 9411 PG_GC.GC_1.GC_3.S1_CO2_MAX GC_Dataset 3 Maximum Limit for CO2 9412 PG_GC.GC_1.GC_3.S1_CH4_MIN GC_Dataset 3 Minimum Limit for Methane 9413 PG_GC.GC_1.GC_3.S1_CH4_MAX GC_Dataset 3 Minimum Limit for Methane 9414 PG_GC.GC_1.GC_3.S1_C2_MIN GC_Dataset 3 Minimum Limit for C2 9415 PG_GC.GC_1.GC_3.S1_C3_MIN GC_Dataset 3 Minimum Limit for C3 9416 PG_GC.GC_1.GC_3.S1_C3_MAX GC_Dataset 3 Minimum Limit for C3 9417 PG_GC.GC_1.GC_3.S1_IC4_MIN GC_Dataset 3 Minimum Limit for C3 9418 PG_GC.GC_1.GC_3.S1_IC4_MIN GC_Dataset 3 Minimum Limit for IC4 9419 PG_GC.GC_1.GC_3.S1_NC4_MIN GC_Dataset 3 Minimum Limit for IC4 9421 PG_GC.GC_1.GC_3.S1_NC4_MIN GC_Dataset 3 Minimum Limit for NC4 9422 PG_GC.GC_1.GC_3.S1_NC4_MIN GC_Dataset 3 Minimum Limit for NC4 9424 PG_GC.GC_1.GC_3.S1_NC0.S_MIN GC_Dataset 3 Minimum Limit f	9406	PG_GC.GC_1.GC_3.S1_SG_MIN	GC Dataset 3 Minimum Limit for Specifc Gravity
9409 PG_GC.GC_1.GC_3.S1_N2_MAX GC Dataset 3 Maximum Limit for Nitrogen 9410 PG_GC.GC_1.GC_3.S1_CO2_MIN GC Dataset 3 Minimum Limit for CO2 9411 PG_GC.GC_1.GC_3.S1_CO2_MAX GC Dataset 3 Maximum Limit for CO2 9412 PG_GC.GC_1.GC_3.S1_CH4_MIN GC Dataset 3 Minimum Limit for Methane 9413 PG_GC.GC_1.GC_3.S1_CH4_MAX GC Dataset 3 Minimum Limit for Methane 9414 PG_GC.GC_1.GC_3.S1_C2_MIN GC Dataset 3 Minimum Limit for C2 9415 PG_GC.GC_1.GC_3.S1_C3_MIN GC Dataset 3 Maximum Limit for C3 9416 PG_GC.GC_1.GC_3.S1_C3_MAX GC Dataset 3 Maximum Limit for C3 9417 PG_GC.GC_1.GC_3.S1_IC4_MIN GC Dataset 3 Minimum Limit for IC4 9419 PG_GC.GC_1.GC_3.S1_IC4_MIN GC Dataset 3 Minimum Limit for IC4 9420 PG_GC.GC_1.GC_3.S1_IC4_MIN GC Dataset 3 Minimum Limit for NC4 9421 PG_GC.GC_1.GC_3.S1_IC4_MIN GC Dataset 3 Minimum Limit for NC4 9420 PG_GC.GC_1.GC_3.S1_IC4_MIN GC Dataset 3 Minimum Limit for NC4 9421 PG_GC.GC_1.GC_3.S1_IC4_MIN GC Dataset 3 Minimum Limit for NC4 9422 PG_GC.GC_1.GC_3.S1_IC5_MIN GC Dataset 3 Minimum Limit for NC	9407	PG_GC.GC_1.GC_3.S1_SG_MAX	GC Dataset 3 Maximum Limit for Specifc Gravity
9410 PG_GC.GC_1.GC_3.S1_CO2_MIN GC Dataset 3 Minimum Limit for CO2 9411 PG_GC.GC_1.GC_3.S1_CO2_MAX GC Dataset 3 Maximum Limit for CO2 9412 PG_GC.GC_1.GC_3.S1_CH4_MIN GC Dataset 3 Minimum Limit for Methane 9413 PG_GC.GC_1.GC_3.S1_CH4_MAX GC Dataset 3 Maximum Limit for Methane 9414 PG_GC.GC_1.GC_3.S1_C2_MIN GC Dataset 3 Minimum Limit for C2 9415 PG_GC.GC_1.GC_3.S1_C2_MAX GC Dataset 3 Maximum Limit for C2 9416 PG_GC.GC_1.GC_3.S1_C3_MIN GC Dataset 3 Minimum Limit for C3 9417 PG_GC.GC_1.GC_3.S1_C3_MAX GC Dataset 3 Minimum Limit for C3 9418 PG_GC.GC_1.GC_3.S1_IC4_MIN GC Dataset 3 Minimum Limit for IC4 9419 PG_GC.GC_1.GC_3.S1_IC4_MAX GC Dataset 3 Maximum Limit for IC4 9420 PG_GC.GC_1.GC_3.S1_NC4_MIN GC Dataset 3 Minimum Limit for NC4 9421 PG_GC.GC_1.GC_3.S1_NC4_MAX GC Dataset 3 Minimum Limit for NC4 9422 PG_GC.GC_1.GC_3.S1_NEOC5_MIN GC Dataset 3 Minimum Limit for NC5 9424 PG_GC.GC_1.GC_3.S1_NEOC5_MAX GC Dataset 3 Minimum Limit for IC5 9425 PG_GC.GC_1.GC_3.S1_IC5_MIN GC Dataset 3 Minimum Limit for NC5<	9408	PG_GC.GC_1.GC_3.S1_N2_MIN	GC Dataset 3 Minimum Limit for Nitrogen
9411 PG_GC.GC_1.GC_3.S1_CO2_MAX GC Dataset 3 Maximum Limit for CO2 9412 PG_GC.GC_1.GC_3.S1_CH4_MIN GC Dataset 3 Minimum Limit for Methane 9413 PG_GC.GC_1.GC_3.S1_CH4_MAX GC Dataset 3 Maximum Limit for Methane 9414 PG_GC.GC_1.GC_3.S1_C2_MIN GC Dataset 3 Minimum Limit for C2 9415 PG_GC.GC_1.GC_3.S1_C2_MAX GC Dataset 3 Maximum Limit for C2 9416 PG_GC.GC_1.GC_3.S1_C3_MIN GC Dataset 3 Minimum Limit for C3 9417 PG_GC.GC_1.GC_3.S1_C3_MAX GC Dataset 3 Maximum Limit for C3 9418 PG_GC.GC_1.GC_3.S1_IC4_MIN GC Dataset 3 Minimum Limit for IC4 9419 PG_GC.GC_1.GC_3.S1_IC4_MAX GC Dataset 3 Maximum Limit for IC4 9420 PG_GC.GC_1.GC_3.S1_NC4_MIN GC Dataset 3 Minimum Limit for NC4 9421 PG_GC.GC_1.GC_3.S1_NC4_MAX GC Dataset 3 Maximum Limit for NC4 9422 PG_GC.GC_1.GC_3.S1_NC4_MAX GC Dataset 3 Minimum Limit for NC5 9424 PG_GC.GC_1.GC_3.S1_NC4_MAX GC Dataset 3 Minimum Limit for NC6 9424 PG_GC.GC_1.GC_3.S1_NC4_MAX GC Dataset 3 Minimum Limit for NC5 9425 PG_GC.GC_1.GC_3.S1_NC5_MAX GC Dataset 3 Minimum Limit for NC5	9409	PG_GC.GC_1.GC_3.S1_N2_MAX	GC Dataset 3 Maximum Limit for Nitrogen
9412 PG GC.GC 1.GC 3.S1 CH4 MIN GC Dataset 3 Minimum Limit for Methane 9413 PG GC.GC 1.GC 3.S1 CH4 MAX GC Dataset 3 Maximum Limit for Methane 9414 PG GC.GC 1.GC 3.S1 C2 MIN GC Dataset 3 Minimum Limit for C2 9415 PG GC.GC 1.GC 3.S1 C3 MIN GC Dataset 3 Maximum Limit for C2 9416 PG GC.GC 1.GC 3.S1 C3 MIN GC Dataset 3 Minimum Limit for C3 9417 PG GC.GC 1.GC 3.S1 IC4 MIN GC Dataset 3 Maximum Limit for C3 9418 PG GC.GC 1.GC 3.S1 IC4 MIN GC Dataset 3 Minimum Limit for IC4 9419 PG GC.GC 1.GC 3.S1 IC4 MAX GC Dataset 3 Maximum Limit for IC4 9420 PG GC.GC 1.GC 3.S1 NC4 MAX GC Dataset 3 Minimum Limit for NC4 9421 PG	9410	PG_GC.GC_1.GC_3.S1_CO2_MIN	GC Dataset 3 Minimum Limit for CO2
9413 PG GC.GC 1.GC 3.S1 CH4 MAX GC Dataset 3 Maximum Limit for Methane 9414 PG GC.GC 1.GC 3.S1 C2 MIN GC Dataset 3 Minimum Limit for C2 9415 PG GC.GC 1.GC 3.S1 C2 MAX GC Dataset 3 Minimum Limit for C3 9416 PG GC.GC 1.GC 3.S1 C3 MIN GC Dataset 3 Minimum Limit for C3 9417 PG GC.GC 1.GC 3.S1 C3 MAX GC Dataset 3 Maximum Limit for C3 9418 PG GC.GC 1.GC 3.S1 IC4 MIN GC Dataset 3 Minimum Limit for IC4 9419 PG GC.GC 1.GC 3.S1 IC4 MAX GC Dataset 3 Maximum Limit for IC4 9420 PG GC.GC 1.GC 3.S1 IC4 MAX GC Dataset 3 Minimum Limit for NC4 9421 PG GC.GC 1.GC 3.S1 NEO.5<	9411	PG_GC.GC_1.GC_3.S1_CO2_MAX	GC Dataset 3 Maximum Limit for CO2
9414 PG GC.GC 1.GC 3.S1 C2 MIN GC Dataset 3 Minimum Limit for C2 9415 PG GC.GC 1.GC 3.S1 C2 MAX GC Dataset 3 Maximum Limit for C3 9416 PG GC.GC 1.GC 3.S1 C3 MIN GC Dataset 3 Minimum Limit for C3 9417 PG GC.GC 1.GC 3.S1 IC4 MIN GC Dataset 3 Maximum Limit for IC4 9418 PG GC.GC 1.GC 3.S1 IC4 MIN GC Dataset 3 Minimum Limit for IC4 9419 PG GC.GC 1.GC 3.S1 IC4 MAX GC Dataset 3 Maximum Limit for IC4 9420 PG GC.GC 1.GC 3.S1 NC4 MIN GC Dataset 3 Maximum Limit for NC4 9421 PG GC.GC 1.GC 3.S1 NEOC5 MIN GC Dataset 3 Minimum Limit for Neo C5 9422 PG GC.GC 1.GC 3.S1 NEOC5 MAX GC Dataset 3 Minimum Limit for IC5 9423 PG	9412	PG_GC.GC_1.GC_3.S1_CH4_MIN	GC Dataset 3 Minimum Limit for Methane
9415 PG GC.GC 1.GC 3.S1 C2 MAX GC Dataset 3 Maximum Limit for C2 9416 PG GC.GC 1.GC 3.S1 C3 MIN GC Dataset 3 Minimum Limit for C3 9417 PG GC.GC 1.GC 3.S1 C3 MAX GC Dataset 3 Maximum Limit for C3 9418 PG GC.GC 1.GC 3.S1 IC4 MIN GC Dataset 3 Minimum Limit for IC4 9419 PG GC.GC 1.GC 3.S1 IC4 MAX GC Dataset 3 Minimum Limit for IC4 9420 PG GC.GC 1.GC 3.S1 NC4 MIN GC Dataset 3 Minimum Limit for NC4 9421 PG GC.GC 1.GC 3.S1 NEOC5 MIN GC Dataset 3 Minimum Limit for NC6 9422 PG GC.GC 1.GC 3.S1 NEOC5 MAX GC Dataset 3 Minimum Limit for Neo C5 9423 PG GC.GC 1.GC 3.S1 IC5 MIN GC Dataset 3 Minimum Limit for IC5 9424 PG	9413	PG_GC.GC_1.GC_3.S1_CH4_MAX	GC Dataset 3 Maximum Limit for Methane
9416 PG GC.GC 1.GC 3.S1 C3 MIN GC Dataset 3 Minimum Limit for C3 9417 PG GC.GC 1.GC 3.S1 C3 MAX GC Dataset 3 Maximum Limit for IC4 9418 PG GC.GC 1.GC 3.S1 IC4 MIN GC Dataset 3 Minimum Limit for IC4 9419 PG GC.GC 1.GC 3.S1 IC4 MAX GC Dataset 3 Maximum Limit for IC4 9420 PG GC.GC 1.GC 3.S1 NC4 MIN GC Dataset 3 Minimum Limit for NC4 9421 PG GC.GC 1.GC 3.S1 NEOC5 MIN GC Dataset 3 Minimum Limit for NC6 9422 PG GC.GC 1.GC 3.S1 NEOC5 MAX GC Dataset 3 Minimum Limit for Neo C5 9423 PG GC.GC 1.GC 3.S1 NEOC5 MAX GC Dataset 3 Minimum Limit for Neo C5 9424 PG GC.GC 1.GC 3.S1 NC5 MAX GC Dataset 3 Minimum Limit for NC5 9425	9414	PG_GC.GC_1.GC_3.S1_C2_MIN	GC Dataset 3 Minimum Limit for C2
9417 PG GC.GC 1.GC 3.S1 C3 MAX GC Dataset 3 Maximum Limit for C3 9418 PG GC.GC 1.GC 3.S1 IC4 MIN GC Dataset 3 Minimum Limit for IC4 9419 PG GC.GC 1.GC 3.S1 IC4 MAX GC Dataset 3 Maximum Limit for IC4 9420 PG GC.GC 1.GC 3.S1 NC4 MIN GC Dataset 3 Minimum Limit for NC4 9421 PG GC.GC 1.GC 3.S1 NC4 MAX GC Dataset 3 Maximum Limit for NC4 9422 PG GC.GC 1.GC 3.S1 NEOC5 MIN GC Dataset 3 Minimum Limit for Neo C5 9423 PG GC.GC 1.GC 3.S1 NEOC5 MAX GC Dataset 3 Maximum Limit for Neo C5 9424 PG GC.GC 1.GC 3.S1 IC5 MIN GC Dataset 3 Minimum Limit for IC5 9425 PG GC.GC 1.GC 3.S1 IC5 MAX GC Dataset 3 Maximum Limit for IC5 9426 PG GC.GC 1.GC 3.S1 NC5 MIN GC Dataset 3 Minimum Limit for NC5 9427 PG GC.GC 1.GC 3.S1 NC5 MAX GC Dataset 3 Maximum Limit for NC5 9428 PG GC.GC 1.GC 3.S1 NC6 MIN GC Dataset 3 Minimum Limit for NC6	9415	PG_GC.GC_1.GC_3.S1_C2_MAX	GC Dataset 3 Maximum Limit for C2
9418 PG_GC.GC_1.GC_3.S1_IC4_MIN GC Dataset 3 Minimum Limit for IC4 9419 PG_GC.GC_1.GC_3.S1_IC4_MAX GC Dataset 3 Maximum Limit for IC4 9420 PG_GC.GC_1.GC_3.S1_NC4_MIN GC Dataset 3 Minimum Limit for NC4 9421 PG_GC.GC_1.GC_3.S1_NC4_MAX GC Dataset 3 Maximum Limit for NC4 9422 PG_GC.GC_1.GC_3.S1_NEOC5_MIN GC Dataset 3 Minimum Limit for Neo C5 9423 PG_GC.GC_1.GC_3.S1_NEOC5_MAX GC Dataset 3 Maximum Limit for Neo C5 9424 PG_GC.GC_1.GC_3.S1_IC5_MIN GC Dataset 3 Minimum Limit for IC5 9425 PG_GC.GC_1.GC_3.S1_IC5_MAX GC Dataset 3 Maximum Limit for IC5 9426 PG_GC.GC_1.GC_3.S1_NC5_MIN GC Dataset 3 Minimum Limit for NC5 9427 PG_GC.GC_1.GC_3.S1_NC5_MAX GC Dataset 3 Maximum Limit for NC5 9428 PG_GC.GC_1.GC_3.S1_NC6_MIN GC Dataset 3 Minimum Limit for NC6	9416	PG_GC.GC_1.GC_3.S1_C3_MIN	GC Dataset 3 Minimum Limit for C3
9419 PG_GC.GC_1.GC_3.S1_IC4_MAX GC Dataset 3 Maximum Limit for IC4 9420 PG_GC.GC_1.GC_3.S1_NC4_MIN GC Dataset 3 Minimum Limit for NC4 9421 PG_GC.GC_1.GC_3.S1_NC4_MAX GC Dataset 3 Maximum Limit for NC4 9422 PG_GC.GC_1.GC_3.S1_NEOC5_MIN GC Dataset 3 Minimum Limit for Neo C5 9423 PG_GC.GC_1.GC_3.S1_NEOC5_MAX GC Dataset 3 Maximum Limit for Neo C5 9424 PG_GC.GC_1.GC_3.S1_IC5_MIN GC Dataset 3 Minimum Limit for IC5 9425 PG_GC.GC_1.GC_3.S1_IC5_MAX GC Dataset 3 Maximum Limit for IC5 9426 PG_GC.GC_1.GC_3.S1_NC5_MIN GC Dataset 3 Minimum Limit for NC5 9427 PG_GC.GC_1.GC_3.S1_NC5_MAX GC Dataset 3 Maximum Limit for NC5 9428 PG_GC.GC_1.GC_3.S1_NC6_MIN GC Dataset 3 Minimum Limit for NC6	9417	PG_GC.GC_1.GC_3.S1_C3_MAX	GC Dataset 3 Maximum Limit for C3
9420 PG_GC.GC_1.GC_3.S1_NC4_MIN GC Dataset 3 Minimum Limit for NC4 9421 PG_GC.GC_1.GC_3.S1_NC4_MAX GC Dataset 3 Maximum Limit for NC4 9422 PG_GC.GC_1.GC_3.S1_NEOC5_MIN GC Dataset 3 Minimum Limit for Neo C5 9423 PG_GC.GC_1.GC_3.S1_NEOC5_MAX GC Dataset 3 Maximum Limit for Neo C5 9424 PG_GC.GC_1.GC_3.S1_IC5_MIN GC Dataset 3 Minimum Limit for IC5 9425 PG_GC.GC_1.GC_3.S1_IC5_MAX GC Dataset 3 Maximum Limit for IC5 9426 PG_GC.GC_1.GC_3.S1_NC5_MIN GC Dataset 3 Minimum Limit for NC5 9427 PG_GC.GC_1.GC_3.S1_NC5_MAX GC Dataset 3 Maximum Limit for NC5 9428 PG_GC.GC_1.GC_3.S1_NC6_MIN GC Dataset 3 Minimum Limit for NC6	9418	PG_GC.GC_1.GC_3.S1_IC4_MIN	GC Dataset 3 Minimum Limit for IC4
9421 PG_GC.GC_1.GC_3.S1_NC4_MAX GC Dataset 3 Maximum Limit for NC4 9422 PG_GC.GC_1.GC_3.S1_NEOC5_MIN GC Dataset 3 Minimum Limit for Neo C5 9423 PG_GC.GC_1.GC_3.S1_NEOC5_MAX GC Dataset 3 Maximum Limit for Neo C5 9424 PG_GC.GC_1.GC_3.S1_IC5_MIN GC Dataset 3 Minimum Limit for IC5 9425 PG_GC.GC_1.GC_3.S1_IC5_MAX GC Dataset 3 Maximum Limit for IC5 9426 PG_GC.GC_1.GC_3.S1_NC5_MIN GC Dataset 3 Minimum Limit for NC5 9427 PG_GC.GC_1.GC_3.S1_NC5_MAX GC Dataset 3 Maximum Limit for NC5 9428 PG_GC.GC_1.GC_3.S1_NC6_MIN GC Dataset 3 Minimum Limit for NC6	9419	PG_GC.GC_1.GC_3.S1_IC4_MAX	GC Dataset 3 Maximum Limit for IC4
9422 PG_GC.GC_1.GC_3.S1_NEOC5_MIN GC Dataset 3 Minimum Limit for Neo C5 9423 PG_GC.GC_1.GC_3.S1_NEOC5_MAX GC Dataset 3 Maximum Limit for Neo C5 9424 PG_GC.GC_1.GC_3.S1_IC5_MIN GC Dataset 3 Minimum Limit for IC5 9425 PG_GC.GC_1.GC_3.S1_IC5_MAX GC Dataset 3 Maximum Limit for IC5 9426 PG_GC.GC_1.GC_3.S1_NC5_MIN GC Dataset 3 Minimum Limit for NC5 9427 PG_GC.GC_1.GC_3.S1_NC5_MAX GC Dataset 3 Maximum Limit for NC5 9428 PG_GC.GC_1.GC_3.S1_NC6_MIN GC Dataset 3 Minimum Limit for NC6	9420	PG_GC.GC_1.GC_3.S1_NC4_MIN	GC Dataset 3 Minimum Limit for NC4
9422 PG_GC.GC_1.GC_3.S1_NEOC5_MIN GC Dataset 3 Minimum Limit for Neo C5 9423 PG_GC.GC_1.GC_3.S1_NEOC5_MAX GC Dataset 3 Maximum Limit for Neo C5 9424 PG_GC.GC_1.GC_3.S1_IC5_MIN GC Dataset 3 Minimum Limit for IC5 9425 PG_GC.GC_1.GC_3.S1_IC5_MAX GC Dataset 3 Maximum Limit for IC5 9426 PG_GC.GC_1.GC_3.S1_NC5_MIN GC Dataset 3 Minimum Limit for NC5 9427 PG_GC.GC_1.GC_3.S1_NC5_MAX GC Dataset 3 Maximum Limit for NC5 9428 PG_GC.GC_1.GC_3.S1_NC6_MIN GC Dataset 3 Minimum Limit for NC6	9421		GC Dataset 3 Maximum Limit for NC4
9423 PG_GC.GC_1.GC_3.S1_NEOC5_MAX GC Dataset 3 Maximum Limit for Neo C5 9424 PG_GC.GC_1.GC_3.S1_IC5_MIN GC Dataset 3 Minimum Limit for IC5 9425 PG_GC.GC_1.GC_3.S1_IC5_MAX GC Dataset 3 Maximum Limit for IC5 9426 PG_GC.GC_1.GC_3.S1_NC5_MIN GC Dataset 3 Minimum Limit for NC5 9427 PG_GC.GC_1.GC_3.S1_NC5_MAX GC Dataset 3 Maximum Limit for NC5 9428 PG_GC.GC_1.GC_3.S1_NC6_MIN GC Dataset 3 Minimum Limit for NC6			
9424 PG_GC.GC_1.GC_3.S1_IC5_MIN GC Dataset 3 Minimum Limit for IC5 9425 PG_GC.GC_1.GC_3.S1_IC5_MAX GC Dataset 3 Maximum Limit for IC5 9426 PG_GC.GC_1.GC_3.S1_NC5_MIN GC Dataset 3 Minimum Limit for NC5 9427 PG_GC.GC_1.GC_3.S1_NC5_MAX GC Dataset 3 Maximum Limit for NC5 9428 PG_GC.GC_1.GC_3.S1_NC6_MIN GC Dataset 3 Minimum Limit for NC6	9423		
9425 PG_GC.GC_1.GC_3.S1_IC5_MAX GC Dataset 3 Maximum Limit for IC5 9426 PG_GC.GC_1.GC_3.S1_NC5_MIN GC Dataset 3 Minimum Limit for NC5 9427 PG_GC.GC_1.GC_3.S1_NC5_MAX GC Dataset 3 Maximum Limit for NC5 9428 PG_GC.GC_1.GC_3.S1_NC6_MIN GC Dataset 3 Minimum Limit for NC6			
9426 PG_GC.GC_1.GC_3.S1_NC5_MIN GC Dataset 3 Minimum Limit for NC5 9427 PG_GC.GC_1.GC_3.S1_NC5_MAX GC Dataset 3 Maximum Limit for NC5 9428 PG_GC.GC_1.GC_3.S1_NC6_MIN GC Dataset 3 Minimum Limit for NC6			GC Dataset 3 Maximum Limit for IC5
9427 PG_GC.GC_1.GC_3.S1_NC5_MAX GC Dataset 3 Maximum Limit for NC5 9428 PG_GC.GC_1.GC_3.S1_NC6_MIN GC Dataset 3 Minimum Limit for NC6	9426		GC Dataset 3 Minimum Limit for NC5
9428 PG_GC.GC_1.GC_3.S1_NC6_MIN GC Dataset 3 Minimum Limit for NC6			GC Dataset 3 Maximum Limit for NC5

Reg#	Variable	Description
9430	PG_GC.GC_1.GC_3.S1_NC7_MIN	GC Dataset 3 Minimum Limit for NC7
9431	PG GC.GC 1.GC 3.S1 NC7 MAX	GC Dataset 3 Maximum Limit for NC7
9432	PG GC.GC 1.GC 3.S1 NC8 MIN	GC Dataset 3 Minimum Limit for NC8
9433	PG GC.GC 1.GC 3.S1 NC8 MAX	GC Dataset 3 Maximum Limit for NC8
9434	PG GC.GC 1.GC 3.S1 NC9 MIN	GC Dataset 3 Minimum Limit for NC9
9435	PG_GC.GC_1.GC_3.S1_NC9_MAX	GC Dataset 3 Maximum Limit for NC9
9436	PG GC.GC 1.GC 3.S1 NC10 MIN	GC Dataset 3 Minimum Limit for NC10
9437	PG GC.GC 1.GC 3.S1 NC10 MAX	GC Dataset 3 Maximum Limit for NC10
9438	PG GC.GC 1.GC 3.S1 H2O MIN	GC Dataset 3 Minimum Limit for H2O
9439	PG GC.GC 1.GC 3.S1 H2O MAX	GC Dataset 3 Maximum Limit for H2O
9440	PG GC.GC 1.GC 3.S1 H2S MIN	GC Dataset 3 Minimum Limit for H2S
9441	PG GC.GC 1.GC 3.S1 H2S MAX	GC Dataset 3 Maximum Limit for H2S
9442	PG GC.GC 1.GC 3.S1 H2 MIN	GC Dataset 3 Minimum Limit for H2
9443	PG_GC.GC_1.GC_3.S1_H2_MAX	GC Dataset 3 Maximum Limit for H2
9444	PG_GC.GC_1.GC_3.S1_CO_MIN	GC Dataset 3 Minimum Limit for CO
9445	PG GC.GC 1.GC 3.S1 CO MAX	GC Dataset 3 Maximum Limit for CO
9446	PG GC.GC 1.GC 3.S1 O2 MIN	GC Dataset 3 Minimum Limit for O2
9447	PG GC.GC 1.GC 3.S1 O2 MAX	GC Dataset 3 Maximum Limit for O2
9448	PG GC.GC 1.GC 3.S1 HE MIN	GC Dataset 3 Minimum Limit for He
9449	PG_GC.GC_1.GC_3.S1_HE_MAX	GC Dataset 3 Maximum Limit for He
9450	PG GC.GC 1.GC 3.S1 AR MIN	GC Dataset 3 Minimum Limit for Ar
9451	PG GC.GC 1.GC 3.S1 AR MAX	GC Dataset 3 Maximum Limit for Ar
		GC Dataset 4 Minimum Limit for total sum of all
9452	PG_GC.GC_1.GC_4.TOTAL_MIN	components
9453	PG GC.GC 1.GC 4.TOTAL MAX	GC Dataset 4 Maximum Limit for total sum of all components
9454	PG GC.GC 1.GC 4.S1 BTU MIN	GC Dataset 4 Minimum Limit for BTU
9455	PG GC.GC 1.GC 4.S1 BTU MAX	GC Dataset 4 Maximum Limit for BTU
9456	PG GC.GC 1.GC 4.S1 SG MIN	GC Dataset 4 Minimum Limit for Specifc Gravity
9457	PG GC.GC 1.GC 4.S1 SG MAX	GC Dataset 4 Maximum Limit for Specifc Gravity
9458	PG GC.GC 1.GC 4.S1 N2 MIN	GC Dataset 4 Minimum Limit for Nitrogen
9459	PG GC.GC 1.GC 4.S1 N2 MAX	GC Dataset 4 Maximum Limit for Nitrogen
9460	PG GC.GC 1.GC 4.S1 CO2 MIN	GC Dataset 4 Minimum Limit for CO2
9461	PG GC.GC 1.GC 4.S1 CO2 MAX	GC Dataset 4 Maximum Limit for CO2
9462	PG GC.GC 1.GC 4.S1 CH4 MIN	GC Dataset 4 Minimum Limit for Methane
9463	PG_GC.GC_1.GC_4.S1_CH4_MAX	GC Dataset 4 Maximum Limit for Methane
9464	PG_GC.GC_1.GC_4.S1_C2_MIN	GC Dataset 4 Minimum Limit for C2
9465	PG_GC.GC_1.GC_4.S1_C2_MAX	GC Dataset 4 Maximum Limit for C2
9466	PG_GC.GC_1.GC_4.S1_C3_MIN	GC Dataset 4 Minimum Limit for C3
9467	PG_GC.GC_1.GC_4.S1_C3_MAX	GC Dataset 4 Maximum Limit for C3
9468	PG_GC.GC_1.GC_4.S1_IC4_MIN	GC Dataset 4 Minimum Limit for IC4
9469	PG_GC.GC_1.GC_4.S1_IC4_MAX	GC Dataset 4 Maximum Limit for IC4
9470	PG_GC.GC_1.GC_4.S1_NC4_MIN	GC Dataset 4 Minimum Limit for NC4
9471	PG_GC.GC_1.GC_4.S1_NC4_MAX	GC Dataset 4 Maximum Limit for NC4
9472	PG_GC.GC_1.GC_4.S1_NEOC5_MIN	GC Dataset 4 Minimum Limit for Neo C5
9473	PG_GC.GC_1.GC_4.S1_NEOC5_MAX	GC Dataset 4 Maximum Limit for Neo C5
9474	PG_GC.GC_1.GC_4.S1_IC5_MIN	GC Dataset 4 Minimum Limit for IC5
9475	PG_GC.GC_1.GC_4.S1_IC5_MAX	GC Dataset 4 Maximum Limit for IC5
9476	PG_GC.GC_1.GC_4.S1_NC5_MIN	GC Dataset 4 Minimum Limit for NC5
9477	PG_GC.GC_1.GC_4.S1_NC5_MAX	GC Dataset 4 Maximum Limit for NC5

Reg#	Variable	Description
9478	PG GC.GC 1.GC 4.S1 NC6 MIN	GC Dataset 4 Minimum Limit for NC6
9479	PG GC.GC 1.GC 4.S1 NC6 MAX	GC Dataset 4 Maximum Limit for NC6
9480	PG GC.GC 1.GC 4.S1 NC7 MIN	GC Dataset 4 Minimum Limit for NC7
9481	PG GC.GC 1.GC 4.S1 NC7 MAX	GC Dataset 4 Maximum Limit for NC7
9482	PG GC.GC 1.GC 4.S1 NC8 MIN	GC Dataset 4 Minimum Limit for NC8
9483	PG_GC.GC_1.GC_4.S1_NC8_MAX	GC Dataset 4 Maximum Limit for NC8
9484	PG GC.GC 1.GC 4.S1 NC9 MIN	GC Dataset 4 Minimum Limit for NC9
9485	PG GC.GC 1.GC 4.S1 NC9 MAX	GC Dataset 4 Maximum Limit for NC9
9486	PG GC.GC 1.GC 4.S1 NC10 MIN	GC Dataset 4 Minimum Limit for NC10
9487	PG GC.GC 1.GC 4.S1 NC10 MAX	GC Dataset 4 Maximum Limit for NC10
9488	PG GC.GC 1.GC 4.S1 H2O MIN	GC Dataset 4 Minimum Limit for H2O
9489	PG GC.GC 1.GC 4.S1 H2O MAX	GC Dataset 4 Maximum Limit for H2O
9490	PG GC.GC 1.GC 4.S1 H2S MIN	GC Dataset 4 Minimum Limit for H2S
9491	PG GC.GC 1.GC 4.S1 H2S MAX	GC Dataset 4 Maximum Limit for H2S
9492	PG GC.GC 1.GC 4.S1 H2 MIN	GC Dataset 4 Minimum Limit for H2
9493	PG GC.GC 1.GC 4.S1 H2 MAX	GC Dataset 4 Maximum Limit for H2
9494	PG GC.GC 1.GC 4.S1 CO MIN	GC Dataset 4 Minimum Limit for CO
9495	PG GC.GC 1.GC 4.S1 CO MAX	GC Dataset 4 Maximum Limit for CO
9496	PG GC.GC 1.GC 4.S1 O2 MIN	GC Dataset 4 Minimum Limit for O2
9497	PG GC.GC 1.GC 4.S1 O2 MAX	GC Dataset 4 Maximum Limit for O2
9498	PG_GC.GC_1.GC_4.S1_HE_MIN	GC Dataset 4 Minimum Limit for He
9499	PG GC.GC 1.GC 4.S1 HE MAX	GC Dataset 4 Maximum Limit for He
9500	PG_GC.GC_1.GC_4.S1_AR_MIN	GC Dataset 4 Minimum Limit for Ar
9501	PG_GC.GC_1.GC_4.S1_AR_MAX	GC Dataset 4 Maximum Limit for Ar
0500	DO 00 00 400 5 TOTAL MIN	GC Dataset 5 Minimum Limit for total sum of all
9502	PG_GC.GC_1.GC_5.TOTAL_MIN	components GC Dataset 5 Maximum Limit for total sum of all
9503	PG GC.GC 1.GC 5.TOTAL MAX	components
9504	PG GC.GC 1.GC 5.S1 BTU MIN	GC Dataset 5 Minimum Limit for BTU
9505	PG GC.GC 1.GC 5.S1 BTU MAX	GC Dataset 5 Maximum Limit for BTU
9506	PG GC.GC 1.GC 5.S1 SG MIN	GC Dataset 5 Minimum Limit for Specifc Gravity
9507	PG GC.GC 1.GC 5.S1 SG MAX	GC Dataset 5 Maximum Limit for Specifc Gravity
9508	PG GC.GC 1.GC 5.S1 N2 MIN	GC Dataset 5 Minimum Limit for Nitrogen
9509	PG_GC.GC_1.GC_5.S1_N2_MAX	GC Dataset 5 Maximum Limit for Nitrogen
9510	PG_GC.GC_1.GC_5.S1_CO2_MIN	GC Dataset 5 Minimum Limit for CO2
9511	PG_GC.GC_1.GC_5.S1_CO2_MAX	GC Dataset 5 Maximum Limit for CO2
9512	PG_GC.GC_1.GC_5.S1_CH4_MIN	GC Dataset 5 Minimum Limit for Methane
9513	PG_GC.GC_1.GC_5.S1_CH4_MAX	GC Dataset 5 Maximum Limit for Methane
9514	PG_GC.GC_1.GC_5.S1_C2_MIN	GC Dataset 5 Minimum Limit for C2
9515	PG_GC.GC_1.GC_5.S1_C2_MAX	GC Dataset 5 Maximum Limit for C2
9516	PG_GC.GC_1.GC_5.S1_C3_MIN	GC Dataset 5 Minimum Limit for C3
9517	PG_GC.GC_1.GC_5.S1_C3_MAX	GC Dataset 5 Maximum Limit for C3
9518	PG_GC.GC_1.GC_5.S1_IC4_MIN	GC Dataset 5 Minimum Limit for IC4
9519	PG_GC.GC_1.GC_5.S1_IC4_MAX	GC Dataset 5 Maximum Limit for IC4
9520	PG_GC.GC_1.GC_5.S1_NC4_MIN	GC Dataset 5 Minimum Limit for NC4
9521	PG_GC.GC_1.GC_5.S1_NC4_MAX	GC Dataset 5 Maximum Limit for NC4
9522	PG_GC.GC_1.GC_5.S1_NEOC5_MIN	GC Dataset 5 Minimum Limit for Neo C5
9523	PG_GC.GC_1.GC_5.S1_NEOC5_MAX	GC Dataset 5 Maximum Limit for Neo C5
9524	PG_GC.GC_1.GC_5.S1_IC5_MIN	GC Dataset 5 Minimum Limit for IC5
9525	PG_GC.GC_1.GC_5.S1_IC5_MAX	GC Dataset 5 Maximum Limit for IC5

Reg#	Variable	Description
9526	PG GC.GC 1.GC 5.S1 NC5 MIN	GC Dataset 5 Minimum Limit for NC5
9527	PG GC.GC 1.GC 5.S1 NC5 MAX	GC Dataset 5 Maximum Limit for NC5
9528	PG GC.GC 1.GC 5.S1 NC6 MIN	GC Dataset 5 Minimum Limit for NC6
9529	PG GC.GC 1.GC 5.S1 NC6 MAX	GC Dataset 5 Maximum Limit for NC6
9530	PG GC.GC 1.GC 5.S1 NC7 MIN	GC Dataset 5 Minimum Limit for NC7
9531	PG_GC.GC_1.GC_5.S1_NC7_MAX	GC Dataset 5 Maximum Limit for NC7
9532	PG GC.GC 1.GC 5.S1 NC8 MIN	GC Dataset 5 Minimum Limit for NC8
9533	PG GC.GC 1.GC 5.S1 NC8 MAX	GC Dataset 5 Maximum Limit for NC8
9534	PG GC.GC 1.GC 5.S1 NC9 MIN	GC Dataset 5 Minimum Limit for NC9
9535	PG GC.GC 1.GC 5.S1 NC9 MAX	GC Dataset 5 Maximum Limit for NC9
9536	PG GC.GC 1.GC 5.S1 NC10 MIN	GC Dataset 5 Minimum Limit for NC10
9537	PG GC.GC 1.GC 5.S1 NC10 MAX	GC Dataset 5 Maximum Limit for NC10
9538	PG GC.GC 1.GC 5.S1 H2O MIN	GC Dataset 5 Minimum Limit for H2O
9539	PG_GC.GC_1.GC_5.S1_H2O_MAX	GC Dataset 5 Maximum Limit for H2O
9540	PG_GC.GC_1.GC_5.S1_H2S_MIN	GC Dataset 5 Minimum Limit for H2S
9541	PG GC.GC 1.GC 5.S1 H2S MAX	GC Dataset 5 Maximum Limit for H2S
9542	PG GC.GC 1.GC 5.S1 H2 MIN	GC Dataset 5 Minimum Limit for H2
9543	PG GC.GC 1.GC 5.S1 H2 MAX	GC Dataset 5 Maximum Limit for H2
9544	PG GC.GC 1.GC 5.S1 CO MIN	GC Dataset 5 Minimum Limit for CO
9545	PG_GC.GC_1.GC_5.S1_CO_MAX	GC Dataset 5 Maximum Limit for CO
9546	PG GC.GC 1.GC 5.S1 O2 MIN	GC Dataset 5 Minimum Limit for O2
9547	PG GC.GC 1.GC 5.S1 O2 MAX	GC Dataset 5 Maximum Limit for O2
9548	PG GC.GC 1.GC 5.S1 HE MIN	GC Dataset 5 Minimum Limit for He
9549	PG_GC.GC_1.GC_5.S1_HE_MAX	GC Dataset 5 Maximum Limit for He
9550	PG_GC.GC_1.GC_5.S1_AR_MIN	GC Dataset 5 Minimum Limit for Ar
9551	PG_GC.GC_1.GC_5.S1_AR_MAX	GC Dataset 5 Maximum Limit for Ar
		GC Dataset 6 Minimum Limit for total sum of all
9552	PG_GC.GC_1.GC_6.TOTAL_MIN	components
9553	PG GC.GC 1.GC 6.TOTAL MAX	GC Dataset 6 Maximum Limit for total sum of all components
9554	PG GC.GC 1.GC 6.S1 BTU MIN	GC Dataset 6 Minimum Limit for BTU
9555	PG GC.GC 1.GC 6.S1 BTU MAX	GC Dataset 6 Maximum Limit for BTU
9556	PG GC.GC 1.GC 6.S1 SG MIN	GC Dataset 6 Minimum Limit for Specifc Gravity
9557	PG_GC.GC_1.GC_6.S1_SG_MAX	GC Dataset 6 Maximum Limit for Specifc Gravity
9558	PG GC.GC 1.GC 6.S1 N2 MIN	GC Dataset 6 Minimum Limit for Nitrogen
9559	PG_GC.GC_1.GC_6.S1_N2_MAX	GC Dataset 6 Maximum Limit for Nitrogen
9560	PG_GC.GC_1.GC_6.S1_CO2_MIN	GC Dataset 6 Minimum Limit for CO2
9561	PG GC.GC 1.GC 6.S1 CO2 MAX	GC Dataset 6 Maximum Limit for CO2
9562	PG_GC.GC_1.GC_6.S1_CH4_MIN	GC Dataset 6 Minimum Limit for Methane
9563	PG_GC.GC_1.GC_6.S1_CH4_MAX	GC Dataset 6 Maximum Limit for Methane
9564	PG_GC.GC_1.GC_6.S1_C2_MIN	GC Dataset 6 Minimum Limit for C2
9565	PG_GC.GC_1.GC_6.S1_C2_MAX	GC Dataset 6 Maximum Limit for C2
9566	PG_GC.GC_1.GC_6.S1_C3_MIN	GC Dataset 6 Minimum Limit for C3
9567	PG_GC.GC_1.GC_6.S1_C3_MAX	GC Dataset 6 Maximum Limit for C3
9568	PG_GC.GC_1.GC_6.S1_IC4_MIN	GC Dataset 6 Minimum Limit for IC4
9569	PG_GC.GC_1.GC_6.S1_IC4_MAX	GC Dataset 6 Maximum Limit for IC4
9570	PG_GC.GC_1.GC_6.S1_NC4_MIN	GC Dataset 6 Minimum Limit for NC4
9571	PG_GC.GC_1.GC_6.S1_NC4_MAX	GC Dataset 6 Maximum Limit for NC4
9572	PG_GC.GC_1.GC_6.S1_NEOC5_MIN	GC Dataset 6 Minimum Limit for Neo C5
9573	PG_GC.GC_1.GC_6.S1_NEOC5_MAX	GC Dataset 6 Maximum Limit for Neo C5

Reg#	Variable	Description
9574	PG GC.GC 1.GC 6.S1 IC5 MIN	GC Dataset 6 Minimum Limit for IC5
9575	PG GC.GC 1.GC 6.S1 IC5 MAX	GC Dataset 6 Maximum Limit for IC5
9576	PG GC.GC 1.GC 6.S1 NC5 MIN	GC Dataset 6 Minimum Limit for NC5
9577	PG GC.GC 1.GC 6.S1 NC5 MAX	GC Dataset 6 Maximum Limit for NC5
9578	PG GC.GC 1.GC 6.S1 NC6 MIN	GC Dataset 6 Minimum Limit for NC6
9579	PG_GC.GC_1.GC_6.S1_NC6_MAX	GC Dataset 6 Maximum Limit for NC6
9580	PG GC.GC 1.GC 6.S1 NC7 MIN	GC Dataset 6 Minimum Limit for NC7
9581	PG GC.GC 1.GC 6.S1 NC7 MAX	GC Dataset 6 Maximum Limit for NC7
9582	PG GC.GC 1.GC 6.S1 NC8 MIN	GC Dataset 6 Minimum Limit for NC8
9583	PG GC.GC 1.GC 6.S1 NC8 MAX	GC Dataset 6 Maximum Limit for NC8
9584	PG GC.GC 1.GC 6.S1 NC9 MIN	GC Dataset 6 Minimum Limit for NC9
9585	PG GC.GC 1.GC 6.S1 NC9 MAX	GC Dataset 6 Maximum Limit for NC9
9586	PG GC.GC 1.GC 6.S1 NC10 MIN	GC Dataset 6 Minimum Limit for NC10
9587	PG GC.GC 1.GC 6.S1 NC10 MAX	GC Dataset 6 Maximum Limit for NC10
9588	PG_GC.GC_1.GC_6.S1_H2O_MIN	GC Dataset 6 Minimum Limit for H2O
9589	PG GC.GC 1.GC 6.S1 H2O MAX	GC Dataset 6 Maximum Limit for H2O
9590	PG GC.GC 1.GC 6.S1 H2S MIN	GC Dataset 6 Minimum Limit for H2S
9591	PG GC.GC 1.GC 6.S1 H2S MAX	GC Dataset 6 Maximum Limit for H2S
9592	PG GC.GC 1.GC 6.S1 H2 MIN	GC Dataset 6 Minimum Limit for H2
9593	PG GC.GC 1.GC 6.S1 H2 MAX	GC Dataset 6 Maximum Limit for H2
9594	PG GC.GC 1.GC 6.S1 CO MIN	GC Dataset 6 Minimum Limit for CO
9595	PG GC.GC 1.GC 6.S1 CO MAX	GC Dataset 6 Maximum Limit for CO
9596	PG GC.GC 1.GC 6.S1 O2 MIN	GC Dataset 6 Minimum Limit for O2
9597	PG_GC.GC_1.GC_6.S1_O2_MAX	GC Dataset 6 Maximum Limit for O2
9598	PG GC.GC 1.GC 6.S1 HE MIN	GC Dataset 6 Minimum Limit for He
9599	PG GC.GC 1.GC 6.S1 HE MAX	GC Dataset 6 Maximum Limit for He
9600	PG_GC.GC_1.GC_6.S1_AR_MIN	GC Dataset 6 Minimum Limit for Ar
9601	PG_GC.GC_1.GC_6.S1_AR_MAX	GC Dataset 6 Maximum Limit for Ar
0000	DO 00 00 400 TTOTAL MIN	GC Dataset 7 Minimum Limit for total sum of all
9602	PG_GC.GC_1.GC_7.TOTAL_MIN	components GC Dataset 7 Maximum Limit for total sum of all
9603	PG GC.GC 1.GC 7.TOTAL MAX	components
9604	PG GC.GC 1.GC 7.S1 BTU MIN	GC Dataset 7 Minimum Limit for BTU
9605	PG_GC.GC_1.GC_7.S1_BTU_MAX	GC Dataset 7 Maximum Limit for BTU
9606	PG GC.GC 1.GC 7.S1 SG MIN	GC Dataset 7 Minimum Limit for Specifc Gravity
9607	PG_GC.GC_1.GC_7.S1_SG_MAX	GC Dataset 7 Maximum Limit for Specifc Gravity
9608	PG_GC.GC_1.GC_7.S1_N2_MIN	GC Dataset 7 Minimum Limit for Nitrogen
9609	PG_GC.GC_1.GC_7.S1_N2_MAX	GC Dataset 7 Maximum Limit for Nitrogen
9610	PG_GC.GC_1.GC_7.S1_CO2_MIN	GC Dataset 7 Minimum Limit for CO2
9611	PG_GC.GC_1.GC_7.S1_CO2_MAX	GC Dataset 7 Maximum Limit for CO2
9612	PG_GC.GC_1.GC_7.S1_CH4_MIN	GC Dataset 7 Minimum Limit for Methane
9613	PG_GC.GC_1.GC_7.S1_CH4_MAX	GC Dataset 7 Maximum Limit for Methane
9614	PG_GC.GC_1.GC_7.S1_C2_MIN	GC Dataset 7 Minimum Limit for C2
9615	PG_GC.GC_1.GC_7.S1_C2_MAX	GC Dataset 7 Maximum Limit for C2
9616	PG_GC.GC_1.GC_7.S1_C3_MIN	GC Dataset 7 Minimum Limit for C3
9617	PG_GC.GC_1.GC_7.S1_C3_MAX	GC Dataset 7 Maximum Limit for C3
9618	PG_GC.GC_1.GC_7.S1_IC4_MIN	GC Dataset 7 Minimum Limit for IC4
9619	PG_GC.GC_1.GC_7.S1_IC4_MAX	GC Dataset 7 Maximum Limit for IC4
9620	PG_GC.GC_1.GC_7.S1_NC4_MIN	GC Dataset 7 Minimum Limit for NC4
9621	PG_GC.GC_1.GC_7.S1_NC4_MAX	GC Dataset 7 Maximum Limit for NC4

Reg#	Variable	Description
9622	PG_GC.GC_1.GC_7.S1_NEOC5_MIN	GC Dataset 7 Minimum Limit for Neo C5
9623	PG GC.GC 1.GC 7.S1 NEOC5 MAX	GC Dataset 7 Maximum Limit for Neo C5
9624	PG GC.GC 1.GC 7.S1 IC5 MIN	GC Dataset 7 Minimum Limit for IC5
9625	PG GC.GC 1.GC 7.S1 IC5 MAX	GC Dataset 7 Maximum Limit for IC5
9626	PG GC.GC 1.GC 7.S1 NC5 MIN	GC Dataset 7 Minimum Limit for NC5
9627	PG_GC.GC_1.GC_7.S1_NC5_MAX	GC Dataset 7 Maximum Limit for NC5
9628	PG GC.GC 1.GC 7.S1 NC6 MIN	GC Dataset 7 Minimum Limit for NC6
9629	PG GC.GC 1.GC 7.S1 NC6 MAX	GC Dataset 7 Maximum Limit for NC6
9630	PG GC.GC 1.GC 7.S1 NC7 MIN	GC Dataset 7 Minimum Limit for NC7
9631	PG GC.GC 1.GC 7.S1 NC7 MAX	GC Dataset 7 Maximum Limit for NC7
9632	PG GC.GC 1.GC 7.S1 NC8 MIN	GC Dataset 7 Minimum Limit for NC8
9633	PG GC.GC 1.GC 7.S1 NC8 MAX	GC Dataset 7 Maximum Limit for NC8
9634	PG GC.GC 1.GC 7.S1 NC9 MIN	GC Dataset 7 Minimum Limit for NC9
9635	PG GC.GC 1.GC 7.S1 NC9 MAX	GC Dataset 7 Maximum Limit for NC9
9636	PG GC.GC 1.GC 7.S1 NC10 MIN	GC Dataset 7 Minimum Limit for NC10
9637	PG GC.GC 1.GC 7.S1 NC10 MAX	GC Dataset 7 Maximum Limit for NC10
9638	PG GC.GC 1.GC 7.S1 H2O MIN	GC Dataset 7 Minimum Limit for H2O
9639	PG GC.GC 1.GC 7.S1 H2O MAX	GC Dataset 7 Maximum Limit for H2O
9640	PG GC.GC 1.GC 7.S1 H2S MIN	GC Dataset 7 Minimum Limit for H2S
9641	PG_GC.GC_1.GC_7.S1_H2S_MAX	GC Dataset 7 Maximum Limit for H2S
9642	PG GC.GC 1.GC 7.S1 H2 MIN	GC Dataset 7 Minimum Limit for H2
9643	PG GC.GC 1.GC 7.S1 H2 MAX	GC Dataset 7 Maximum Limit for H2
9644	PG GC.GC 1.GC 7.S1 CO MIN	GC Dataset 7 Minimum Limit for CO
9645	PG_GC.GC_1.GC_7.S1_CO_MAX	GC Dataset 7 Maximum Limit for CO
9646	PG GC.GC 1.GC 7.S1 O2 MIN	GC Dataset 7 Minimum Limit for O2
9647	PG GC.GC 1.GC 7.S1 O2 MAX	GC Dataset 7 Maximum Limit for O2
9648	PG_GC.GC_1.GC_7.S1_HE_MIN	GC Dataset 7 Minimum Limit for He
9649	PG_GC.GC_1.GC_7.S1_HE_MAX	GC Dataset 7 Maximum Limit for He
9650	PG_GC.GC_1.GC_7.S1_AR_MIN	GC Dataset 7 Minimum Limit for Ar
9651	PG_GC.GC_1.GC_7.S1_AR_MAX	GC Dataset 7 Maximum Limit for Ar
0050	DO 00 00 4 00 0 TOTAL NAVA	GC Dataset 8 Minimum Limit for total sum of all
9652	PG_GC.GC_1.GC_8.TOTAL_MIN	components GC Dataset 8 Maximum Limit for total sum of all
9653	PG_GC.GC_1.GC_8.TOTAL_MAX	components
9654	PG GC.GC 1.GC 8.S1 BTU MIN	GC Dataset 8 Minimum Limit for BTU
9655	PG_GC.GC_1.GC_8.S1_BTU_MAX	GC Dataset 8 Maximum Limit for BTU
9656	PG_GC.GC_1.GC_8.S1_SG_MIN	GC Dataset 8 Minimum Limit for Specifc Gravity
9657	PG_GC.GC_1.GC_8.S1_SG_MAX	GC Dataset 8 Maximum Limit for Specifc Gravity
9658	PG_GC.GC_1.GC_8.S1_N2_MIN	GC Dataset 8 Minimum Limit for Nitrogen
9659	PG_GC.GC_1.GC_8.S1_N2_MAX	GC Dataset 8 Maximum Limit for Nitrogen
9660	PG_GC.GC_1.GC_8.S1_CO2_MIN	GC Dataset 8 Minimum Limit for CO2
9661	PG_GC.GC_1.GC_8.S1_CO2_MAX	GC Dataset 8 Maximum Limit for CO2
9662	PG_GC.GC_1.GC_8.S1_CH4_MIN	GC Dataset 8 Minimum Limit for Methane
9663	PG_GC.GC_1.GC_8.S1_CH4_MAX	GC Dataset 8 Maximum Limit for Methane
9664	PG_GC.GC_1.GC_8.S1_C2_MIN	GC Dataset 8 Minimum Limit for C2
9665	PG_GC.GC_1.GC_8.S1_C2_MAX	GC Dataset 8 Maximum Limit for C2
9666	PG_GC.GC_1.GC_8.S1_C3_MIN	GC Dataset 8 Minimum Limit for C3
9667	PG_GC.GC_1.GC_8.S1_C3_MAX	GC Dataset 8 Maximum Limit for C3
9668	PG_GC.GC_1.GC_8.S1_IC4_MIN	GC Dataset 8 Minimum Limit for IC4
9669	PG_GC.GC_1.GC_8.S1_IC4_MAX	GC Dataset 8 Maximum Limit for IC4

Reg#	Variable	Description
9670	PG GC.GC 1.GC 8.S1 NC4 MIN	GC Dataset 8 Minimum Limit for NC4
9671	PG GC.GC 1.GC 8.S1 NC4 MAX	GC Dataset 8 Maximum Limit for NC4
9672	PG GC.GC 1.GC 8.S1 NEOC5 MIN	GC Dataset 8 Minimum Limit for Neo C5
9673	PG GC.GC 1.GC 8.S1 NEOC5 MAX	GC Dataset 8 Maximum Limit for Neo C5
9674	PG_GC.GC_1.GC_8.S1_IC5_MIN	GC Dataset 8 Minimum Limit for IC5
9675	PG_GC.GC_1.GC_8.S1_IC5_MAX	GC Dataset 8 Maximum Limit for IC5
9676	PG GC.GC 1.GC 8.S1 NC5 MIN	GC Dataset 8 Minimum Limit for NC5
9677	PG_GC.GC_1.GC_8.S1_NC5_MAX	GC Dataset 8 Maximum Limit for NC5
9678	PG_GC.GC_1.GC_8.S1_NC6_MIN	GC Dataset 8 Minimum Limit for NC6
9679	PG GC.GC 1.GC 8.S1 NC6 MAX	GC Dataset 8 Maximum Limit for NC6
9680	PG GC.GC 1.GC 8.S1 NC7 MIN	GC Dataset 8 Minimum Limit for NC7
9681	PG GC.GC 1.GC 8.S1 NC7 MAX	GC Dataset 8 Maximum Limit for NC7
9682	PG GC.GC 1.GC 8.S1 NC8 MIN	GC Dataset 8 Minimum Limit for NC8
9683	PG_GC.GC_1.GC_8.S1_NC8_MAX	GC Dataset 8 Maximum Limit for NC8
9684	PG_GC.GC_1.GC_8.S1_NC9_MIN	GC Dataset 8 Minimum Limit for NC9
9685	PG GC.GC 1.GC 8.S1 NC9 MAX	GC Dataset 8 Maximum Limit for NC9
9686	PG GC.GC 1.GC 8.S1 NC10 MIN	GC Dataset 8 Minimum Limit for NC10
9687	PG GC.GC 1.GC 8.S1 NC10 MAX	GC Dataset 8 Maximum Limit for NC10
9688	PG GC.GC 1.GC 8.S1 H2O MIN	GC Dataset 8 Minimum Limit for H2O
9689	PG_GC.GC_1.GC_8.S1_H2O_MAX	GC Dataset 8 Maximum Limit for H2O
9690	PG GC.GC 1.GC 8.S1 H2S MIN	GC Dataset 8 Minimum Limit for H2S
9691	PG GC.GC 1.GC 8.S1 H2S MAX	GC Dataset 8 Maximum Limit for H2S
9692	PG GC.GC 1.GC 8.S1 H2 MIN	GC Dataset 8 Minimum Limit for H2
9693	PG_GC.GC_1.GC_8.S1_H2_MAX	GC Dataset 8 Maximum Limit for H2
9694	PG GC.GC 1.GC 8.S1 CO MIN	GC Dataset 8 Minimum Limit for CO
9695	PG_GC.GC_1.GC_8.S1_CO_MAX	GC Dataset 8 Maximum Limit for CO
9696	PG_GC.GC_1.GC_8.S1_O2_MIN	GC Dataset 8 Minimum Limit for O2
9697	PG_GC.GC_1.GC_8.S1_O2_MAX	GC Dataset 8 Maximum Limit for O2
9698	PG_GC.GC_1.GC_8.S1_HE_MIN	GC Dataset 8 Minimum Limit for He
9699	PG_GC.GC_1.GC_8.S1_HE_MAX	GC Dataset 8 Maximum Limit for He
9700	PG_GC.GC_1.GC_8.S1_AR_MIN	GC Dataset 8 Minimum Limit for Ar
9701	PG_GC.GC_1.GC_8.S1_AR_MAX	GC Dataset 8 Maximum Limit for Ar
9702	MB.SPARE	
9703	MB.SPARE	
9704	MB.SPARE	
9705	MB.SPARE	
9706	MB.SPARE	
9707	MB.SPARE	
9708	MB.SPARE	
9709	MB.SPARE	
9710	MB.SPARE	
9711	MB.SPARE	
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9713	MB.SPARE	
9714	MB.SPARE	
9715	MB.SPARE	
9716	MB.SPARE	
9717	MB.SPARE	
9718	MB.SPARE	
9719	MB.SPARE	

Reg#	Variable	Description
		Description
9720	MB.SPARE	
9721	MB.SPARE	
9722	MB.SPARE	
9723	MB.SPARE	
9724	MB.SPARE	
9725	MB.SPARE	
9726	MB.SPARE	
9727	MB.SPARE	
9728	MB.SPARE	
9729	MB.SPARE	
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9731	MB.SPARE	
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9744	MB.SPARE	
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9746	MB.SPARE	
9747	MB.SPARE	
9748	MB.SPARE	
9749	MB.SPARE	
9750	MB.SPARE	
9751	MB.SPARE	
9752	MB.SPARE	
9753	MB.SPARE	
9754	MB.SPARE	
9755	MB.SPARE	
9756	MB.SPARE	
9757	MB.SPARE	
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9816 MB.SPARE	
9817 MB.SPARE	
9818 MB.SPARE	
9819 MB.SPARE	

Reg#	Variable	Description
9820	MB.SPARE	real pro-
9821	MB.SPARE	
9822	MB.SPARE	
9823	MB.SPARE	
9824	MB.SPARE	
9825	MB.SPARE	
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M-101

Reg#	Variable	Description
9870	MB.SPARE	
9871	MB.SPARE	
9872	MB.SPARE	
9873	MB.SPARE	
9874	MB.SPARE	
9875	MB.SPARE	
9876	MB.SPARE	
9877	MB.SPARE	
9878	MB.SPARE	
9879	MB.SPARE	
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9892	MB.SPARE	
9893	MB.SPARE	
9894	MB.SPARE	
9895	MB.SPARE	
9896	MB.SPARE	
9897	MB.SPARE	
9898	MB.SPARE	
9899	MB.SPARE	
9900	MB.SPARE	
9901	MB.SPARE	
9902	PG_GC.GC_1.GC_1.IICOMMPORT	GC Dataset 1 - ControlWave Master Port to GC
9903	PG_GC.GC_1.GC_1.SLAVEADDRESS	GC Dataset 1 - GC MODBUS Slave Address
9904	PG_GC.GC_1.GC_1.GC_TYPE	GC Dataset 1 - GC Type GC Dataset 1 - Stream to be polled form this GC
9905	PG_GC.GC_1.GC_1.S1_GC_STREAM	for this Dataset
9906	PG GC.GC 1.GC 2.IICOMMPORT	GC Dataset 2 - ControlWave Master Port to GC
9907	PG GC.GC 1.GC 2.SLAVEADDRESS	GC Dataset 2 - GC MODBUS Slave Address
9908	PG_GC.GC_1.GC_2.GC_TYPE	GC Dataset 2 - GC Type
		GC Dataset 2 - Stream to be polled form this GC
9909	PG_GC.GC_1.GC_2.S1_GC_STREAM	for this Dataset
9910	PG_GC.GC_1.GC_3.IICOMMPORT	GC Dataset 3 - ControlWave Master Port to GC
9911	PG_GC.GC_1.GC_3.SLAVEADDRESS	GC Dataset 3 - GC MODBUS Slave Address
9912	PG_GC.GC_1.GC_3.GC_TYPE	GC Dataset 3 - GC Type GC Dataset 3 - Stream to be polled form this GC
9913	PG_GC.GC_1.GC_3.S1_GC_STREAM	for this Dataset
9914	PG GC.GC 1.GC 4.IICOMMPORT	GC Dataset 4 - ControlWave Master Port to GC
9915	PG GC.GC 1.GC 4.SLAVEADDRESS	GC Dataset 4 - GC MODBUS Slave Address
9916	PG_GC.GC_1.GC_4.GC_TYPE	GC Dataset 4 - GC Type
9917	PG GC.GC 1.GC 4.S1 GC STREAM	GC Dataset 4 - Stream to be polled form this GC
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9918	PG GC.GC 1.GC 5.IICOMMPORT	GC Dataset 5 - ControlWave Master Port to GC
9919	PG GC.GC 1.GC 5.SLAVEADDRESS	GC Dataset 5 - GC MODBUS Slave Address
9920	PG GC.GC 1.GC 5.GC TYPE	GC Dataset 5 - GC Type
9920	FG_GC.GC_1.GC_3.GC_TTFE	GC Dataset 5 - GC Type GC Dataset 5 - Stream to be polled form this GC
9921	PG_GC.GC_1.GC_5.S1_GC_STREAM	for this Dataset
9922	PG_GC.GC_1.GC_6.IICOMMPORT	GC Dataset 6 - ControlWave Master Port to GC
9923	PG_GC.GC_1.GC_6.SLAVEADDRESS	GC Dataset 6 - GC MODBUS Slave Address
9924	PG_GC.GC_1.GC_6.GC_TYPE	GC Dataset 6 - GC Type
		GC Dataset 6 - Stream to be polled form this GC
9925	PG_GC.GC_1.GC_6.S1_GC_STREAM	for this Dataset
9926	PG_GC.GC_1.GC_7.IICOMMPORT	GC Dataset 7 - ControlWave Master Port to GC
9927	PG_GC.GC_1.GC_7.SLAVEADDRESS	GC Dataset 7 - GC MODBUS Slave Address
9928	PG_GC.GC_1.GC_7.GC_TYPE	GC Dataset 7 - GC Type GC Dataset 7 - Stream to be polled form this GC
9929	PG GC.GC 1.GC 7.S1 GC STREAM	for this Dataset
9930	PG GC.GC 1.GC 8.IICOMMPORT	GC Dataset 8 - ControlWave Master Port to GC
9931	PG GC.GC 1.GC 8.SLAVEADDRESS	GC Dataset 8 - GC MODBUS Slave Address
9932	PG GC.GC 1.GC 8.GC TYPE	GC Dataset 8 - GC Type
0002	10_00.00_1.00_0.00_1112	GC Dataset 8 - Stream to be polled form this GC
9933	PG_GC.GC_1.GC_8.S1_GC_STREAM	for this Dataset
9934	MB.SPARE	
9935	MB.SPARE	
9936	MB.SPARE	
9937	MB.SPARE	
9938	MB.SPARE	
9939	MB.SPARE	
9940	MB.SPARE	
9941	MB.SPARE	
9942	MB.SPARE	
9943	MB.SPARE	
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9945	MB.SPARE	
9946	MB.SPARE	
9947	MB.SPARE	
9948	MB.SPARE	
9949	MB.SPARE	
9950	GM.GMBM_1.MB1_PORT	Generic MODBUS 1 Master 1 CWM Port
9951	GM.GMBM_1.MB1_MODE	Generic MODBUS 1 Master MODE
9952	GM.GMBM_1.MB1_IP_ADDR	Generic MODBUS 1 IP Address to poll
9953	GM.GMBM_1.MB1_SLAVE_ADDR	Generic MODBUS 1 Slave Address to poll
9954	GM.GMBM_1.MB1_WORD_ORDER	Generic MODBUS 1 Master Word Order
9955	GM.GMBM_1.MB1_BYTE_ORDER	Generic MODBUS 1 Master Byte Order
9956	GM.GMBM_1.MB1_BIT_ORDER	Generic MODBUS 1 Master Bit Order
9957	GM.GMBM_1.MB1_DATA_SIZE	Generic MODBUS 1 Master Data Size
9958	GM.GMBM_1.MB1_DELAY_MODE	Generic MODBUS 1 Master Delay Mode
9959	GM.GMBM_1.MB1_RTS_CTS_DELAY	Generic MODBUS 1 Master RTS/CTS Delay
9960	GM.GMBM_1.MB1_TIMEOUT	Generic MODBUS 1 Master Timeout
9961	GM.GMBM_1.MB1_REPEAT	Generic MODBUS 1 Master Repeat
9962	GM.GMBM_1.MB1_START_REG	Generic MODBUS 1 Master Start Register
9963	GM.GMBM_1.MB1_REG_COUNT	Generic MODBUS 1 Master Register Count

Reg#	Variable	Description
9964	GM.GMBM 1.MB1 ENABLED	Generic MODBUS 1 Master Enabled
9965	GM.GMBM 2.MB1 PORT	Generic MODBUS 2 Master 1 CWM Port
9966	GM.GMBM 2.MB1 MODE	Generic MODBUS 2 Master MODE
9967	GM.GMBM 2.MB1 IP ADDR	Generic MODBUS 2 IP Address to poll
9968	GM.GMBM 2.MB1 SLAVE ADDR	Generic MODBUS 2 Slave Address to poll
9969	GM.GMBM_2.MB1_WORD_ORDER	Generic MODBUS 2 Master Word Order
9970	GM.GMBM 2.MB1 BYTE ORDER	Generic MODBUS 2 Master Byte Order
9971	GM.GMBM 2.MB1 BIT ORDER	Generic MODBUS 2 Master Bit Order
9972	GM.GMBM 2.MB1 DATA SIZE	Generic MODBUS 2 Master Data Size
9973	GM.GMBM 2.MB1 DELAY MODE	Generic MODBUS 2 Master Delay Mode
9974	GM.GMBM 2.MB1 RTS CTS DELAY	Generic MODBUS 2 Master RTS/CTS Delay
9975	GM.GMBM 2.MB1 TIMEOUT	Generic MODBUS 2 Master Timeout
9976	GM.GMBM 2.MB1 REPEAT	Generic MODBUS 2 Master Repeat
9977	GM.GMBM 2.MB1 START REG	Generic MODBUS 2 Master Start Register
9978	GM.GMBM 2.MB1 REG COUNT	Generic MODBUS 2 Master Register Count
9979	GM.GMBM_2.MB1_ENABLED	Generic MODBUS 2 Master Enabled
9980	GM.GMBM 3.MB1 PORT	Generic MODBUS 3 Master 1 CWM Port
9981	GM.GMBM 3.MB1 MODE	Generic MODBUS 3 Master MODE
9982	GM.GMBM 3.MB1 IP ADDR	Generic MODBUS 3 IP Address to poll
9983	GM.GMBM 3.MB1 SLAVE ADDR	Generic MODBUS 3 Slave Address to poll
9984	GM.GMBM_3.MB1_WORD_ORDER	Generic MODBUS 3 Master Word Order
9985	GM.GMBM 3.MB1 BYTE ORDER	Generic MODBUS 3 Master Byte Order
9986	GM.GMBM_S.MB1_BIT ORDER	Generic MODBUS 3 Master Bit Order
9987	GM.GMBM_S.MB1_DHT_CRDER	Generic MODBUS 3 Master Data Size
9988	GM.GMBM_S.MB1_DATA_SIZE GM.GMBM_3.MB1_DELAY_MODE	Generic MODBUS 3 Master Data Size Generic MODBUS 3 Master Delay Mode
9989	GM.GMBM_3.MB1_RTS_CTS_DELAY	Generic MODBUS 3 Master Belay Mode Generic MODBUS 3 Master RTS/CTS Delay
9990	GM.GMBM 3.MB1 TIMEOUT	Generic MODBUS 3 Master Timeout
9991	GM.GMBM 3.MB1 REPEAT	Generic MODBUS 3 Master Repeat
9992	GM.GMBM 3.MB1 START REG	Generic MODBUS 3 Master Start Register
9993	GM.GMBM_3.MB1_REG_COUNT	Generic MODBUS 3 Master Register Count
9994	GM.GMBM 3.MB1 ENABLED	Generic MODBUS 3 Master Enabled
9995	GM.GMBM 4.MB1 PORT	Generic MODBUS 4 Master 1 CWM Port
9996	GM.GMBM 4.MB1 MODE	Generic MODBUS 4 Master MODE
9997	GM.GMBM 4.MB1 IP ADDR	Generic MODBUS 4 IP Address to poll
9998	GM.GMBM 4.MB1 SLAVE ADDR	Generic MODBUS 4 Slave Address to poll
9999	GM.GMBM_4.MB1_WORD_ORDER	Generic MODBUS 4 Master Word Order
10000	GM.GMBM 4.MB1 BYTE ORDER	Generic MODBUS 4 Master Byte Order
10000	GM.GMBM 4.MB1 BIT ORDER	Generic MODBUS 4 Master Bit Order
10001	GM.GMBM 4.MB1 DATA SIZE	Generic MODBUS 4 Master Data Size
10002	GM.GMBM 4.MB1 DELAY MODE	Generic MODBUS 4 Master Delay Mode
10003	GM.GMBM 4.MB1 RTS CTS DELAY	Generic MODBUS 4 Master RTS/CTS Delay
10004	GM.GMBM_4.MB1_TIMEOUT	Generic MODBUS 4 Master Timeout
10005	GM.GMBM 4.MB1 REPEAT	Generic MODBUS 4 Master Repeat
10007	GM.GMBM 4.MB1 START REG	Generic MODBUS 4 Master Start Register
10007	GM.GMBM 4.MB1 REG COUNT	Generic MODBUS 4 Master Register Count
10000	GM.GMBM 4.MB1 ENABLED	Generic MODBUS 4 Master Enabled
10009	GM.GMBM_5.MB1_PORT	Generic MODBUS 5 Master 1 CWM Port
10010	GM.GMBM_5.MB1_MODE	Generic MODBUS 5 Master MODE
10011	GM.GMBM_5.MB1_IP_ADDR	Generic MODBUS 5 IP Address to poll
10012	GM.GMBM 5.MB1 SLAVE ADDR	Generic MODBUS 5 Slave Address to poll
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Reg#	Variable	Description
10014	GM.GMBM 5.MB1 WORD ORDER	Generic MODBUS 5 Master Word Order
10015	GM.GMBM 5.MB1 BYTE ORDER	Generic MODBUS 5 Master Byte Order
10016	GM.GMBM 5.MB1 BIT ORDER	Generic MODBUS 5 Master Bit Order
10017	GM.GMBM 5.MB1 DATA SIZE	Generic MODBUS 5 Master Data Size
10018	GM.GMBM 5.MB1 DELAY MODE	Generic MODBUS 5 Master Delay Mode
10019	GM.GMBM_5.MB1_RTS_CTS_DELAY	Generic MODBUS 5 Master RTS/CTS Delay
10020	GM.GMBM 5.MB1 TIMEOUT	Generic MODBUS 5 Master Timeout
10021	GM.GMBM 5.MB1 REPEAT	Generic MODBUS 5 Master Repeat
10021	GM.GMBM 5.MB1 START REG	Generic MODBUS 5 Master Start Register
10023	GM.GMBM 5.MB1 REG COUNT	Generic MODBUS 5 Master Register Count
10024	GM.GMBM 5.MB1 ENABLED	Generic MODBUS 5 Master Enabled
10025	CMB1.CMB S PORT	Customer MODBUS n Slave 1 CWM Port
10026	CMB1.CMB S MBADDR	Customer MODBUS n Slave MODE
10027	CMB2.CMB S PORT	Customer MODBUS n Slave 2 CWM Port
10027	CMB2.CMB S MBADDR	Customer MODBUS n Slave MODE
10029	CMB3.CMB S PORT	Customer MODBUS n Slave 3 CWM Port
10023	CMB3.CMB S MBADDR	Customer MODBUS n Slave MODE
10030	CMB4.CMB S PORT	Customer MODBUS n Slave 4 CWM Port
10031	CMB4.CMB S MBADDR	Customer MODBUS n Slave MODE
10032	CMB5.CMB S PORT	Customer MODBUS n Slave 5 CWM Port
10033	CMB5.CMB S MBADDR	Customer MODBUS n Slave MODE
10035	RC.RCV 1.MODE	Remote Control Valve 1 mode
10035	RC.RCV 1.PULSETIME	Remote Control Valve 1 mode Remote Control Valve 1 pulse time
10037	RC.RCV 1.TRAVEL	Remote Control Valve 1 travel time
10037	RC.RCV 2.MODE	Remote Control Valve 2 mode
10038	RC.RCV 2.PULSETIME	Remote Control Valve 2 midde Remote Control Valve 2 pulse time
10039	RC.RCV 2.TRAVEL	Remote Control Valve 2 travel time
10040	RC.RCV 3.MODE	Remote Control Valve 3 mode
10041	RC.RCV 3.PULSETIME	Remote Control Valve 3 pulse time
10042	RC.RCV 3.TRAVEL	Remote Control Valve 3 travel time
10044	RC.RCV 4.MODE	Remote Control Valve 4 mode
10045	RC.RCV 4.PULSETIME	Remote Control Valve 4 pulse time
10046	RC.RCV 4.TRAVEL	Remote Control Valve 4 travel time
10047	RC.RCV 5.MODE	Remote Control Valve 5 mode
10048	RC.RCV 5.PULSETIME	Remote Control Valve 5 pulse time
10049	RC.RCV 5.TRAVEL	Remote Control Valve 5 travel time
10050	RC.RCV 6.MODE	Remote Control Valve 6 mode
10051	RC.RCV 6.PULSETIME	Remote Control Valve 6 pulse time
10051	RC.RCV 6.TRAVEL	Remote Control Valve 6 travel time
10053	RC.RCV 7.MODE	Remote Control Valve 7 mode
10054	RC.RCV 7.PULSETIME	Remote Control Valve 7 mode Remote Control Valve 7 pulse time
10055	RC.RCV 7.TRAVEL	Remote Control Valve 7 travel time
10056	RC.RCV 8.MODE	Remote Control Valve 8 mode
10057	RC.RCV 8.PULSETIME	Remote Control Valve 8 pulse time
10058	RC.RCV 8.TRAVEL	Remote Control Valve 8 travel time
10059	RC.RCV 9.MODE	Remote Control Valve 9 mode
10060	RC.RCV 9.PULSETIME	Remote Control Valve 9 pulse time
10061	RC.RCV 9.TRAVEL	Remote Control Valve 9 travel time
10061	RC.RCV 10.MODE	Remote Control Valve 10 mode
10063	RC.RCV_10.PULSETIME	Remote Control Valve 10 pulse time
10000	TOUTON_TOU OFFICIAL	1.0.1.0.0 Control valve to pulse time

Reg#	Variable	Description
10064	RC.RCV 10.TRAVEL	Remote Control Valve 10 travel time
10065	RC.RCV 11.MODE	Remote Control Valve 11 mode
10066	RC.RCV 11.PULSETIME	Remote Control Valve 11 pulse time
10067	RC.RCV 11.TRAVEL	Remote Control Valve 11 travel time
10068	RC.RCV 12.MODE	Remote Control Valve 12 mode
10069	RC.RCV_12.PULSETIME	Remote Control Valve 12 pulse time
10070	RC.RCV 12.TRAVEL	Remote Control Valve 12 travel time
10071	@GV. P1 POLL PER	ControlWave Micro Com Port 1 Poll Period
10072	@GV. P1 WRITE DEL	ControlWave Micro Com Port 1 Write Delay
10073	@GV. P1 WRITE TMO	ControlWave Micro Com Port 1 Write Timeout
		ControlWave Micro Com Port 1 number of null
10074	@GVP1_PAD_FRONT	spaces to pad the front of the message
10075	@GVP1_PAD_BACK	ControlWave Micro Com Port 1 number of null spaces to pad the back of the message
10075	WGVFI_FAD_BACK	ControlWave Micro Com Port 1 Fast Poll Cycle
10076	@GVP1_CYCLE_INT	Interval
		ControlWave Micro Com Port 1 Fast Poll Cycle
10077	@GVP1_CYCLE_TIMEO	Timeout Period ControlWave Micro Com Port 1 - this port is the
10078	@GVP1_LOCAL_PORT	slave port
		ControlWave Micro Com Port 1 VSAT minimum
10079	@GVP1_VSAT_MIN_RESP	response time
10080	@GVP1_VSAT_MAX_RESP	ControlWave Micro Com Port 1 VSAT maximum response time
10000	WOVI I_VOAI_WAX_INEOI	ControlWave Micro Com Port 1 number of comm
10081	@GVP1_RETRIES	retries (BSAP Master Only)
40000	OCV DA TIMEOUT	ControlWave Micro Com Port 1 reply message
10082	@GVP1_TIMEOUT	timeout from slave ControlWave Micro Com Port 1 VSAT up
10083	@GVP1_VSAT_UP_ACK_WAIT	acknowledgement wait period
10084	@GVP2_POLL_PER	ControlWave Micro Com Port 2 Poll Period
10085	@GVP2_WRITE_DEL	ControlWave Micro Com Port 2 Write Delay
10086	@GVP2_WRITE_TMO	ControlWave Micro Com Port 2 Write Timeout
40007	ACV DO DAD EDONT	ControlWave Micro Com Port 2 number of null
10087	@GVP2_PAD_FRONT	spaces to pad the front of the message ControlWave Micro Com Port 2 number of null
10088	@GVP2_PAD_BACK	spaces to pad the back of the message
		ControlWave Micro Com Port 2 Fast Poll Cycle
10089	@GVP2_CYCLE_INT	Interval ControlWave Micro Com Port 2 Fast Poll Cycle
10090	@GVP2_CYCLE_TIMEO	Timeout Period
		ControlWave Micro Com Port 2 - this port is the
10091	@GVP2_LOCAL_PORT	slave port
10092	@GVP2_VSAT_MIN_RESP	ControlWave Micro Com Port 2 VSAT minimum response time
10002	<u> </u>	ControlWave Micro Com Port 2 VSAT maximum
10093	@GVP2_VSAT_MAX_RESP	response time
10004	ACV DO DETDIES	ControlWave Micro Com Port 2 number of comm
10094	@GVP2_RETRIES	retries (BSAP Master Only) ControlWave Micro Com Port 2 reply message
10095	@GVP2_TIMEOUT	timeout from slave
		ControlWave Micro Com Port 2 VSAT up
10096	@GVP2_VSAT_UP_ACK_WAIT	acknowledgement wait period
10097	@GV. P3 POLL PER	ControlWave Micro Com Port 3 Poll Period
10098	@GVP3_WRITE_DEL	ControlWave Micro Com Port 3 Write Delay
10099	@GVP3_WRITE_TMO	ControlWave Micro Com Port 3 Write Timeout ControlWave Micro Com Port 3 number of null
10100	@GVP3_PAD_FRONT	spaces to pad the front of the message
10100	<u> </u>	1 spaces to pad the holl of the message

Reg#	Variable	Description
		ControlWave Micro Com Port 3 number of null
10101	@GVP3_PAD_BACK	spaces to pad the back of the message
		ControlWave Micro Com Port 3 Fast Poll Cycle
10102	@GVP3_CYCLE_INT	Interval
10103	ACV D3 CVCLE TIMEO	ControlWave Micro Com Port 3 Fast Poll Cycle Timeout Period
10103	@GVP3_CYCLE_TIMEO	ControlWave Micro Com Port 3 - this port is the
10104	@GVP3_LOCAL_PORT	slave port
		ControlWave Micro Com Port 3 VSAT minimum
10105	@GVP3_VSAT_MIN_RESP	response time
		ControlWave Micro Com Port 3 VSAT maximum
10106	@GVP3_VSAT_MAX_RESP	response time
10107	ACV D2 DETDIES	ControlWave Micro Com Port 3 number of comm retries (BSAP Master Only)
10107	@GVP3_RETRIES	ControlWave Micro Com Port 3 reply message
10108	@GVP3_TIMEOUT	timeout from slave
10100		ControlWave Micro Com Port 3 VSAT up
10109	@GVP3_VSAT_UP_ACK_WAIT	acknowledgement wait period
10110	@GV. P4 POLL PER	ControlWave Micro Com Port 4 Poll Period
10111	@GV. P4 WRITE DEL	ControlWave Micro Com Port 4 Write Delay
10112	@GVP4_WRITE_TMO	ControlWave Micro Com Port 4 Write Timeout
10112		ControlWave Micro Com Port 4 number of null
10113	@GVP4_PAD_FRONT	spaces to pad the front of the message
		ControlWave Micro Com Port 4 number of null
10114	@GVP4_PAD_BACK	spaces to pad the back of the message
		ControlWave Micro Com Port 4 Fast Poll Cycle
10115	@GVP4_CYCLE_INT	Interval
10116	ACV DA CVOLE TIMEO	ControlWave Micro Com Port 4 Fast Poll Cycle Timeout Period
10110	@GVP4_CYCLE_TIMEO	ControlWave Micro Com Port 4 - this port is the
10117	@GVP4_LOCAL_PORT	slave port
		ControlWave Micro Com Port 4 VSAT minimum
10118	@GVP4_VSAT_MIN_RESP	response time
		ControlWave Micro Com Port 4 VSAT maximum
10119	@GVP4_VSAT_MAX_RESP	response time
10120	@GV. P4_RETRIES	ControlWave Micro Com Port 4 number of comm retries (BSAP Master Only)
10120	WGVF4_RETRIES	ControlWave Micro Com Port 4 reply message
10121	@GV. P4 TIMEOUT	timeout from slave
		ControlWave Micro Com Port 4 VSAT up
10122	@GVP4_VSAT_UP_ACK_WAIT	acknowledgement wait period
10123	@GVP5_POLL_PER	ControlWave Micro Com Port 5 Poll Period
10124	@GVP5_WRITE_DEL	ControlWave Micro Com Port 5 Write Delay
10125	@GVP5_WRITE_TMO	ControlWave Micro Com Port 5 Write Timeout
		ControlWave Micro Com Port 5 number of null
10126	@GVP5_PAD_FRONT	spaces to pad the front of the message
		ControlWave Micro Com Port 5 number of null
10127	@GVP5_PAD_BACK	spaces to pad the back of the message
40400	COV DE CVOLE INT	ControlWave Micro Com Port 5 Fast Poll Cycle
10128	@GVP5_CYCLE_INT	Interval ControlWave Micro Com Port 5 Fast Poll Cycle
10129	@GVP5_CYCLE_TIMEO	Timeout Period
10123	WOVI O_OTOLL_ITIVILO	ControlWave Micro Com Port 5 - this port is the
10130	@GV. P5 LOCAL PORT	slave port
		ControlWave Micro Com Port 5 VSAT minimum
10131	@GVP5_VSAT_MIN_RESP	response time
		ControlWave Micro Com Port 5 VSAT maximum
10132	@GVP5_VSAT_MAX_RESP	response time
10122	@CV DE DETDIES	ControlWave Micro Com Port 5 number of comm
10133	@GVP5_RETRIES	retries (BSAP Master Only)

Reg#	Variable	Description
		ControlWave Micro Com Port 5 reply message
10134	@GVP5_TIMEOUT	timeout from slave
10135	@GV. P5 VSAT UP ACK WAIT	ControlWave Micro Com Port 5 VSAT up acknowledgement wait period
10136	@GV. P6 POLL PER	ControlWave Micro Com Port 6 Poll Period
10137	@GV. P6 WRITE DEL	ControlWave Micro Com Port 6 Write Delay
10138	@GV. P6 WRITE TMO	ControlWave Micro Com Port 6 Write Timeout
10100	WGVI O_WINITE_IMO	ControlWave Micro Com Port 6 number of null
10139	@GVP6_PAD_FRONT	spaces to pad the front of the message
10110	COV DO DAD DAGIC	ControlWave Micro Com Port 6 number of null
10140	@GVP6_PAD_BACK	spaces to pad the back of the message ControlWave Micro Com Port 6 Fast Poll Cycle
10141	@GVP6_CYCLE_INT	Interval
		ControlWave Micro Com Port 6 Fast Poll Cycle
10142	@GVP6_CYCLE_TIMEO	Timeout Period
10143	@GVP6_LOCAL_PORT	ControlWave Micro Com Port 6 - this port is the slave port
10143	WGVI O_LOCAL_I OKI	ControlWave Micro Com Port 6 VSAT minimum
10144	@GVP6_VSAT_MIN_RESP	response time
10115	COV DO VOLT MAY DECD	ControlWave Micro Com Port 6 VSAT maximum
10145	@GVP6_VSAT_MAX_RESP	response time ControlWave Micro Com Port 6 number of comm
10146	@GV. P6 RETRIES	retries (BSAP Master Only)
		ControlWave Micro Com Port 6 reply message
10147	@GVP6_TIMEOUT	timeout from slave
10140	@GV. P6 VSAT UP ACK WAIT	ControlWave Micro Com Port 6 VSAT up acknowledgement wait period
10148 10149	@GV. P7 POLL PER	ControlWave Micro Com Port 7 Poll Period
10149	@GV. P7 WRITE DEL	ControlWave Micro Com Port 7 Write Delay
10151	@GVP7_WRITE_TMO	ControlWave Micro Com Port 7 Write Timeout ControlWave Micro Com Port 7 number of null
10152	@GVP7_PAD_FRONT	spaces to pad the front of the message
		ControlWave Micro Com Port 7 number of null
10153	@GVP7_PAD_BACK	spaces to pad the back of the message ControlWave Micro Com Port 7 Fast Poll Cycle
10154	@GVP7_CYCLE_INT	Interval
	<u> </u>	ControlWave Micro Com Port 7 Fast Poll Cycle
10155	@GVP7_CYCLE_TIMEO	Timeout Period
10156	@GV. P7 LOCAL PORT	ControlWave Micro Com Port 7 - this port is the slave port
10130	WGVI I_LOCAL_I OKI	ControlWave Micro Com Port 7 VSAT minimum
10157	@GVP7_VSAT_MIN_RESP	response time
40450	COV DZ VOAT MAY DEOD	ControlWave Micro Com Port 7 VSAT maximum
10158	@GVP7_VSAT_MAX_RESP	response time ControlWave Micro Com Port 7 number of comm
10159	@GV. P7 RETRIES	retries (BSAP Master Only)
		ControlWave Micro Com Port 7 reply message
10160	@GVP7_TIMEOUT	timeout from slave
10161	@GVP7_VSAT_UP_ACK_WAIT	ControlWave Micro Com Port 7 VSAT up acknowledgement wait period
10161	@GV. P8 POLL PER	ControlWave Micro Com Port 8 Poll Period
10163	@GV. P8 WRITE DEL	ControlWave Micro Com Port 8 Write Delay
10163	@GV. P8 WRITE TMO	ControlWave Micro Com Port 8 Write Timeout
10104	WOVI O_WITTL_TIMO	ControlWave Micro Com Port 8 number of null
10165	@GVP8_PAD_FRONT	spaces to pad the front of the message
40400	OOV DO DAD DAOK	ControlWave Micro Com Port 8 number of null
10166	@GVP8_PAD_BACK	spaces to pad the back of the message ControlWave Micro Com Port 8 Fast Poll Cycle
10167	@GVP8_CYCLE_INT	Interval
10168	@GV. P8 CYCLE TIMEO	ControlWave Micro Com Port 8 Fast Poll Cycle
	<u> </u>	

Reg#	Variable	Description
		Timeout Period
10169	ACV DO LOCAL DODT	ControlWave Micro Com Port 8 - this port is the slave port
	@GVP8_LOCAL_PORT	ControlWave Micro Com Port 8 VSAT minimum
10170	@GVP8_VSAT_MIN_RESP	response time ControlWave Micro Com Port 8 VSAT maximum
10171	@GVP8_VSAT_MAX_RESP	response time
10172	@GVP8_RETRIES	ControlWave Micro Com Port 8 number of comm retries (BSAP Master Only)
10173	@GVP8_TIMEOUT	ControlWave Micro Com Port 8 reply message timeout from slave
10174	@GV. P8 VSAT UP ACK WAIT	ControlWave Micro Com Port 8 VSAT up acknowledgement wait period
10175	@GV. P9 POLL PER	ControlWave Micro Com Port 9 Poll Period
10176	@GV. P9 WRITE DEL	ControlWave Micro Com Port 9 Write Delay
10177	@GVP9_WRITE_TMO	ControlWave Micro Com Port 9 Write Timeout
10178	@GVP9_PAD_FRONT	ControlWave Micro Com Port 9 number of null spaces to pad the front of the message
		ControlWave Micro Com Port 9 number of null
10179	@GVP9_PAD_BACK	spaces to pad the back of the message ControlWave Micro Com Port 9 Fast Poll Cycle
10180	@GVP9_CYCLE_INT	Interval
		ControlWave Micro Com Port 9 Fast Poll Cycle
10181	@GVP9_CYCLE_TIMEO	Timeout Period
10182	@GVP9_LOCAL_PORT	ControlWave Micro Com Port 9 - this port is the slave port ControlWave Micro Com Port 9 VSAT minimum
10183	@GVP9_VSAT_MIN_RESP	response time
10184	@GVP9_VSAT_MAX_RESP	ControlWave Micro Com Port 9 VSAT maximum response time
10185	@GVP9_RETRIES	ControlWave Micro Com Port 9 number of comm retries (BSAP Master Only)
10186	@GVP9_TIMEOUT	ControlWave Micro Com Port 9 reply message timeout from slave
40407	COV DO VOAT UD AOV WAIT	ControlWave Micro Com Port 9 VSAT up
10187	@GV. P9_VSAT_UP_ACK_WAIT	acknowledgement wait period
10188	@GV_P10_POLL_PER	ControlWave Micro Com Port 10 Poll Period
10189	@GVP10_WRITE_DEL	ControlWave Micro Com Port 10 Write Delay
10190	@GVP10_WRITE_TMO	ControlWave Micro Com Port 10 Write Timeout
10191	@GVP10_PAD_FRONT	ControlWave Micro Com Port 10 number of null spaces to pad the front of the message
40400	OOV DAD DAD!	ControlWave Micro Com Port 10 number of null
10192	@GVP10_PAD_BACK	spaces to pad the back of the message ControlWave Micro Com Port 10 Fast Poll Cycle
10193	@GVP10_CYCLE_INT	Interval
10194	@GVP10_CYCLE_TIMEO	ControlWave Micro Com Port 10 Fast Poll Cycle Timeout Period
10195	@GVP10_LOCAL_PORT	ControlWave Micro Com Port 10 - this port is the slave port
10196	@GVP10_VSAT_MIN_RESP	ControlWave Micro Com Port 10 VSAT minimum response time
10197	@GVP10_VSAT_MAX_RESP	ControlWave Micro Com Port 10 VSAT maximum response time
10198	@GVP10_RETRIES	ControlWave Micro Com Port 10 number of comm retries (BSAP Master Only)
10199	@GVP10_TIMEOUT	ControlWave Micro Com Port 10 reply message timeout from slave
10200	@GVP10_VSAT_UP_ACK_WAIT	ControlWave Micro Com Port 10 VSAT up acknowledgement wait period
10201	@GV. P11 POLL PER	ControlWave Micro Com Port 11 Poll Period
	1 @	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Reg#	Variable	Description
10202	@GV. P11 WRITE DEL	ControlWave Micro Com Port 11 Write Delay
10203	@GV. P11 WRITE TMO	ControlWave Micro Com Port 11 Write Timeout
10200	GOVI II_WINIE_IMO	Gondolwave Milore Controller 11 Write TimeSut
		ControlWave Micro Com Port 11 number of null
10204	@GVP11_PAD_FRONT	spaces to pad the front of the message
		ControlWave Micro Com Port 11 number of null
10205	@GVP11_PAD_BACK	spaces to pad the back of the message ControlWave Micro Com Port 11 Fast Poll Cycle
10206	@GVP11_CYCLE_INT	Interval
	<u> </u>	ControlWave Micro Com Port 11 Fast Poll Cycle
10207	@GVP11_CYCLE_TIMEO	Timeout Period
		ControlWave Micro Com Port 11 - this port is the
10208	@GVP11_LOCAL_PORT	slave port ControlWave Micro Com Port 11 VSAT minimum
10209	@GVP11_VSAT_MIN_RESP	response time
10200	<u>@07.1 71_707(1_101114_1(201</u>	ControlWave Micro Com Port 11 VSAT maximum
10210	@GVP11_VSAT_MAX_RESP	response time
		ControlWave Micro Com Port 11 number of
10211	@GVP11_RETRIES	comm retries (BSAP Master Only) ControlWave Micro Com Port 11 reply message
10212	@GVP11_TIMEOUT	timeout from slave
10212	<u>@0vi </u>	ControlWave Micro Com Port 11 VSAT up
10213	@GVP11_VSAT_UP_ACK_WAIT	acknowledgement wait period
		Hardware Al 1, the 1st Al point installed on the
10214	IO_1.HWAIs_1.HWAI_1	ControlWave Micro
10215	IO 1.HWAIs 1.HWAI 2	Hardware AI 2, the 2nd AI point installed on the ControlWave Micro
10210	IO_I.IIWAIO_I.IIWAI_Z	Hardware Al 3, the 3rd Al point installed on the
10216	IO_1.HWAIs_1.HWAI_3	ControlWave Micro
		Hardware Al 4, the 4th Al point installed on the
10217	IO_1.HWAIs_1.HWAI_4	ControlWave Micro Hardware AI 5, the 5th AI point installed on the
10218	IO_1.HWAIs_1.HWAI_5	ControlWave Micro
10210	10_1.11// 10_1.11// 11_0	Hardware Al 6, the 6th Al point installed on the
10219	IO_1.HWAIs_1.HWAI_6	ControlWave Micro
		Hardware Al 7, the 7th Al point installed on the
10220	IO_1.HWAIs_1.HWAI_7	ControlWave Micro Hardware Al 8, the 8th Al point installed on the
10221	IO 1.HWAIs 1.HWAI 8	ControlWave Micro
		Hardware Al 9, the 9th Al point installed on the
10222	IO_1.HWAIs_1.HWAI_9	ControlWave Micro
40000	10. 4 1 104/41 - 4 1 104/41 40	Hardware Al 10, the 10th Al point installed on the
10223	IO_1.HWAIs_1.HWAI_10	ControlWave Micro Hardware AI 11, the 11th AI point installed on the
10224	IO_1.HWAIs_1.HWAI_11	ControlWave Micro
		Hardware Al 12, the 12th Al point installed on the
10225	IO_1.HWAIs_1.HWAI_12	ControlWave Micro
10000	10 1 11/1/10 1 11/1/11 12	Hardware Al 13, the 13th Al point installed on the
10226	IO_1.HWAIs_1.HWAI_13	ControlWave Micro Hardware AI 14, the 14th AI point installed on the
10227	IO_1.HWAIs_1.HWAI_14	ControlWave Micro
		Hardware Al 15, the 15th Al point installed on the
10228	IO_1.HWAIs_1.HWAI_15	ControlWave Micro
10220	IO 1 HWAIC 1 HWAI 16	Hardware Al 16, the 16th Al point installed on the
10229	IO_1.HWAIs_1.HWAI_16	ControlWave Micro Hardware AI 17, the 17th AI point installed on the
10230	IO_1.HWAIs_1.HWAI_17	ControlWave Micro
		Hardware Al 18, the 18th Al point installed on the
10231	IO_1.HWAIs_1.HWAI_18	ControlWave Micro
10222	IO 1 HWAIs 1 HWAI 10	Hardware AI 19, the 19th AI point installed on the ControlWave Micro
10232	IO_1.HWAIs_1.HWAI_19	Controllyvave Micro

Hardware Al 20, the 20th Al point installed on the	Reg#	Variable	Description
10234 10 1.HWAIs 1.HWAI 21	10000		
10.234 10.1.HWAIs 1.HWAI 21 ControlWave Micro Hardware Al 22, the 22nd Al point installed on the ControlWave Micro Hardware Al 23, the 23nd Al point installed on the ControlWave Micro Hardware Al 23, the 23nd Al point installed on the ControlWave Micro Hardware Al 24, the 24th Al point installed on the ControlWave Micro Hardware Al 24, the 24th Al point installed on the ControlWave Micro Hardware Al 24, the 24th Al point installed on the ControlWave Micro Hardware Al 25, the 25th Al point installed on the ControlWave Micro Hardware Al 25, the 25th Al point installed on the ControlWave Micro Hardware Al 25, the 25th Al point installed on the ControlWave Micro Hardware Al 27, the 27th Al point installed on the ControlWave Micro Hardware Al 27, the 27th Al point installed on the ControlWave Micro Hardware Al 28, the 28th Al point installed on the ControlWave Micro Hardware Al 28, the 28th Al point installed on the ControlWave Micro Hardware Al 28, the 28th Al point installed on the ControlWave Micro Hardware Al 31, the 31st Al point installed on the ControlWave Micro Hardware Al 31, the 31st Al point installed on the ControlWave Micro Hardware Al 31, the 31st Al point installed on the ControlWave Micro Hardware Al 33, the 33th Al point installed on the ControlWave Micro Hardware Al 33, the 33th Al point installed on the ControlWave Micro Hardware Al 33, the 33th Al point installed on the ControlWave Micro Hardware Al 33, the 33th Al point installed on the ControlWave Micro Hardware Al 33, the 33th Al point installed on the ControlWave Micro Hardware Al 33, the 33th Al point installed on the ControlWave Micro Hardware Al 33, the 33th Al point installed on the ControlWave Micro Hardware Al 33, the 33th Al point installed on the ControlWave Micro Hardware Al 34, the 34th Al point installed on the ControlWave Micro Hardware Al 34, the 44th Al point installed on the ControlWave Micro Hardware Al 34, the 44th Al point installed on the ControlWave Micro Hard	10233	IO_1.HWAIs_1.HWAI_20	
Hardware At 22, the 22nd Al point installed on the ControlWave Micro	10234	IO 1.HWAIs 1.HWAI 21	
Hardware A. 23, the 23rd Al point installed on the Control/Wave Micro			
10237 10 1.HWAIs 1.HWAI 23 ControlWave Micro Hardware AI 24, the 24th AI point installed on the ControlWave Micro Hardware AI 25, the 25th AI point installed on the ControlWave Micro Hardware AI 25, the 25th AI point installed on the ControlWave Micro Hardware AI 25, the 25th AI point installed on the ControlWave Micro Hardware AI 27, the 27th AI point installed on the ControlWave Micro Hardware AI 27, the 27th AI point installed on the ControlWave Micro Hardware AI 27, the 27th AI point installed on the ControlWave Micro Hardware AI 28, the 28th AI point installed on the ControlWave Micro Hardware AI 28, the 28th AI point installed on the ControlWave Micro Hardware AI 28, the 28th AI point installed on the ControlWave Micro Hardware AI 28, the 28th AI point installed on the ControlWave Micro Hardware AI 28, the 28th AI point installed on the ControlWave Micro Hardware AI 30, the 30th AI point installed on the ControlWave Micro Hardware AI 31, the 31st AI point installed on the ControlWave Micro Hardware AI 32, the 32nd AI point installed on the ControlWave Micro Hardware AI 32, the 32nd AI point installed on the ControlWave Micro Hardware AI 33, the 33rd AI point installed on the ControlWave Micro Hardware AI 33, the 33rd AI point installed on the ControlWave Micro Hardware AI 33, the 33rd AI point installed on the ControlWave Micro Hardware AI 34, the 34th AI point installed on the ControlWave Micro Hardware AI 35, the 35th AI point installed on the ControlWave Micro Hardware AI 36, the 35th AI point installed on the ControlWave Micro Hardware AI 36, the 35th AI point installed on the ControlWave Micro Hardware AI 36, the 35th AI point installed on the ControlWave Micro Hardware AI 36, the 35th AI point installed on the ControlWave Micro Hardware AI 37, the 37th AI point installed on the ControlWave Micro Hardware AI 48, the 44th AI point installed on the ControlWave Micro Hardware AI 48, the 44th AI point installed on the ControlWave Micro Hardw	10235	IO_1.HWAIs_1.HWAI_22	
10237 10	10006	10. 4 1/1/4/4 4 1/1/4/4 22	
10238 IO 1.HWAIs 1.HWAI 24 ControlWave Micro	10236	IO_1.HVVAIS_1.HVVAI_23	
10238 O 1.HWAIs 1.HWAI 25 ControlWave Micro	10237	IO_1.HWAIs_1.HWAI_24	
10239 10 1.HWAIs 1.HWAI 26 ControlWave Micro			· · · · · · · · · · · · · · · · · · ·
10239 IO 1.HWAIs 1.HWAI 26	10238	IO_1.HWAIs_1.HWAI_25	
10240 10 1.HWAIs 1.HWAI 27	10239	IO 1.HWAIs 1.HWAI 26	
Hardware Al 28, the 28th Al point installed on the Controll/Wave Micro			
10241 O	10240	IO_1.HWAIs_1.HWAI_27	
Hardware AI 29, the 29th AI point installed on the Control/Wave Micro	10241	10 1 11/1/10 1 11/1/11 29	
10242 10 1.HWAIs 1.HWAI 29 ControlWave Micro	10241	10_1.11WAIS_1.11WAI_20	
10243 10 1.HWAIs 1.HWAI 30	10242	IO_1.HWAIs_1.HWAI_29	ControlWave Micro
Hardware Al 31, the 31st Al point installed on the ControlWave Micro			
10244 IO 1.HWAIs 1.HWAI 31	10243	IO_1.HWAIs_1.HWAI_30	
Hardware Al 32, the 32nd Al point installed on the ControlWave Micro Hardware Al 33, the 33rd Al point installed on the ControlWave Micro Hardware Al 33, the 33rd Al point installed on the ControlWave Micro Hardware Al 34, the 34th Al point installed on the ControlWave Micro Hardware Al 35, the 35th Al point installed on the ControlWave Micro Hardware Al 35, the 35th Al point installed on the ControlWave Micro Hardware Al 36, the 36th Al point installed on the ControlWave Micro Hardware Al 36, the 36th Al point installed on the ControlWave Micro Hardware Al 36, the 36th Al point installed on the ControlWave Micro Hardware Al 37, the 37th Al point installed on the ControlWave Micro Hardware Al 38, the 38th Al point installed on the ControlWave Micro Hardware Al 39, the 39th Al point installed on the ControlWave Micro Hardware Al 39, the 39th Al point installed on the ControlWave Micro Hardware Al 40, the 40th Al point installed on the ControlWave Micro Hardware Al 40, the 40th Al point installed on the ControlWave Micro Hardware Al 41, the 41st Al point installed on the ControlWave Micro Hardware Al 41, the 41st Al point installed on the ControlWave Micro Hardware Al 42, the 42nd Al point installed on the ControlWave Micro Hardware Al 43, the 43rd Al point installed on the ControlWave Micro Hardware Al 44, the 44th Al point installed on the ControlWave Micro Hardware Al 44, the 44th Al point installed on the ControlWave Micro Hardware Al 44, the 44th Al point installed on the ControlWave Micro Hardware Al 44, the 44th Al point installed on the ControlWave Micro Hardware Al 44, the 44th Al point installed on the ControlWave Micro Hardware Al 47, the 47th Al point installed on the ControlWave Micro Hardware Al 48, the 48th Al point installed on the ControlWave Micro Hardware Al 48, the 48th Al point installed on the ControlWave Micro Hardware Al 48, the 48th Al point installed on the ControlWave Micro Hardware Al 48, the 48th Al point installed on the Contr	10244	IO 1.HWAIs 1.HWAI 31	
Hardware Al 33, the 33rd Al point installed on the Controll/Vave Micro 10247 IO 1.HWAIs 1.HWAI 34 Controll/Vave Micro 10248 IO 1.HWAIs 1.HWAI 35 Controll/Vave Micro 10249 IO 1.HWAIs 1.HWAI 35 Controll/Vave Micro 10249 IO 1.HWAIs 1.HWAI 36 Hardware Al 35, the 35th Al point installed on the Controll/Vave Micro 10249 IO 1.HWAIs 1.HWAI 36 Controll/Vave Micro 10250 IO 1.HWAIs 1.HWAI 37 Controll/Vave Micro 10251 IO 1.HWAIs 1.HWAI 38 Controll/Vave Micro 10252 IO 1.HWAIs 1.HWAI 39 Hardware Al 38, the 38th Al point installed on the Controll/Vave Micro 10253 IO 1.HWAIs 1.HWAI 39 Controll/Vave Micro 10254 IO 1.HWAIs 1.HWAI 40 Controll/Vave Micro 10255 IO 1.HWAIs 1.HWAI 41 Hardware Al 40, the 40th Al point installed on the Controll/Vave Micro 10256 IO 1.HWAIs 1.HWAI 41 Controll/Vave Micro 10257 IO 1.HWAIs 1.HWAI 41 Controll/Vave Micro 10258 IO 1.HWAIs 1.HWAI 42 Hardware Al 42, the 42nd Al point installed on the Controll/Vave Micro 10259 IO 1.HWAIs 1.HWAI 43 Controll/Vave Micro 10259 IO 1.HWAIs 1.HWAI 43 Controll/Vave Micro 10259 IO 1.HWAIs 1.HWAI 44 Controll/Vave Micro 10259 IO 1.HWAIs 1.HWAI 45 Hardware Al 44, the 42nd Al point installed on the Controll/Vave Micro 10259 IO 1.HWAIs 1.HWAI 45 Hardware Al 45, the 45th Al point installed on the Controll/Vave Micro 10259 IO 1.HWAIs 1.HWAI 45 Hardware Al 45, the 45th Al point installed on the Controll/Vave Micro 10260 IO 1.HWAIs 1.HWAI 45 Hardware Al 47, the 47th Al point installed on the Controll/Vave Micro 10261 IO 1.HWAIs 1.HWAI 46 Controll/Vave Micro 10262 IO 1.HWAIs 1.HWAI 47 Hardware Al 47, the 47th Al point installed on the Controll/Vave Micro 10263 Hardware Al 47, the 47th Al point installed on the Controll/Vave Micro 10264 Hardware Al 48, the 48th Al point installed on the Controll/Vave Micro 10265 Hardware Al 47, the 47th Al point installed on the Controll/Vave Micro 10266 Hardware Al 48, the 48th Al point installed on the Controll/Vave Micro 10267 Hardware Al 47, the 50th Al point installed on the Controll/Vave Micro 10268 Hardware Al 48,			Hardware Al 32, the 32nd Al point installed on
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Hardware AI 34, the 34th AI point installed on the Control/Wave Micro	10246	IO 1 HWAIs 1 HWAI 33	
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Hardware AI 41, the 41st AI point installed on the ControlWave Micro Hardware AI 42, the 42nd AI point installed on the ControlWave Micro Hardware AI 43, the 43rd AI point installed on the ControlWave Micro Hardware AI 43, the 43rd AI point installed on the ControlWave Micro Hardware AI 44, the 44th AI point installed on the ControlWave Micro Hardware AI 45, the 45th AI point installed on the ControlWave Micro Hardware AI 45, the 45th AI point installed on the ControlWave Micro Hardware AI 46, the 46th AI point installed on the ControlWave Micro Hardware AI 47, the 47th AI point installed on the ControlWave Micro Hardware AI 47, the 47th AI point installed on the ControlWave Micro Hardware AI 48, the 48th AI point installed on the ControlWave Micro Hardware AI 48, the 48th AI point installed on the ControlWave Micro Hardware AI 49, the 49th AI point installed on the ControlWave Micro Hardware AI 49, the 49th AI point installed on the ControlWave Micro Hardware AI 49, the 49th AI point installed on the ControlWave Micro Hardware AI 49, the 49th AI point installed on the ControlWave Micro Hardware AI 49, the 49th AI point installed on the ControlWave Micro	10253	IO 1.HWAIs 1.HWAI 40	
Hardware Al 42, the 42nd Al point installed on the ControlWave Micro Hardware Al 43, the 43rd Al point installed on the ControlWave Micro Hardware Al 43, the 44rd Al point installed on the ControlWave Micro Hardware Al 44, the 44th Al point installed on the ControlWave Micro Hardware Al 45, the 45th Al point installed on the ControlWave Micro Hardware Al 45, the 45th Al point installed on the ControlWave Micro Hardware Al 46, the 46th Al point installed on the ControlWave Micro Hardware Al 47, the 47th Al point installed on the ControlWave Micro Hardware Al 47, the 47th Al point installed on the ControlWave Micro Hardware Al 48, the 48th Al point installed on the ControlWave Micro Hardware Al 48, the 48th Al point installed on the ControlWave Micro Hardware Al 49, the 49th Al point installed on the ControlWave Micro Hardware Al 49, the 49th Al point installed on the ControlWave Micro Hardware Al 49, the 49th Al point installed on the ControlWave Micro Hardware Al 49, the 49th Al point installed on the ControlWave Micro Hardware Al 49, the 50th Al point installed on the ControlWave Micro	1000		
the ControlWave Micro Hardware Al 43, the 43rd Al point installed on the ControlWave Micro Hardware Al 44, the 44th Al point installed on the ControlWave Micro Hardware Al 44, the 44th Al point installed on the ControlWave Micro Hardware Al 45, the 45th Al point installed on the ControlWave Micro Hardware Al 45, the 45th Al point installed on the ControlWave Micro Hardware Al 46, the 46th Al point installed on the ControlWave Micro Hardware Al 47, the 47th Al point installed on the ControlWave Micro Hardware Al 47, the 47th Al point installed on the ControlWave Micro Hardware Al 48, the 48th Al point installed on the ControlWave Micro Hardware Al 48, the 48th Al point installed on the ControlWave Micro Hardware Al 49, the 49th Al point installed on the ControlWave Micro Hardware Al 49, the 49th Al point installed on the ControlWave Micro Hardware Al 49, the 50th Al point installed on the ControlWave Micro Hardware Al 50, the 50th Al point installed on the	10254	IO_1.HWAIs_1.HWAI_41	
Hardware AI 43, the 43rd AI point installed on the ControlWave Micro Hardware AI 44, the 44th AI point installed on the ControlWave Micro Hardware AI 45, the 45th AI point installed on the ControlWave Micro Hardware AI 45, the 45th AI point installed on the ControlWave Micro Hardware AI 46, the 46th AI point installed on the ControlWave Micro Hardware AI 47, the 47th AI point installed on the ControlWave Micro Hardware AI 47, the 47th AI point installed on the ControlWave Micro Hardware AI 48, the 48th AI point installed on the ControlWave Micro Hardware AI 48, the 48th AI point installed on the ControlWave Micro Hardware AI 49, the 49th AI point installed on the ControlWave Micro Hardware AI 49, the 49th AI point installed on the ControlWave Micro Hardware AI 49, the 49th AI point installed on the ControlWave Micro Hardware AI 50, the 50th AI point installed on the	10255	IO 1 HWAIs 1 HWAI 42	
10256 IO 1.HWAIs 1.HWAI 43 10257 IO 1.HWAIs 1.HWAI 44 10258 IO 1.HWAIs 1.HWAI 45 10259 IO 1.HWAIs 1.HWAI 46 10260 IO 1.HWAIs 1.HWAI 47 10261 IO 1.HWAIs 1.HWAI 48 10262 IO 1.HWAIs 1.HWAI 49 ControlWave Micro Hardware Al 45, the 45th Al point installed on the ControlWave Micro Hardware Al 46, the 46th Al point installed on the ControlWave Micro Hardware Al 47, the 47th Al point installed on the ControlWave Micro Hardware Al 48, the 48th Al point installed on the ControlWave Micro Hardware Al 48, the 48th Al point installed on the ControlWave Micro Hardware Al 49, the 49th Al point installed on the ControlWave Micro Hardware Al 49, the 49th Al point installed on the ControlWave Micro Hardware Al 49, the 49th Al point installed on the ControlWave Micro Hardware Al 50, the 50th Al point installed on the	10200	10_13110/10_13110/11_72	
10257 IO 1.HWAIs 1.HWAI 44 ControlWave Micro Hardware AI 45, the 45th AI point installed on the ControlWave Micro Hardware AI 46, the 46th AI point installed on the ControlWave Micro Hardware AI 47, the 47th AI point installed on the ControlWave Micro Hardware AI 47, the 47th AI point installed on the ControlWave Micro Hardware AI 48, the 48th AI point installed on the ControlWave Micro Hardware AI 48, the 48th AI point installed on the ControlWave Micro Hardware AI 49, the 49th AI point installed on the ControlWave Micro Hardware AI 49, the 49th AI point installed on the ControlWave Micro Hardware AI 50, the 50th AI point installed on the ControlWave Micro	10256	IO_1.HWAIs_1.HWAI_43	ControlWave Micro
Hardware AI 45, the 45th AI point installed on the ControlWave Micro Hardware AI 46, the 46th AI point installed on the ControlWave Micro Hardware AI 46, the 46th AI point installed on the ControlWave Micro Hardware AI 47, the 47th AI point installed on the ControlWave Micro Hardware AI 47, the 47th AI point installed on the ControlWave Micro Hardware AI 48, the 48th AI point installed on the ControlWave Micro Hardware AI 49, the 49th AI point installed on the ControlWave Micro Hardware AI 49, the 49th AI point installed on the ControlWave Micro Hardware AI 50, the 50th AI point installed on the ControlWave Micro	10257	10 1 HWAIC 1 HWAI 44	
10258 IO 1.HWAIs 1.HWAI 45 10259 IO 1.HWAIs 1.HWAI 46 10260 IO 1.HWAIs 1.HWAI 47 10261 IO 1.HWAIs 1.HWAI 48 10262 IO 1.HWAIs 1.HWAI 49 10262 IO 1.HWAIs 1.HWAI 49 ControlWave Micro Hardware Al 47, the 47th Al point installed on the ControlWave Micro Hardware Al 48, the 48th Al point installed on the ControlWave Micro Hardware Al 49, the 49th Al point installed on the ControlWave Micro Hardware Al 49, the 49th Al point installed on the ControlWave Micro Hardware Al 50, the 50th Al point installed on the	10257	IO_I.DVVAIS_I.DVVAI_44	
Hardware Al 46, the 46th Al point installed on the ControlWave Micro Hardware Al 47, the 47th Al point installed on the ControlWave Micro Hardware Al 47, the 47th Al point installed on the ControlWave Micro Hardware Al 48, the 48th Al point installed on the ControlWave Micro Hardware Al 48, the 49th Al point installed on the ControlWave Micro Hardware Al 49, the 49th Al point installed on the ControlWave Micro Hardware Al 50, the 50th Al point installed on the ControlWave Micro	10258	IO_1.HWAIs_1.HWAI_45	
Hardware AI 47, the 47th AI point installed on the ControlWave Micro Hardware AI 48, the 48th AI point installed on the ControlWave Micro Hardware AI 48, the 48th AI point installed on the ControlWave Micro Hardware AI 49, the 49th AI point installed on the ControlWave Micro Hardware AI 49, the 49th AI point installed on the ControlWave Micro Hardware AI 50, the 50th AI point installed on the			I · · · · · · · · · · · · · · · · · · ·
10260 IO 1.HWAIs 1.HWAI 47 ControlWave Micro Hardware AI 48, the 48th AI point installed on the ControlWave Micro Hardware AI 49, the 49th AI point installed on the ControlWave Micro Hardware AI 49, the 49th AI point installed on the ControlWave Micro Hardware AI 50, the 50th AI point installed on the	10259	IO_1.HWAIs_1.HWAI_46	
Hardware AI 48, the 48th AI point installed on the ControlWave Micro Hardware AI 49, the 49th AI point installed on the ControlWave Micro Hardware AI 49, the 49th AI point installed on the ControlWave Micro Hardware AI 50, the 50th AI point installed on the	10260	IO 1.HWAIs 1.HWAI 47	
Hardware AI 49, the 49th AI point installed on the ControlWave Micro Hardware AI 50, the 50th AI point installed on the			
10262 IO_1.HWAIs_1.HWAI_49 ControlWave Micro Hardware Al 50, the 50th Al point installed on the	10261	IO_1.HWAIs_1.HWAI_48	
Hardware Al 50, the 50th Al point installed on the	10262	IO 1 HWAIs 1 HWAI 49	
	10202		
	10263	IO_1.HWAIs_1.HWAI_50	

Reg#	Variable	Description
10001		Hardware Al 51, the 51st Al point installed on the
10264	IO_1.HWAIs_1.HWAI_51	ControlWave Micro Hardware AI 52, the 52nd AI point installed on
10265	IO 1.HWAIs 1.HWAI 52	the ControlWave Micro
10200	10_1	Hardware AI 53, the 53rd AI point installed on the
10266	IO_1.HWAIs_1.HWAI_53	ControlWave Micro
40007	10 410000 410000 54	Hardware Al 54, the 54th Al point installed on the
10267	IO_1.HWAIs_1.HWAI_54	ControlWave Micro Hardware AI 55, the 55th AI point installed on the
10268	IO_1.HWAIs_1.HWAI_55	ControlWave Micro
		Hardware Al 56, the 56th Al point installed on the
10269	IO_1.HWAIs_1.HWAI_56	ControlWave Micro
10270	IO_1.HWAIs_1.HWAI_57	Hardware Al 57, the 57th Al point installed on the ControlWave Micro
10210	10_1.110/10_1.110/10_0/	Hardware Al 58, the 58th Al point installed on the
10271	IO_1.HWAIs_1.HWAI_58	ControlWave Micro
40070	10.4100001.50	Hardware Al 59, the 59th Al point installed on the
10272	IO_1.HWAIs_1.HWAI_59	ControlWave Micro Hardware Al 60, the 60th Al point installed on the
10273	IO 1.HWAIs 1.HWAI 60	ControlWave Micro
		Hardware Al 61, the 61st Al point installed on the
10274	IO_1.HWAIs_1.HWAI_61	ControlWave Micro
10275	IO_1.HWAIs_1.HWAI_62	Hardware AI 62, the 62nd AI point installed on the ControlWave Micro
10210	10_1.110/1.0_1.110/1.0_02	Hardware Al 63, the 63rd Al point installed on the
10276	IO_1.HWAIs_1.HWAI_63	ControlWave Micro
40077	10. 4 1 104/41 - 4 1 104/41 - 64	Hardware Al 64, the 64th Al point installed on the
10277	IO_1.HWAIs_1.HWAI_64	ControlWave Micro Hardware Al 65, the 65th Al point installed on the
10278	IO_1.HWAIs_1.HWAI_65	ControlWave Micro
		Hardware Al 66, the 66th Al point installed on the
10279	IO_1.HWAIs_1.HWAI_66	ControlWave Micro Hardware AI 67, the 67th AI point installed on the
10280	IO_1.HWAIs_1.HWAI_67	ControlWave Micro
.0200		Hardware Al 68, the 68th Al point installed on the
10281	IO_1.HWAIs_1.HWAI_68	ControlWave Micro
10282	IO 1.HWAIs 1.HWAI 69	Hardware AI 69, the 69th AI point installed on the ControlWave Micro
10202	10_1.11VAI3_1.11VAI_00	Hardware Al 70, the 70th Al point installed on the
10283	IO_1.HWAIs_1.HWAI_70	ControlWave Micro
40004	10 4 1 104/41 - 4 1 104/41 - 74	Hardware Al 71, the 71st Al point installed on the
10284	IO_1.HWAIs_1.HWAI_71	ControlWave Micro Hardware AI 72, the 72nd AI point installed on
10285	IO_1.HWAIs_1.HWAI_72	the ControlWave Micro
		Hardware Al 73, the 73rd Al point installed on the
10286	IO_1.HWAIs_1.HWAI_73	ControlWave Micro Hardware AI 74, the 74th AI point installed on the
10287	IO_1.HWAIs_1.HWAI_74	ControlWave Micro
		Hardware Al 75, the 75th Al point installed on the
10288	IO_1.HWAIs_1.HWAI_75	ControlWave Micro
10290	IO 1 HWAIs 1 HWAI 76	Hardware Al 76, the 76th Al point installed on the ControlWave Micro
10289	IO_1.HWAIs_1.HWAI_76	Hardware Al 77, the 77th Al point installed on the
10290	IO_1.HWAIs_1.HWAI_77	ControlWave Micro
4000:	10 4 I I MAI 4 I I MAI 70	Hardware Al 78, the 78th Al point installed on the
10291	IO_1.HWAIs_1.HWAI_78	ControlWave Micro Hardware AI 79, the 79th AI point installed on the
10292	IO_1.HWAIs_1.HWAI_79	ControlWave Micro
		Hardware Al 80, the 80th Al point installed on the
10293	IO_1.HWAIs_1.HWAI_80	ControlWave Micro
10294	IO_1.HWAIs_1.HWAI_81	Hardware Al 81, the 81st Al point installed on the ControlWave Micro
10234	10_1.11VV/10_1.11VV/11_01	CONTROLLA AND TALLOLD

Hardware Ai 82, the 82md Ai point installed on the Control/Wave Micro	Reg#	Variable	Description
Hardware Al 83, the 83rd Al point installed on the Control/Wave Micro			
10299 IO_1.HWAIs_1.HWAI_84 Hardware All 84, the 84th All point installed on the Control/Wave Micro Hardware All 84, the 84th All point installed on the Control/Wave Micro Hardware All 85, the 85th All point installed on the Control/Wave Micro Hardware All 86, the 85th All point installed on the Control/Wave Micro Hardware All 86, the 85th All point installed on the Control/Wave Micro Hardware All 87, the 97th All point installed on the Control/Wave Micro Hardware All 87, the 87th All point installed on the Control/Wave Micro Hardware All 88, the 85th All point installed on the Control/Wave Micro Hardware All 89, the 95th All point installed on the Control/Wave Micro Hardware All 89, the 95th All point installed on the Control/Wave Micro Hardware All 91, the 91st All point installed on the Control/Wave Micro Hardware All 91, the 91st All point installed on the Control/Wave Micro Hardware All 91, the 91st All point installed on the Control/Wave Micro Hardware All 91, the 93tr All point installed on the Control/Wave Micro Hardware All 93, the 93th All point installed on the Control/Wave Micro Hardware All 93, the 93th All point installed on the Control/Wave Micro Hardware All 93, the 93th All point installed on the Control/Wave Micro Hardware All 93, the 93th All point installed on the Control/Wave Micro Hardware All 93, the 93th All point installed on the Control/Wave Micro Hardware All 94, the 94th All point installed on the Control/Wave Micro Hardware All 93, the 95th All point installed on the Control/Wave Micro Hardware All 94, the 94th All point installed on the Control/Wave Micro Hardware All 98, the 95th All point installed on the Control/Wave Micro Hardware All 98, the 95th All point installed on the Control/Wave Micro Hardware All 98, the 95th All point installed on the Control/Wave Micro Hardware All 98, the 95th All point installed on the Control/Wave Micro Hardware All 98, the 95th All point installed on the Control/Wave Micro Hardware All 98	10295	IO_1.HWAIs_1.HWAI_82	
10.299 IO. 1.HWAIs 1.HWAI 85 ControlWave Micro	10296	IO_1.HWAIs_1.HWAI_83	ControlWave Micro
Hardware A 15, the 85th Al point installed on the ControlWave Micro	10297	IO 1 HWAIs 1 HWAI 84	
Hardware AI 86, the 86th AI point installed on the ControlWave Micro			Hardware Al 85, the 85th Al point installed on the
Hardware Al 87, the 87th Al point installed on the ControlWave Micro			Hardware Al 86, the 86th Al point installed on the
10300 IO 1.HWAIs 1.HWAI 87 ControlWave Micro	10299	IO_1.HWAIs_1.HWAI_86	-
10301 IO 1.HWAIs 1.HWAI 88	10300	IO 1.HWAIs 1.HWAI 87	ControlWave Micro
10302 O. 1.HWAIs 1.HWAI 89 ControlWave Micro	10301	IO_1.HWAIs_1.HWAI_88	ControlWave Micro
10303 O	10302	IO 1.HWAIs 1.HWAI 89	ControlWave Micro
Hardware AI 91, the 91st AI point installed on the Control/Wave Micro	10202	IO 1 HWAI: 1 HWAI 00	
10304 O 1.HWAIs 1.HWAI 91 ControlWave Micro Hardware AI 92, the 92nd AI point installed on the ControlWave Micro Hardware AI 93, the 93rd AI point installed on the ControlWave Micro Hardware AI 93, the 93rd AI point installed on the ControlWave Micro Hardware AI 94, the 94th AI point installed on the ControlWave Micro Hardware AI 94, the 94th AI point installed on the ControlWave Micro Hardware AI 95, the 95th AI point installed on the ControlWave Micro Hardware AI 95, the 95th AI point installed on the ControlWave Micro Hardware AI 95, the 95th AI point installed on the ControlWave Micro Hardware AI 97, the 97th AI point installed on the ControlWave Micro Hardware AI 97, the 97th AI point installed on the ControlWave Micro Hardware AI 97, the 97th AI point installed on the ControlWave Micro Hardware AI 97, the 97th AI point installed on the ControlWave Micro Hardware AI 99, the 99th AI point installed on the ControlWave Micro Hardware AI 99, the 99th AI point installed on the ControlWave Micro Hardware AI 99, the 99th AI point installed on the ControlWave Micro Hardware AI 99, the 99th AI point installed on the ControlWave Micro Hardware AI 99, the 99th AI point installed on the ControlWave Micro Hardware AI 99, the 99th AI point installed on the ControlWave Micro Hardware AI 99, the 99th AI point installed on the ControlWave Micro Hardware AI 99, the 99th AI point installed on the ControlWave Micro Hardware AI 99, the 99th AI point installed on the ControlWave Micro Hardware AI 99, the 99th AI point installed on the ControlWave Micro Hardware AI 99, the 99th AI point installed on the ControlWave Micro Hardware AI 99, the 99th AI point installed on the ControlWave Micro Hardware AI 99, the 99th AI point installed on the ControlWave Micro Hardware AI 99, the 99th AI point installed on the ControlWave Micro Hardware AI 99, the 99th AI point installed on the ControlWave Micro Hardware AI 99, the 99th AI point installed on the ControlWave Micro Hardwa	10303	IO_1.HWAIS_1.HWAI_90	
10305 IO 1.HWAIs 1.HWAI 92 Hardware AI 93, the 93rd AI point installed on the Control/Wave Milcro Hardware AI 93, the 93rd AI point installed on the Control/Wave Milcro Hardware AI 94, the 94th AI point installed on the Control/Wave Milcro Hardware AI 94, the 94th AI point installed on the Control/Wave Milcro Hardware AI 95, the 95th AI point installed on the Control/Wave Milcro Hardware AI 95, the 95th AI point installed on the Control/Wave Milcro Hardware AI 96, the 96th AI point installed on the Control/Wave Milcro Hardware AI 97, the 97th AI point installed on the Control/Wave Milcro Hardware AI 97, the 97th AI point installed on the Control/Wave Milcro Hardware AI 98, the 98th AI point installed on the Control/Wave Milcro Hardware AI 99, the 99th AI point installed on the Control/Wave Milcro Hardware AI 99, the 99th AI point installed on the Control/Wave Milcro Hardware AI 99, the 99th AI point installed on the Control/Wave Milcro Hardware AI 99, the 99th AI point installed on the Control/Wave Milcro Hardware AI 99, the 99th AI point installed on the Control/Wave Milcro Station DP PID process variable span for station now there PID In = run number Station DP PID process variable span for station now there PID In = run number Station DP PID process variable span for station now there PID In = run number Station DP PID Integral for station now the PID In = run number Station DP PID derivative for station now the PID In = run number Station DP PID derivative for station now the PID In = run number Station DP PID gain for station now the PID In = run number Station DP PID gain for station now the PID In = run number Station DP PID gain for station now the PID In = run number Station DP PID gain for station now the PID In = run number Station DP PID derivative for station now the PID In = run number Station DP PID derivative for station now the PID In = run number Station DP PID derivative for station now the PID In = run number Station DP PID deriva	10304	IO_1.HWAIs_1.HWAI_91	ControlWave Micro
Hardware Al 93, the 93rd Al point installed on the ControlWave Micro Hardware Al 94, the 94th Al point installed on the ControlWave Micro Hardware Al 95, the 95th Al point installed on the ControlWave Micro Hardware Al 95, the 95th Al point installed on the ControlWave Micro Hardware Al 95, the 95th Al point installed on the ControlWave Micro Hardware Al 96, the 95th Al point installed on the ControlWave Micro Hardware Al 97, the 97th Al point installed on the ControlWave Micro Hardware Al 97, the 97th Al point installed on the ControlWave Micro Hardware Al 98, the 98th Al point installed on the ControlWave Micro Hardware Al 98, the 98th Al point installed on the ControlWave Micro Hardware Al 98, the 98th Al point installed on the ControlWave Micro Hardware Al 99, the 99th Al point installed on the ControlWave Micro Hardware Al 99, the 99th Al point installed on the ControlWave Micro Hardware Al 99, the 99th Al point installed on the ControlWave Micro Station DP PID process variable span for station in, where PID n = run number 10313 STC.DP PID 1.PV SPAN Station DP PID gain for station n, where PID n = run number 10314 STC.DP PID 1.BAIN STC.DP PID 1.INTGRL Station DP PID pintegral for station n, where PID n = run number 10315 STC.DP PID 1.DERIV Station DP PID septoint ramp rate for station n, where PID n = run number 10316 STC.DP PID 2.PV SPAN Station DP PID process variable span for station n, where PID n = run number 10317 STC.DP PID 2.PV SPAN Station DP PID gain for station n, where PID n = run number 10318 STC.DP PID 2.GAIN STC.DP PID 2.FV SPAN Station DP PID process variable span for station n, where PID n = run number 10320 STC.DP PID 2.BAIN STC.DP PID 2.BAIN STATION STATION STATION STATION Note PID n = run number 10321 STC.DP PID 2.PV SPAN Station DP PID derivative for station n, where PID n = run number 10322 STC.DP PID 2.PV SPAN STATION STATION STATION NOTE STATION NOTE STATION NOTE STATION NOTE STATION NOTE STATION NOTE STATION NOTE STATION NOTE STATION NOTE STATION NOTE STATION NOTE STATION	10305	IO 1 HWAIs 1 HWAI 92	
Hardware Al 94, the 94th Al point installed on the Control/Wave Micro Hardware Al 95, the 95th Al point installed on the Control/Wave Micro Hardware Al 95, the 95th Al point installed on the Control/Wave Micro Hardware Al 96, the 96th Al point installed on the Control/Wave Micro Hardware Al 97, the 97th Al point installed on the Control/Wave Micro Hardware Al 97, the 97th Al point installed on the Control/Wave Micro Hardware Al 97, the 97th Al point installed on the Control/Wave Micro Hardware Al 98, the 98th Al point installed on the Control/Wave Micro Hardware Al 98, the 98th Al point installed on the Control/Wave Micro Hardware Al 98, the 99th Al point installed on the Control/Wave Micro Station DP PID process variable span for station n, where PID n = run number Station DP PID process variable span for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID process variable span for station n, where PID n = run number Station DP PID septoint ramp rate for station n, where PID n = run number Station DP PID derivative for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PI	10000	IO_IIIWAIS_IIIWAI_0Z	Hardware Al 93, the 93rd Al point installed on the
10307 IO 1.HWAIs 1.HWAI 94 ControlWave Micro Hardware Al 95, the 95th Al point installed on the ControlWave Micro Hardware Al 96, the 96th Al point installed on the ControlWave Micro Hardware Al 97, the 97th Al point installed on the ControlWave Micro Hardware Al 97, the 97th Al point installed on the ControlWave Micro Hardware Al 97, the 97th Al point installed on the ControlWave Micro Hardware Al 97, the 97th Al point installed on the ControlWave Micro Hardware Al 98, the 98th Al point installed on the ControlWave Micro Hardware Al 99, the 99th Al point installed on the ControlWave Micro Hardware Al 99, the 99th Al point installed on the ControlWave Micro Station DP PID process variable span for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID integral for station n, where PID n = run number Station DP PID seption tramp rate for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID ga	10306	IO_1.HWAIs_1.HWAI_93	ControlWave Micro
Hardware Al 95, the 95th Al point installed on the Control/Wave Micro	10307	IO 1.HWAIs 1.HWAI 94	
Hardware AI 96, the 96th AI point installed on the ControlWave Micro Hardware AI 97, the 97th AI point installed on the ControlWave Micro Hardware AI 97, the 97th AI point installed on the ControlWave Micro Hardware AI 98, the 98th AI point installed on the ControlWave Micro Hardware AI 98, the 98th AI point installed on the ControlWave Micro Hardware AI 98, the 98th AI point installed on the ControlWave Micro Hardware AI 99, the 98th AI point installed on the ControlWave Micro Hardware AI 99, the 98th AI point installed on the ControlWave Micro Station DP PID process variable span for station the ControlWave Micro Station DP PID process variable span for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID span for station n, where PID n = run number Station DP PID septoint ramp rate for station n, where PID n = run number Station DP PID derivative for station n, where PID n = run number Station DP PID process variable span for station n, where PID n = run number Station DP PID process variable span for station n, where PID n = run number Station DP PID process variable span for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID process variable span for station n, where PID n = run number Station DP PID septoint ramp rate for station n, where PID n = run number Station DP PID septoint ramp rate for station n, where PID n = run number Station DP PID derivative for station n, where PID n = run number Station DP PID derivative for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number			Hardware Al 95, the 95th Al point installed on the
10309 IO_1.HWAIs_1.HWAI_96 ControlWave Micro Hardware Al 97, the 97th Al point installed on the ControlWave Micro Hardware Al 98, the 98th Al point installed on the ControlWave Micro Hardware Al 99, the 99th Al point installed on the ControlWave Micro Hardware Al 99, the 99th Al point installed on the ControlWave Micro Hardware Al 99, the 99th Al point installed on the ControlWave Micro Hardware Al 99, the 99th Al point installed on the ControlWave Micro Station DP PID process variable span for station not perform the process variable span for station not perform the process variable span for station not perform the process variable span for station not perform the process variable span for station not perform the process variable span for station not perform the process variable span for station not perform the process variable span for station not perform the process variable span for station not perform the process variable span for station not perform the process variable span for station not perform the process variable span for station not perform the process variable span for station not perform the process variable span for station not perform the process variable span for station not perform the process variable span for station not perform the process variable span for station not perform the process variable span for station not perform the perform the process variable span for station not perform the perform the performance pe	10308	IO_1.HWAIs_1.HWAI_95	
10310 IO_1.HWAIs_1.HWAI_97 ControlWave Micro	10309	IO_1.HWAIs_1.HWAI_96	ControlWave Micro
10311 IO 1.HWAIs 1.HWAI 98 ControlWave Micro Hardware Al 99, the 99th Al point installed on the ControlWave Micro Station DP PID process variable span for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID septoint ramp rate for station n, where PID n = run number Station DP PID septoint ramp rate for station n, where PID n = run number Station DP PID septoint ramp rate for station n, where PID n = run number Station DP PID septoint ramp rate for station n, where PID n = run number Station DP PID derivative for station n, where PID n = run number Station DP PID process variable span for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID septoint ramp rate for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID derivative for station n, where PID n = run number Station DP PID derivative for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number St	10310	IO_1.HWAIs_1.HWAI_97	ControlWave Micro
10312 IO_1.HWAIs_1.HWAI_99 Station DP PID process variable span for station n, where PID_n = run number	10311	IO_1.HWAIs_1.HWAI_98	
Station DP PID process variable span for station n, where PID n = run number STC.DP PID 1.GAIN STC.DP PID 1.GAIN STC.DP PID 1.INTGRL STC.DP PID 1.INTGRL STC.DP PID 1.DERIV STC.DP PID 1.DERIV STC.DP PID 1.SP RAMPRATE 10318 STC.DP PID 2.PV SPAN STC.DP PID 2.PV SPAN STC.DP PID 2.GAIN STC.DP PID 2.GAIN STC.DP PID 2.GAIN STC.DP PID 2.GAIN STC.DP PID 2.DERIV STC.DP PID 2.DERIV STC.DP PID 2.DERIV STC.DP PID 2.DERIV STC.DP PID 2.SP RAMPRATE 10320 STC.DP PID 2.DERIV STC.DP PID 2.SP RAMPRATE STC.DP PID 2.DERIV STC.DP PID 2.SP RAMPRATE STC.DP PID 2.DERIV STC.DP PID 2.SP RAMPRATE STC.DP PID 2.SP RAMPRATE STC.DP PID 2.SP RAMPRATE STC.DP PID 2.SP RAMPRATE STC.DP PID 3.PV SPAN STC.DP PID 3.PV SPAN STC.DP PID 3.PV SPAN STC.DP PID 3.PV SPAN STC.DP PID 3.GAIN STC.DP PID 3.GAIN STC.DP PID 3.GAIN STC.DP PID 3.GAIN STC.DP PID 3.GAIN STC.DP PID 3.GAIN STC.DP PID 3.GAIN STC.DP PID 3.GAIN STC.DP PID 3.GAIN STC.DP PID 3.GAIN STC.DP PID 3.GAIN STC.DP PID 3.GAIN STC.DP PID 3.GAIN STC.DP PID 3.GAIN STC.DP PID 3.GAIN STC.DP PID 3.GAIN STATION DP PID pointegral for station n, where PID n = run number STATION DP PID paint for station n, where PID n = run number STC.DP PID 3.GAIN STC.DP PID 3.GAIN STC.DP PID 3.GAIN STC.DP PID 3.GAIN	10312	IO 1 HWAIs 1 HWAI 99	
Station DP PID gain for station n, where PID_n = run number Station DP PID integral for station n, where PID_n = run number Station DP PID integral for station n, where PID_n = run number Station DP PID septoint ramp rate for station n, where PID_n = run number Station DP PID derivative for station n, where PID_n = run number Station DP PID derivative for station n, where PID_n = run number Station DP PID process variable span for station n, where PID_n = run number Station DP PID gain for station n, where PID_n = run number Station DP PID gain for station n, where PID_n = run number Station DP PID gain for station n, where PID_n = run number Station DP PID beptoint ramp rate for station n, where PID_n = run number Station DP PID septoint ramp rate for station n, where PID_n = run number Station DP PID derivative for station n, where PID_n = run number Station DP PID derivative for station n, where PID_n = run number Station DP PID derivative for station n, where PID_n = run number Station DP PID process variable span for station n, where PID_n = run number Station DP PID gain for station n, where PID_n = run number Station DP PID gain for station n, where PID_n = run number Station DP PID gain for station n, where PID_n = run number Station DP PID gain for station n, where PID_n = run number			Station DP PID process variable span for station
10314 STC.DP_PID_1.GAIN 10315 STC.DP_PID_1.INTGRL 10316 STC.DP_PID_1.INTGRL 10316 STC.DP_PID_1.DERIV 10317 STC.DP_PID_1.DERIV 10318 STC.DP_PID_1.SP_RAMPRATE 10319 STC.DP_PID_2.PV_SPAN 10319 STC.DP_PID_2.GAIN 10320 STC.DP_PID_2.INTGRL 10321 STC.DP_PID_2.DERIV 10322 STC.DP_PID_2.SP_RAMPRATE 10323 STC.DP_PID_2.SP_RAMPRATE 10324 STC.DP_PID_3.GAIN 10324 STC.DP_PID_3.GAIN 10324 STC.DP_PID_3.GAIN 10325 STC.DP_PID_3.GAIN 10326 STC.DP_PID_3.GAIN 10327 STC.DP_PID_3.PV_SPAN 10328 STC.DP_PID_3.PV_SPAN 10329 STC.DP_PID_3.SP_RAMPRATE 10320 STC.DP_PID_3.SP_RAMPRATE 10320 STC.DP_PID_3.SP_RAMPRATE 10321 STC.DP_PID_3.SP_RAMPRATE 10322 STC.DP_PID_3.SP_SPAN 10323 STC.DP_PID_3.GAIN STC.DP_PID_3.GAIN STC.DP_PID_3.GAIN STC.DP_PID_3.GAIN STC.DP_PID_3.GAIN STC.DP_PID_3.GAIN STC.DP_PID_3.GAIN STC.DP_PID_3.GAIN STC.DP_PID_3.GAIN STC.DP_PID_in_erun number Station DP_PID in erun number Station DP_PID in_erun number Station DP_PID gain for station n, where PID_n = run number Station DP_PID process variable span for station n, where PID_n = run number Station DP_PID_n erun number Station DP_PID_n erun number Station DP_PID_n erun number Station DP_PID_n erun number Station DP_PID_n erun number Station DP_PID_n erun number Station DP_PID_n erun number Station DP_PID_n erun number Station DP_PID_n erun number	10313	STO.DF_FID_1.FV_SFAIN	
10315 STC.DP PID 1.INTGRL 10316 STC.DP PID 1.DERIV Station DP PID septoint ramp rate for station n, where PID n = run number Station DP PID derivative for station n, where PID n = run number Station DP PID process variable span for station n, where PID n = run number Station DP PID process variable span for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID integral for station n, where PID n = run number Station DP PID integral for station n, where PID n = run number Station DP PID septoint ramp rate for station n, where PID n = run number Station DP PID derivative for station n, where PID n = run number Station DP PID derivative for station n, where PID n = run number Station DP PID process variable span for station n, where PID n = run number Station DP PID process variable span for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID process variable span for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number Station DP PID gain for station n, where PID n = run number	10314	STC.DP_PID_1.GAIN	run number
10316STC.DP_PID_1.DERIVwhere PID_n = run number10317STC.DP_PID_1.SP_RAMPRATEStation DP PID derivative for station n, where PID_n = run number10318STC.DP_PID_2.PV_SPANStation DP PID process variable span for station n, where PID_n = run number10319STC.DP_PID_2.PV_SPANStation DP PID gain for station n, where PID_n = run number10320STC.DP_PID_2.GAINStation DP PID integral for station n, where PID_n = run number10321STC.DP_PID_2.INTGRLPID_n = run number10322STC.DP_PID_2.DERIVStation DP PID septoint ramp rate for station n, where PID_n = run number10323STC.DP_PID_2.SP_RAMPRATEStation DP PID derivative for station n, where PID_n = run number10324STC.DP_PID_3.GAINStation DP PID gain for station n, where PID_n = run number10324STC.DP_PID_3.GAINStation DP PID integral for station n, where	10315	STC.DP_PID_1.INTGRL	PID_n = run number
Station DP PID derivative for station n, where PID n = run number Station DP PID process variable span for station n, where PID n = run number Station DP PID process variable span for station n, where PID n = run number Station DP PID gain for station n, where PID_n = run number Station DP PID gain for station n, where PID_n = run number Station DP PID integral for station n, where PID_n = run number Station DP PID septoint ramp rate for station n, where PID_n = run number Station DP PID derivative for station n, where PID_n = run number Station DP PID derivative for station n, where PID_n = run number Station DP PID process variable span for station n, where PID_n = run number Station DP PID gain for station n, where PID_n = run number Station DP PID gain for station n, where PID_n = run number Station DP PID gain for station n, where PID_n = run number Station DP PID gain for station n, where PID_n = run number Station DP PID integral for station n, where	10010	OTO DD DID 4 DEDIV	
10317 STC.DP_PID_1.SP_RAMPRATE PID_n = run number Station DP PID process variable span for station n, where PID_n = run number Station DP PID gain for station n, where PID_n = run number Station DP PID gain for station n, where PID_n = run number Station DP PID integral for station n, where PID_n = run number Station DP PID septoint ramp rate for station n, where PID_n = run number Station DP PID derivative for station n, where PID_n = run number Station DP PID derivative for station n, where PID_n = run number Station DP PID process variable span for station n, where PID_n = run number Station DP PID gain for station n, where PID_n = run number Station DP PID gain for station n, where PID_n = run number Station DP PID gain for station n, where PID_n = run number Station DP PID integral for station n, where PID_n = run number Station DP PID integral for station n, where PID_n = run number	10316	STC.DP_PID_1.DERIV	
10318 STC.DP_PID_2.PV_SPAN 10319 STC.DP_PID_2.GAIN 10320 STC.DP_PID_2.INTGRL 10321 STC.DP_PID_2.DERIV 10322 STC.DP_PID_2.SP_RAMPRATE 10323 STC.DP_PID_3.PV_SPAN 10324 STC.DP_PID_3.GAIN 10324 STC.DP_PID_3.GAIN 10325 STC.DP_PID_3.GAIN 10326 STC.DP_PID_3.GAIN 10327 STC.DP_PID_3.GAIN 10328 STC.DP_PID_3.GAIN 10329 STC.DP_PID_3.GAIN 10329 STC.DP_PID_3.GAIN 10320 STC.DP_PID_3.GAIN 10320 STC.DP_PID_3.GAIN 10320 STC.DP_PID_3.GAIN 10321 STC.DP_PID_3.GAIN 10322 STC.DP_PID_3.GAIN 10323 STC.DP_PID_3.GAIN 10324 STC.DP_PID_3.GAIN 10325 STC.DP_PID_3.GAIN 10326 STC.DP_PID_3.GAIN 10327 STC.DP_PID_3.GAIN 10328 STC.DP_PID_3.GAIN 10329 STC.DP_PID_3.GAIN 10329 STC.DP_PID_3.GAIN 10320 STC.DP_PID_1. STATION INTEGRAL FOR STATION INTE	10317	STC.DP_PID_1.SP_RAMPRATE	PID n = run number
Station DP PID gain for station n, where PID_n = run number Station DP PID integral for station n, where PID_n = run number Station DP PID integral for station n, where PID_n = run number Station DP PID septoint ramp rate for station n, where PID_n = run number Station DP PID derivative for station n, where PID_n = run number Station DP PID derivative for station n, where PID_n = run number Station DP PID process variable span for station n, where PID_n = run number Station DP PID gain for station n, where PID_n = run number Station DP PID gain for station n, where PID_n = run number Station DP PID gain for station n, where PID_n = run number Station DP PID gain for station n, where PID_n = run number Station DP PID gain for station n, where PID_n = run number	10318	STC.DP_PID_2.PV_SPAN	n, where PID_n = run number
Station DP PID integral for station n, where PID_n = run number Station DP PID septoint ramp rate for station n, where PID_n = run number Station DP PID septoint ramp rate for station n, where PID_n = run number Station DP PID derivative for station n, where PID_n = run number Station DP PID derivative for station n, where PID_n = run number Station DP PID process variable span for station n, where PID_n = run number Station DP PID gain for station n, where PID_n = run number Station DP PID gain for station n, where PID_n = run number Station DP PID integral for station n, where			Station DP PID gain for station n, where PID_n =
10320 STC.DP_PID_2.INTGRL PID_n = run number Station DP PID septoint ramp rate for station n, where PID_n = run number Station DP PID derivative for station n, where PID_n = run number Station DP PID derivative for station n, where PID_n = run number Station DP PID process variable span for station n, where PID_n = run number Station DP PID gain for station n, where PID_n = run number Station DP PID gain for station n, where PID_n = run number Station DP PID integral for station n, where	10318	OTO.DF_FID_2.GAIIN	
10321 STC.DP_PID_2.DERIV where PID_n = run number 10322 STC.DP_PID_2.SP_RAMPRATE Station DP PID derivative for station n, where PID_n = run number 10323 STC.DP_PID_3.PV_SPAN Station DP PID process variable span for station n, where PID_n = run number 10324 STC.DP_PID_3.GAIN Station DP PID gain for station n, where PID_n = run number Station DP PID integral for station n, where	10320	STC.DP_PID_2.INTGRL	PID n = run number
10322 STC.DP_PID_2.SP_RAMPRATE PID_n = run number Station DP PID process variable span for station n, where PID_n = run number Station DP PID gain for station n, where PID_n = run number Station DP PID gain for station n, where PID_n = run number STC.DP_PID_3.GAIN Station DP PID integral for station n, where	10321	STC.DP_PID_2.DERIV	where PID_n = run number
Station DP PID process variable span for station n, where PID_n = run number Station DP PID gain for station n, where PID_n = run number Station DP PID gain for station n, where PID_n = run number Station DP PID integral for station n, where	10322	STC.DP PID 2.SP RAMPRATE	
Station DP PID gain for station n, where PID_n = run number Station DP PID integral for station n, where PID_n = run number Station DP PID integral for station n, where			Station DP PID process variable span for station
10324 STC.DP_PID_3.GAIN run number Station DP PID integral for station n, where	10323	STO.DF_FID_S.FV_SPAIN	Station DP PID gain for station n, where PID n =
	10324	STC.DP_PID_3.GAIN	run number
	10325	STC.DP_PID_3.INTGRL	

Reg#	Variable	Description
		Station DP PID septoint ramp rate for station n,
10326	STC.DP_PID_3.DERIV	where PID_n = run number
40007	CTC DD DID 2 CD DAMPDATE	Station DP PID derivative for station n, where
10327	STC.DP_PID_3.SP_RAMPRATE	PID_n = run number Station DP PID process variable span for station
10328	STC.DP_PID_4.PV_SPAN	n where PID n = run number
	<u> </u>	Station DP PID gain for station n, where PID_n =
10329	STC.DP_PID_4.GAIN	run number
40000	OTO DD. DID. A INTODI	Station DP PID integral for station n, where
10330	STC.DP_PID_4.INTGRL	PID_n = run number Station DP PID septoint ramp rate for station n,
10331	STC.DP PID 4.DERIV	where PID n = run number
		Station DP PID derivative for station n, where
10332	STC.DP_PID_4.SP_RAMPRATE	PID_n = run number
40000	CTC DD DID 5 DV CDAN	Station DP PID process variable span for station
10333	STC.DP_PID_5.PV_SPAN	n, where PID_n = run number Station DP PID gain for station n, where PID_n =
10334	STC.DP_PID_5.GAIN	run number
		Station DP PID integral for station n, where
10335	STC.DP_PID_5.INTGRL	PID_n = run number
10336	STC.DP PID 5.DERIV	Station DP PID septoint ramp rate for station n, where PID n = run number
10000	010.BI _I ID_0.BEIXIV	Station DP PID derivative for station n, where
10337	STC.DP_PID_5.SP_RAMPRATE	PID n = run number
		Station DP PID process variable span for station
10338	STC.DP_PID_6.PV_SPAN	n, where PID_n = run number Station DP PID gain for station n, where PID_n =
10339	STC.DP_PID_6.GAIN	run number
10000		Station DP PID integral for station n, where
10340	STC.DP_PID_6.INTGRL	PID_n = run number
10044	CTC DD DID C DEDIV	Station DP PID septoint ramp rate for station n,
10341	STC.DP_PID_6.DERIV	where PID_n = run number Station DP PID derivative for station n, where
10342	STC.DP_PID_6.SP_RAMPRATE	PID n = run number
		Station DP PID process variable span for station
10343	STC.DP_PID_7.PV_SPAN	n, where PID_n = run number
10344	STC.DP_PID_7.GAIN	Station DP PID gain for station n, where PID_n = run number
10011		Station DP PID integral for station n, where
10345	STC.DP_PID_7.INTGRL	PID_n = run number
40040	OTO DD DID 7 DEDIV	Station DP PID septoint ramp rate for station n,
10346	STC.DP_PID_7.DERIV	where PID_n = run number Station DP PID derivative for station n, where
10347	STC.DP_PID_7.SP_RAMPRATE	PID n = run number
		Station DP PID process variable span for station
10348	STC.DP_PID_8.PV_SPAN	n, where PID_n = run number
10349	STC.DP PID 8.GAIN	Station DP PID gain for station n, where PID_n = run number
10049	010.51 _1 15_0.0/414	Station DP PID integral for station n, where
10350	STC.DP_PID_8.INTGRL	PID_n = run number
40054	OTO DD DID A DEDIV	Station DP PID septoint ramp rate for station n,
10351	STC.DP_PID_8.DERIV	where PID_n = run number Station DP PID derivative for station n, where
10352	STC.DP_PID_8.SP_RAMPRATE	PID_n = run number
		Station DP PID process variable input for station
10353	STC.DP_PID_1.IRPV	n, where PID_n = run number
10254	STO DD DID 1 SETDT	Station DP PID setpoint for station n, where
10354	STC.DP_PID_1.SETPT	PID_n = run number Station DP PID process variable input for station
10355	STC.DP_PID_2.IRPV	n, where PID_n = run number
		Station DP PID setpoint for station n, where
10356	STC.DP_PID_2.SETPT	PID_n = run number

Reg#	Variable	Description
		Station DP PID process variable input for station
10357	STC.DP_PID_3.IRPV	n, where PID_n = run number
10358	STO DD DID 2 SETDT	Station DP PID setpoint for station n, where PID n = run number
10358	STC.DP_PID_3.SETPT	Station DP PID process variable input for station
10359	STC.DP PID 4.IRPV	n, where PID_n = run number
		Station DP PID setpoint for station n, where
10360	STC.DP_PID_4.SETPT	PID_n = run number
40004	OTO DD DID CIDDV	Station DP PID process variable input for station
10361	STC.DP_PID_5.IRPV	n, where PID_n = run number Station DP PID setpoint for station n, where
10362	STC.DP PID 5.SETPT	PID n = run number
		Station DP PID process variable input for station
10363	STC.DP_PID_6.IRPV	n, where PID_n = run number
40004	CTC DD DID C CETDT	Station DP PID setpoint for station n, where
10364	STC.DP_PID_6.SETPT	PID_n = run number Station DP PID process variable input for station
10365	STC.DP PID 7.IRPV	n, where PID_n = run number
		Station DP PID setpoint for station n, where
10366	STC.DP_PID_7.SETPT	PID n = run number
40007	CTO DD DID O IDDV	Station DP PID process variable input for station
10367	STC.DP_PID_8.IRPV	n, where PID_n = run number Station DP PID setpoint for station n, where
10368	STC.DP PID 8.SETPT	PID n = run number
	<u> </u>	Station Control - Station 1 Inlet Pressure value
10369	STC.CTL_SIGNALMAP_1.INSRC	source - Process Variable Span
40070	070 074 184 57	Station Control - Station 1 Inlet Pressure value
10370	STC.ST1_INLET	used for control - Process Variable Span Station Control - Station 1 Outlet Pressure value
10371	STC.CTL SIGNALMAP 1.OUTSRC	source - Process Variable Span
		Station Control - Station 1 Outlet Pressure value
10372	STC.ST1_OUTLET	used for control - Process Variable Span
10373	STC.STC_1.PID_Pmry3.PV_SPAN	Station 1 Primary3 PID process variable span
10374	STC.STC_1.PID_Pmry3.GAIN	Station 1 Primary3 PID gain
10375	STC.STC_1.PID_Pmry3.INTGRL	Station 1 Primary3 PID integral
10376	STC.STC_1.PID_Pmry3.DERIV	Station 1 Primary3 PID derivative
10377	STC.STC_1.PID_Pmry3.SP_RAMPRATE	Station 1 Primary3 PID septoint ramp rate
10378	STC.STC_1.PID_FLOW.PV_SPAN	Station 1 Flow/Energy PID process variable span
10379	STC.STC_1.PID_FLOW.GAIN	Station 1 Flow/Energy PID gain
10380	STC.STC_1.PID_FLOW.INTGRL	Station 1 Flow/Energy PID integral
10381	STC.STC_1.PID_FLOW.DERIV	Station 1 Flow/Energy PID derivative
10382	STC.STC_1.PID_FLOW.SP_RAMPRATE	Station 1 Flow/Energy PID septoint ramp rate
		Station 1 Pressure Override PID process variable
10383	STC.STC_1.PID_POVRD.PV_SPAN	span
10384	STC.STC_1.PID_POVRD.GAIN	Station 1 Pressure Override PID gain
10385	STC.STC_1.PID_POVRD.INTGRL	Station 1 Pressure Override PID integral
10386	STC.STC_1.PID_POVRD.DERIV	Station 1 Pressure Override PID derivative
10387	STC.STC_1.PID_POVRD.SP_RAMPRATE	Station 1 Pressure Override PID septoint ramp rate
10388	STC.STC 1.PID MAOP.PV SPAN	Station 1 MAOP PID process variable span
10389	STC.STC_1.PID_MAOP.GAIN	Station 1 MAOP PID gain
10390	STC.STC_1.PID_MAOP.INTGRL	Station 1 MAOP PID integral
10391	STC.STC 1.PID MAOP.DERIV	Station 1 MAOP PID derivative
10392	STC.STC 1.PID MAOP.SP RAMPRATE	Station 1 MAOP PID septoint ramp rate
10393	STC.STC 1.PID Ovrd1.PV SPAN	Station 1 Override1 PID process variable span
10394	STC.STC 1.PID Ovrd1.GAIN	Station 1 Override1 PID gain
10395	STC.STC 1.PID Ovrd1.INTGRL	Station 1 Override1 PID integral
10000	0.0.010_1.11D_04141.1141.01\L	1 Station 1 Overhald 1 110 integral

Reg#	Variable	Description
10396	STC.STC 1.PID Ovrd1.DERIV	Station 1 Override1 PID derivative
10397	STC.STC 1.PID Ovrd1.SP RAMPRATE	Station 1 Override1 PID septoint ramp rate
10007	010.010_1.11B_0VIQ1.01_1VIIVII 1VVIE	Station 1 Outlet Pressure Minimum PID process
10398	STC.STC_1.PID_OUTLO.PV_SPAN	variable span
10399	STC.STC 1.PID OUTLO.GAIN	Station 1 Outlet Pressure Minimum PID gain
10400	STC.STC 1.PID OUTLO.INTGRL	Station 1 Outlet Pressure Minimum PID integral
		Station 1 Outlet Pressure Minimum PID
10401	STC.STC_1.PID_OUTLO.DERIV	derivative
40400	CTO CTO 4 DID CUTLO CD DAMPDATE	Station 1 Outlet Pressure Minimum PID septoint
10402	STC.STC_1.PID_OUTLO.SP_RAMPRATE	ramp rate
10403	STC.STC 1.PID Ovrd2.PV SPAN	Station 1 Override2 PID process variable span
10404	STC.STC_1.PID_Ovrd2.GAIN	Station 1 Override2 PID gain
10405	STC.STC_1.PID_Ovrd2.INTGRL	Station 1 Override2 PID integral
10406	STC.STC_1.PID_Ovrd2.DERIV	Station 1 Override2 PID derivative
10407	STC.STC_1.PID_Ovrd2.SP_RAMPRATE	Station 1 Override2 PID septoint ramp rate
10100	CTC CTC 4 DID Draw (2 IDD)/	Station 1 Primary 3 Control - Process Variable
10408	STC.STC_1.PID_Pmry3.IRPV	Input, un-normalized Station Control - Station 1 Energy Control Local
10409	STC.CTL_PROFILE_1.L_ENERGY_SETPT	Setpoint - Process Variable Span
		Station Control - Station 1 Flow Control - Process
10410	STC.STC_1.PID_FLOW.IRPV	Variable Input, un-normalized
10111	CTC CTL DDOCUE 41 FLOW CETDT	Station Control - Station 1 Flow Control Local
10411	STC.CTL_PROFILE_1.L_FLOW_SETPT	Setpoint - Process Variable Span Station Control - Station 1 Pressure Override
10412	STC.STC 1.PID POVRD.IRPV	Control - Process Variable Input, un-normalized
		Station Control - Station 1 Outlet Pressure
10413	STC.CTL_PROFILE_1.L_PRESSURE_SETPT	Control Local Setpoint - Process Variable Span
		Station Control - Station 1 Maximum Allowable
10414	STC.STC 1.PID MAOP.IRPV	Operating Pressure Override Control - Process Variable Input, un-normalized
10414	OTO.OTO_T.I IB_IND.OT .IIKI V	Station Control - Station 1 Outlet Pressure
10415	STC.STC_1.PID_MAOP.SETPT	Control Setpoint - Process Variable Span
		Station Control - Station 1 Override 1 Control -
10416	STC.STC_1.PID_Ovrd1.IRPV	Process Variable Input, un-normalized Station Control - Station 1 Override 1 Control
10417	STC.STC 1.Ovrd STPT1	Setpoint - Process Variable Span
10417	010.010_1.0Wu_01111	Station Control - Station 1 Minumum Outlet
		Pressure Control - Process Variable Input, un-
10418	STC.STC_1.PID_OUTLO.IRPV	normalized
10410	STOCTI DEOCIIE 41 OUTMIN SETET	Station Control - Station 1 Primary 3 Control
10419	STC.CTL_PROFILE_1.L_OUTMIN_SETPT	Local Setpoint - Process Variable Span Station Control - Station 1 Override 2 Control -
10420	STC.STC 1.PID Ovrd2.IRPV	Process Variable Input, un-normalized
		Station Control - Station 1 Override 2 Control
10421	STC.STC_1.Ovrd_STPT2	Setpoint - Process Variable Span
10422	STO STO 1 MAN DOS	Station Control - Station 1 Manual Position - Process Variable Span
10422	STC.STC_1.MAN_POS	Station Control - Station 1 Manual Ramp Rate -
10423	STC.STC_1.MAN_RAMP	Process Variable Span
		Station Control - Station 1 PID Output- Process
10424	STC.ST1_PID_OUT	Variable Span
10405	CTC CTC 4 ACTIVE DID	Station Control - Active PID Loop 1 - Process
10425	STC.STC_1.ACTIVE_PID	Variable Span Station Control - Station 2 Inlet Pressure value
10426	STC.CTL SIGNALMAP 2.INSRC	source - Process Variable Span
		Station Control - Station 2 Inlet Pressure value
10427	STC.ST2_INLET	used for control - Process Variable Span
10100	CTC CTL CICNALMAD 2 OUTCDC	Station Control - Station 2 Outlet Pressure value
10428	STC.CTL_SIGNALMAP_2.OUTSRC	source - Process Variable Span
10429	STC.ST2_OUTLET	Station Control - Station 2 Outlet Pressure value

Reg#	Variable	Description
i tog.	Variable	used for control - Process Variable Span
10430	STC.STC_2.PID_Pmry3.PV_SPAN	Station 2 Primary3 PID process variable span
10431	STC.STC 2.PID Pmry3.GAIN	Station 2 Primary3 PID gain
10432	STC.STC 2.PID Pmry3.INTGRL	Station 2 Primary3 PID integral
10433	STC.STC_2.PID_Pmry3.DERIV	Station 2 Primary3 PID derivative
10434	STC.STC_2.PID_Pmry3.SP_RAMPRATE	Station 2 Primary3 PID septoint ramp rate
10435	STC.STC 2.PID FLOW.PV SPAN	Station 2 Flow/Energy PID process variable span
10436	STC.STC 2.PID FLOW.GAIN	Station 2 Flow/Energy PID gain
10437	STC.STC 2.PID FLOW.INTGRL	Station 2 Flow/Energy PID integral
10438	STC.STC 2.PID FLOW.DERIV	Station 2 Flow/Energy PID derivative
10439	STC.STC 2.PID FLOW.SP RAMPRATE	Station 2 Flow/Energy PID septoint ramp rate
		Station 2 Pressure Override PID process variable
10440	STC.STC_2.PID_POVRD.PV_SPAN	span
10441	STC.STC_2.PID_POVRD.GAIN	Station 2 Pressure Override PID gain
10442	STC.STC_2.PID_POVRD.INTGRL	Station 2 Pressure Override PID integral
10443	STC.STC_2.PID_POVRD.DERIV	Station 2 Pressure Override PID derivative
10444	STC.STC 2.PID POVRD.SP RAMPRATE	Station 2 Pressure Override PID septoint ramp rate
10445	STC.STC 2.PID MAOP.PV SPAN	Station 2 MAOP PID process variable span
10446	STC.STC 2.PID MAOP.GAIN	Station 2 MAOP PID gain
10447	STC.STC 2.PID MAOP.INTGRL	Station 2 MAOP PID integral
10447	STC.STC 2.PID MAOP.DERIV	Station 2 MAOP PID derivative
10449	STC.STC 2.PID MAOP.SP RAMPRATE	Station 2 MAOP PID septoint ramp rate
10450	STC.STC 2.PID Ovrd1.PV SPAN	Station 2 Override1 PID process variable span
10451	STC.STC 2.PID Ovrd1.GAIN	Station 2 Override1 PID gain
10451	STC.STC 2.PID Ovrd1.INTGRL	Station 2 Override1 PID integral
10453	STC.STC 2.PID Ovrd1.DERIV	Station 2 Override1 PID derivative
10454	STC.STC 2.PID Ovrd1.SP RAMPRATE	Station 2 Override1 PID septoint ramp rate
10101	OTO.OTO_Z.II IB_OVIGT.OT _TV IIVII TV ITE	Station 2 Outlet Pressure Minimum PID process
10455	STC.STC_2.PID_OUTLO.PV_SPAN	variable span
10456	STC.STC_2.PID_OUTLO.GAIN	Station 2 Outlet Pressure Minimum PID gain
10457	STC.STC_2.PID_OUTLO.INTGRL	Station 2 Outlet Pressure Minimum PID integral
10458	STC.STC_2.PID_OUTLO.DERIV	Station 2 Outlet Pressure Minimum PID
10456	STC.STC_2.PID_OUTEO.DERIV	derivative Station 2 Outlet Pressure Minimum PID septoint
10459	STC.STC_2.PID_OUTLO.SP_RAMPRATE	ramp rate
10460	STC.STC_2.PID_Ovrd2.PV_SPAN	Station 2 Override2 PID process variable span
10461	STC.STC_2.PID_Ovrd2.GAIN	Station 2 Override2 PID gain
10462	STC.STC_2.PID_Ovrd2.INTGRL	Station 2 Override2 PID integral
10463	STC.STC_2.PID_Ovrd2.DERIV	Station 2 Override2 PID derivative
10464	STC.STC_2.PID_Ovrd2.SP_RAMPRATE	Station 2 Override2 PID septoint ramp rate
		Station Control - Station 2 Primary 3 Control -
10465	STC.STC_2.PID_Pmry3.IRPV	Process Variable Input, un-normalized Station Control - Station 2 Energy Control Local
10466	STC.CTL_PROFILE_2.L_ENERGY_SETPT	Setpoint - Process Variable Span
		Station Control - Station 2 Flow Control - Process
10467	STC.STC_2.PID_FLOW.IRPV	Variable Input, un-normalized
10468	STC.CTL_PROFILE_2.L_FLOW_SETPT	Station Control - Station 2 Flow Control Local Setpoint - Process Variable Span
10400	010.01L_1 NOTILL_2.L_1 LOW_0L 1	Station Control - Station 2 Pressure Override
10469	STC.STC_2.PID_POVRD.IRPV	Control - Process Variable Input, un-normalized
40470	OTO OTI, DDOCILE OL DDECOUDE CETET	Station Control - Station 2 Outlet Pressure
10470	STC.CTL_PROFILE_2.L_PRESSURE_SETPT	Control Local Setpoint - Process Variable Span
10471	STC.STC_2.PID_MAOP.IRPV	Station Control - Station 2 Maximum Allowable

Reg#	Variable	Description
		Operating Pressure Override Control - Process
		Variable Input, un-normalized
40.470	OTO OTO A DID MACD OFFI	Station Control - Station 2 Outlet Pressure
10472	STC.STC_2.PID_MAOP.SETPT	Control Setpoint - Process Variable Span Station Control - Station 2 Override 1 Control -
10473	STC.STC 2.PID Ovrd1.IRPV	Process Variable Input, un-normalized
10470	010.010_2.11b_0vid1.ii(i v	Station Control - Station 2 Override 1 Control
10474	STC.STC_2.Ovrd_STPT1	Setpoint - Process Variable Span
		Station Control - Station 2 Minumum Outlet
40.475	OTO OTO A RIP OUTLO IRRY	Pressure Control - Process Variable Input, un-
10475	STC.STC_2.PID_OUTLO.IRPV	normalized Station Control - Station 2 Primary 3 Control
10476	STC.CTL_PROFILE_2.L_OUTMIN_SETPT	Local Setpoint - Process Variable Span
		Station Control - Station 2 Override 2 Control -
10477	STC.STC_2.PID_Ovrd2.IRPV	Process Variable Input, un-normalized
		Station Control - Station 2 Override 2 Control
10478	STC.STC_2.Ovrd_STPT2	Setpoint - Process Variable Span
10479	STC.STC 2.MAN POS	Station Control - Station 2 Manual Position - Process Variable Span
10473	310.310_2.WAN_1 03	Station Control - Station 2 Manual Ramp Rate -
10480	STC.STC_2.MAN_RAMP	Process Variable Span
		Station Control - Station 2 PID Output- Process
10481	STC.ST2_PID_OUT	Variable Span
10482	STC.STC 2.ACTIVE PID	Station Control - Active PID Loop 2 - Process
10402	STC.STC_Z.ACTIVE_FID	Variable Span Station Control - Station 3 Inlet Pressure value
10483	STC.CTL SIGNALMAP 3.INSRC	source - Process Variable Span
		Station Control - Station 3 Inlet Pressure value
10484	STC.ST3_INLET	used for control - Process Variable Span
10105	OTO OTI CIONALIMA O CUITODO	Station Control - Station 3 Outlet Pressure value
10485	STC.CTL_SIGNALMAP_3.OUTSRC	source - Process Variable Span Station Control - Station 3 Outlet Pressure value
10486	STC.ST3_OUTLET	used for control - Station 3 Outlet Pressure value
10487	STC.STC_3.PID_Pmry3.PV_SPAN	Station 3 Primary3 PID process variable span
10488	STC.STC_3.PID_Pmry3.GAIN	Station 3 Primary3 PID gain
10489	STC.STC_3.PID_Pmry3.INTGRL	Station 3 Primary3 PID integral
10499	STC.STC_3.PID_Pmry3.DERIV	
		Station 3 Primary3 PID derivative
10491	STC.STC 3.PID Pmry3.SP RAMPRATE	Station 3 Primary3 PID septoint ramp rate
10492	STC.STC 3.PID_FLOW.PV_SPAN	Station 3 Flow/Energy PID process variable span
10493	STC.STC_3.PID_FLOW.GAIN	Station 3 Flow/Energy PID gain
10494	STC.STC_3.PID_FLOW.INTGRL	Station 3 Flow/Energy PID integral
10495	STC.STC_3.PID_FLOW.DERIV	Station 3 Flow/Energy PID derivative
10496	STC.STC_3.PID_FLOW.SP_RAMPRATE	Station 3 Flow/Energy PID septoint ramp rate
10407	STC STC 3 DID DOWDD DW SDAN	Station 3 Pressure Override PID process variable
10497	STC.STC_3.PID_POVRD.PV_SPAN	span
10498	STC.STC_3.PID_POVRD.INTCRI	Station 3 Pressure Override PID gain
10499	STC.STC_3.PID_POVRD.INTGRL	Station 3 Pressure Override PID integral
10500	STC.STC_3.PID_POVRD.DERIV	Station 3 Pressure Override PID derivative
10501	STC.STC 3.PID POVRD.SP RAMPRATE	Station 3 Pressure Override PID septoint ramp rate
10502	STC.STC 3.PID MAOP.PV SPAN	Station 3 MAOP PID process variable span
10502	STC.STC_3.PID_MAOP.GAIN	Station 3 MAOP PID gain
10503	STC.STC 3.PID MAOP.INTGRL	Station 3 MAOP PID integral
		-
10505	STC.STC_3.PID_MAOD.SD_DAMDDATE	Station 3 MAOP PID derivative
10506	STC.STC_3.PID_MAOP.SP_RAMPRATE	Station 3 MAOP PID septoint ramp rate
10507	STC.STC 3.PID_Ovrd1.PV_SPAN	Station 3 Override1 PID process variable span
10508	STC.STC_3.PID_Ovrd1.GAIN	Station 3 Override1 PID gain

Reg#	Variable	Description
10509	STC.STC_3.PID_Ovrd1.INTGRL	Station 3 Override1 PID integral
10510	STC.STC_3.PID_Ovrd1.DERIV	Station 3 Override1 PID derivative
10511	STC.STC 3.PID Ovrd1.SP RAMPRATE	Station 3 Override1 PID septoint ramp rate
		Station 3 Outlet Pressure Minimum PID process
10512	STC.STC_3.PID_OUTLO.PV_SPAN	variable span
10513	STC.STC_3.PID_OUTLO.GAIN	Station 3 Outlet Pressure Minimum PID gain
10514	STC.STC_3.PID_OUTLO.INTGRL	Station 3 Outlet Pressure Minimum PID integral Station 3 Outlet Pressure Minimum PID
10515	STC.STC 3.PID OUTLO.DERIV	derivative
10010	010.010_0.11B_001E0.BE141V	Station 3 Outlet Pressure Minimum PID septoint
10516	STC.STC_3.PID_OUTLO.SP_RAMPRATE	ramp rate
10517	STC.STC_3.PID_Ovrd2.PV_SPAN	Station 3 Override2 PID process variable span
10518	STC.STC_3.PID_Ovrd2.GAIN	Station 3 Override2 PID gain
10519	STC.STC_3.PID_Ovrd2.INTGRL	Station 3 Override2 PID integral
10520	STC.STC_3.PID_Ovrd2.DERIV	Station 3 Override2 PID derivative
10521	STC.STC_3.PID_Ovrd2.SP_RAMPRATE	Station 3 Override2 PID septoint ramp rate
40500	CTC CTC 2 DID Draw 2 IDDV	Station Control - Station 3 Primary 3 Control -
10522	STC.STC_3.PID_Pmry3.IRPV	Process Variable Input, un-normalized Station Control - Station 3 Energy Control Local
10523	STC.CTL_PROFILE_3.L_ENERGY_SETPT	Setpoint - Process Variable Span
		Station Control - Station 3 Flow Control -
10524	STC.STC_3.PID_FLOW.IRPV	Process Variable Input, un-normalized
10525	STC.CTL_PROFILE_3.L_FLOW_SETPT	Station Control - Station 3 Flow Control Local Setpoint - Process Variable Span
10020	OTO.OTE_TROTIEE_C.E_TEOW_GETTT	Station Control - Station 3 Pressure Override
10526	STC.STC_3.PID_POVRD.IRPV	Control - Process Variable Input, un-normalized
40507	OTO OTI DEOCHE AL DECOLUES OFTEN	Station Control - Station 3 Outlet Pressure
10527	STC.CTL_PROFILE_3.L_PRESSURE_SETPT	Control Local Setpoint - Process Variable Span Station Control - Station 3 Maximum Allowable
		Operating Pressure Override Control - Process
10528	STC.STC_3.PID_MAOP.IRPV	Variable Input, un-normalized
40500	CTC CTC 2 DID MACD CETDT	Station Control - Station 3 Outlet Pressure
10529	STC.STC_3.PID_MAOP.SETPT	Control Setpoint - Process Variable Span Station Control - Station 3 Override 1 Control -
10530	STC.STC_3.PID_Ovrd1.IRPV	Process Variable Input, un-normalized
		Station Control - Station 3 Override 1 Control
10531	STC.STC_3.Ovrd_STPT1	Setpoint - Process Variable Span Station Control - Station 3 Minumum Outlet
		Pressure Control - Process Variable Input, un-
10532	STC.STC_3.PID_OUTLO.IRPV	normalized
		Station Control - Station 3 Primary 3 Control
10533	STC.CTL_PROFILE_3.L_OUTMIN_SETPT	Local Setpoint - Process Variable Span Station Control - Station 3 Override 2 Control -
10534	STC.STC 3.PID Ovrd2.IRPV	Process Variable Input, un-normalized
		Station Control - Station 3 Override 2 Control
10535	STC.STC_3.Ovrd_STPT2	Setpoint - Process Variable Span
10536	STC.STC 3.MAN POS	Station Control - Station 3 Manual Position - Process Variable Span
10000	- 0.0.0.0_0.000.00_1 00	Station Control - Station 3 Manual Ramp Rate -
10537	STC.STC_3.MAN_RAMP	Process Variable Span
10500	CTC CT2 DID OUT	Station Control - Station 3 PID Output- Process
10538	STC.ST3_PID_OUT	Variable Span Station Control - Active PID Loop 3 - Process
10539	STC.STC_3.ACTIVE_PID	Variable Span
		Station Control - Station 4 Inlet Pressure value
10540	STC.CTL_SIGNALMAP_4.INSRC	source - Process Variable Span
10541	STC.ST4 INLET	Station Control - Station 4 Inlet Pressure value used for control - Process Variable Span
.0041		Station Control - Station 4 Outlet Pressure value
10542	STC.CTL_SIGNALMAP_4.OUTSRC	source - Process Variable Span

Reg#	Variable	Description
		Station Control - Station 4 Outlet Pressure value
10543	STC.ST4_OUTLET	used for control - Process Variable Span
10544	STC.STC_4.PID_Pmry3.PV_SPAN	Station 4 Primary3 PID process variable span
10545	STC.STC_4.PID_Pmry3.GAIN	Station 4 Primary3 PID gain
10546	STC.STC_4.PID_Pmry3.INTGRL	Station 4 Primary3 PID integral
10547	STC.STC_4.PID_Pmry3.DERIV	Station 4 Primary3 PID derivative
10548	STC.STC_4.PID_Pmry3.SP_RAMPRATE	Station 4 Primary3 PID septoint ramp rate
10549	STC.STC_4.PID_FLOW.PV_SPAN	Station 4 Flow/Energy PID process variable span
10550	STC.STC_4.PID_FLOW.GAIN	Station 4 Flow/Energy PID gain
10551	STC.STC_4.PID_FLOW.INTGRL	Station 4 Flow/Energy PID integral
10552	STC.STC_4.PID_FLOW.DERIV	Station 4 Flow/Energy PID derivative
10553	STC.STC_4.PID_FLOW.SP_RAMPRATE	Station 4 Flow/Energy PID septoint ramp rate
		Station 4 Pressure Override PID process variable
10554	STC.STC_4.PID_POVRD.PV_SPAN	span
10555	STC.STC_4.PID_POVRD.GAIN	Station 4 Pressure Override PID gain
10556	STC.STC_4.PID_POVRD.INTGRL	Station 4 Pressure Override PID integral
10557	STC.STC_4.PID_POVRD.DERIV	Station 4 Pressure Override PID derivative
10558	STC.STC_4.PID_POVRD.SP_RAMPRATE	Station 4 Pressure Override PID septoint ramp rate
10559	STC.STC_4.PID_MAOP.PV_SPAN	Station 4 MAOP PID process variable span
10560	STC.STC_4.PID_MAOP.GAIN	Station 4 MAOP PID gain
10561	STC.STC_4.PID_MAOP.INTGRL	Station 4 MAOP PID integral
10562	STC.STC_4.PID_MAOP.DERIV	Station 4 MAOP PID derivative
10563	STC.STC_4.PID_MAOP.SP_RAMPRATE	Station 4 MAOP PID septoint ramp rate
10564	STC.STC_4.PID_Ovrd1.PV_SPAN	Station 4 Override1 PID process variable span
10565	STC.STC_4.PID_Ovrd1.GAIN	Station 4 Override1 PID gain
10566	STC.STC_4.PID_Ovrd1.INTGRL	Station 4 Override1 PID integral
10567	STC.STC_4.PID_Ovrd1.DERIV	Station 4 Override1 PID derivative
10568	STC.STC_4.PID_Ovrd1.SP_RAMPRATE	Station 4 Override1 PID septoint ramp rate
40500	OTO OTO A BID OUTLO BY ODAN	Station 4 Outlet Pressure Minimum PID process
10569	STC.STC_4.PID_OUTLO.PV_SPAN	variable span
10570	STC.STC_4.PID_OUTLO.GAIN	Station 4 Outlet Pressure Minimum PID gain
10571	STC.STC_4.PID_OUTLO.INTGRL	Station 4 Outlet Pressure Minimum PID integral Station 4 Outlet Pressure Minimum PID
10572	STC.STC 4.PID OUTLO.DERIV	derivative
		Station 4 Outlet Pressure Minimum PID septoint
10573	STC.STC_4.PID_OUTLO.SP_RAMPRATE	ramp rate
10574	STC.STC_4.PID_Ovrd2.PV_SPAN	Station 4 Override2 PID process variable span
10575	STC.STC_4.PID_Ovrd2.GAIN	Station 4 Override2 PID gain
10576	STC.STC_4.PID_Ovrd2.INTGRL	Station 4 Override2 PID integral
10577	STC.STC_4.PID_Ovrd2.DERIV	Station 4 Override2 PID derivative
10578	STC.STC_4.PID_Ovrd2.SP_RAMPRATE	Station 4 Override2 PID septoint ramp rate
10579	STC.STC 4.PID Pmry3.IRPV	Station Control - Station 4 Primary 3 Control - Process Variable Input, un-normalized
10019	OTO.OTO_TATIO_THIIYO.IIXI V	Station Control - Station 4 Energy Control Local
10580	STC.CTL_PROFILE_4.L_ENERGY_SETPT	Setpoint - Process Variable Span
40	070 070 4 BID 51 01111511	Station Control - Station 4 Flow Control -
10581	STC.STC_4.PID_FLOW.IRPV	Process Variable Input, un-normalized Station Control - Station 4 Flow Control Local
10582	STC.CTL PROFILE 4.L FLOW SETPT	Station Control - Station 4 Flow Control Local Setpoint - Process Variable Span
10002		Station Control - Station 4 Pressure Override
10583	STC.STC_4.PID_POVRD.IRPV	Control - Process Variable Input, un-normalized
40504	CTC CTL DDOCUE AL DDECCUDE CETOT	Station Control - Station 4 Outlet Pressure
10584	STC.CTL_PROFILE_4.L_PRESSURE_SETPT	Control Local Setpoint - Process Variable Span

Reg#	Variable	Description
		Station Control - Station 4 Maximum Allowable
		Operating Pressure Override Control - Process
10585	STC.STC_4.PID_MAOP.IRPV	Variable Input, un-normalized
		Station Control - Station 4 Outlet Pressure
10586	STC.STC_4.PID_MAOP.SETPT	Control Setpoint - Process Variable Span
10507	STC STC 4 DID Oved 1 IDDV	Station Control - Station 4 Override 1 Control -
10587	STC.STC_4.PID_Ovrd1.IRPV	Process Variable Input, un-normalized Station Control - Station 4 Override 1 Control
10588	STC.STC 4.Ovrd STPT1	Setpoint - Process Variable Span
10000	010.010_1.0414_01111	Station Control - Station 4 Minumum Outlet
		Pressure Control - Process Variable Input, un-
10589	STC.STC_4.PID_OUTLO.IRPV	normalized
		Station Control - Station 4 Primary 3 Control
10590	STC.CTL_PROFILE_4.L_OUTMIN_SETPT	Local Setpoint - Process Variable Span
40504	0T0 0T0 4 PIP 0 10 IPPV	Station Control - Station 4 Override 2 Control -
10591	STC.STC_4.PID_Ovrd2.IRPV	Process Variable Input, un-normalized Station Control - Station 4 Override 2 Control
10592	STC.STC_4.Ovrd_STPT2	Setpoint - Process Variable Span
10392	310.310_4.0VIQ_31F12	Station Control - Station 4 Manual Position -
10593	STC.STC_4.MAN_POS	Process Variable Span
		Station Control - Station 4 Manual Ramp Rate -
10594	STC.STC_4.MAN_RAMP	Process Variable Span
		Station Control - Station 4 PID Output- Process
10595	STC.ST4_PID_OUT	Variable Span
40500	070 070 A 4 070 /F DID	Station Control - Active PID Loop 4 - Process
10596	STC.STC_4.ACTIVE_PID	Variable Span Station Control - Station 4 Inlet Pressure value
10597	STC.CTL_SIGNALMAP_5.INSRC	source - Process Variable Span
10331	STO.OTE_SIGNALIMAL_S.INSINO	Station Control - Station 4 Inlet Pressure value
10598	STC.ST5 INLET	used for control - Process Variable Span
		Station Control - Station 4 Outlet Pressure value
10599	STC.CTL_SIGNALMAP_5.OUTSRC	source - Process Variable Span
		Station Control - Station 4 Outlet Pressure value
10600	STC.ST5_OUTLET	used for control - Process Variable Span
10601	STC.STC_5.PID_Pmry3.PV_SPAN	Station 5 Primary3 PID process variable span
10602	STC.STC_5.PID_Pmry3.GAIN	Station 5 Primary3 PID gain
10603	STC.STC_5.PID_Pmry3.INTGRL	Station 5 Primary3 PID integral
10604	STC.STC_5.PID_Pmry3.DERIV	Station 5 Primary3 PID derivative
10605	STC.STC 5.PID Pmry3.SP RAMPRATE	Station 5 Primary3 PID septoint ramp rate
10606	STC.STC 5.PID FLOW.PV SPAN	Station 5 Flow/Energy PID process variable span
10607	STC.STC_5.PID_FLOW.GAIN	Station 5 Flow/Energy PID gain
10608	STC.STC_5.PID_FLOW.INTGRL	Station 5 Flow/Energy PID integral
10609	STC.STC_5.PID_FLOW.DERIV	Station 5 Flow/Energy PID derivative
10610	STC.STC_5.PID_FLOW.SP_RAMPRATE	Station 5 Flow/Energy PID septoint ramp rate
40044	0T0 0T0 5 PIP POVPP PIV 07 411	Station 5 Pressure Override PID process variable
10611	STC.STC_5.PID_POVRD.PV_SPAN	span
10612	STC.STC_5.PID_POVRD.GAIN	Station 5 Pressure Override PID gain
10613	STC.STC_5.PID_POVRD.INTGRL	Station 5 Pressure Override PID integral
10614	STC.STC_5.PID_POVRD.DERIV	Station 5 Pressure Override PID derivative
		Station 5 Pressure Override PID septoint ramp
10615	STC.STC_5.PID_POVRD.SP_RAMPRATE	rate
10616	STC.STC_5.PID_MAOP.PV_SPAN	Station 5 MAOP PID process variable span
10617	STC.STC_5.PID_MAOP.GAIN	Station 5 MAOP PID gain
10618	STC.STC 5.PID MAOP.INTGRL	Station 5 MAOP PID integral
10619	STC.STC 5.PID MAOP.DERIV	Station 5 MAOP PID derivative
10620	STC.STC 5.PID MAOP.SP RAMPRATE	Station 5 MAOP PID septoint ramp rate
10621	STC.STC_5.PID_Ovrd1.PV_SPAN	Station 5 Override1 PID process variable span

Reg#	Variable	Description
10622	STC.STC 5.PID Ovrd1.GAIN	Station 5 Override1 PID gain
10623	STC.STC 5.PID Ovrd1.INTGRL	Station 5 Override1 PID integral
10624	STC.STC 5.PID Ovrd1.DERIV	Station 5 Override1 PID derivative
10625	STC.STC 5.PID Ovrd1.SP RAMPRATE	Station 5 Override1 PID septoint ramp rate
10020	010.010_0.11B_0VIQ1.01_IV.WII TVTIE	Station 5 Outlet Pressure Minimum PID process
10626	STC.STC_5.PID_OUTLO.PV_SPAN	variable span
10627	STC.STC_5.PID_OUTLO.GAIN	Station 5 Outlet Pressure Minimum PID gain
10628	STC.STC_5.PID_OUTLO.INTGRL	Station 5 Outlet Pressure Minimum PID integral
10629	STC.STC_5.PID_OUTLO.DERIV	Station 5 Outlet Pressure Minimum PID derivative
10630	STC.STC_5.PID_OUTLO.SP_RAMPRATE	Station 5 Outlet Pressure Minimum PID septoint ramp rate
10631	STC.STC_5.PID_Ovrd2.PV_SPAN	Station 5 Override2 PID process variable span
10632	STC.STC_5.PID_Ovrd2.GAIN	Station 5 Override2 PID gain
10633	STC.STC_5.PID_Ovrd2.INTGRL	Station 5 Override2 PID integral
10634	STC.STC_5.PID_Ovrd2.DERIV	Station 5 Override2 PID derivative
10635	STC.STC 5.PID Ovrd2.SP RAMPRATE	Station 5 Override2 PID septoint ramp rate
10636	STC.STC_5.PID_Pmry3.IRPV	Station Control - Station 5 Primary 3 Control - Process Variable Input, un-normalized
10637	STC.CTL_PROFILE_5.L_ENERGY_SETPT	Station Control - Station 5 Energy Control Local Setpoint - Process Variable Span
10638	STC.STC_5.PID_FLOW.IRPV	Station Control - Station 5 Flow Control - Process Variable Input, un-normalized
10639	STC.CTL_PROFILE_5.L_FLOW_SETPT	Station Control - Station 5 Flow Control Local Setpoint - Process Variable Span
10640	STC.STC 5.PID POVRD.IRPV	Station Control - Station 5 Pressure Override Control - Process Variable Input, un-normalized
10641	STC.CTL PROFILE 5.L PRESSURE SETPT	Station Control - Station 5 Outlet Pressure Control Local Setpoint - Process Variable Span
10642	STC.STC_5.PID_MAOP.IRPV	Station Control - Station 5 Maximum Allowable Operating Pressure Override Control - Process Variable Input, un-normalized
10643	STC.STC 5.PID MAOP.SETPT	Station Control - Station 5 Outlet Pressure Control Setpoint - Process Variable Span
10644	STC.STC_5.PID_Ovrd1.IRPV	Station Control - Station 5 Override 1 Control - Process Variable Input, un-normalized
	STC.STC_5.Ovrd_STPT1	Station Control - Station 5 Override 1 Control Setpoint - Process Variable Span
10646	STC.STC_5.PID_OUTLO.IRPV	Station Control - Station 5 Minumum Outlet Pressure Control - Process Variable Input, un- normalized
10647	STC.CTL_PROFILE_5.L_OUTMIN_SETPT	Station Control - Station 5 Primary 3 Control Local Setpoint - Process Variable Span
10648	STC.STC_5.PID_Ovrd2.IRPV	Station Control - Station 5 Override 2 Control - Process Variable Input, un-normalized
10649	STC.STC_5.Ovrd_STPT1	Station Control - Station 5 Override 2 Control Setpoint - Process Variable Span
10650	STC.STC_5.MAN_POS	Station Control - Station 5 Manual Position - Process Variable Span
10651	STC.STC_5.MAN_RAMP	Station Control - Station 5 Manual Ramp Rate - Process Variable Span
10652	STC.ST5_PID_OUT	Station Control - Station 5 PID Output- Process Variable Span
10653	STC.STC_5.ACTIVE_PID	Station Control - Active PID Loop 5 - Process Variable Span
10654	STC.CTL_SIGNALMAP_6.INSRC	Station Control - Station 6 Inlet Pressure value source - Process Variable Span
10655	STC.ST6_INLET	Station Control - Station 6 Inlet Pressure value used for control - Process Variable Span

Reg#	Variable	Description
		Station Control - Station 6 Outlet Pressure value
10656	STC.CTL_SIGNALMAP_6.OUTSRC	source - Process Variable Span
10657	STC.ST6 OUTLET	Station Control - Station 6 Outlet Pressure value used for control - Process Variable Span
		-
10658	STC.STC_6.PID_Pmry3.PV_SPAN	Station 6 Primary3 PID process variable span
10659	STC.STC_6.PID_Pmry3.GAIN	Station 6 Primary3 PID gain
10660	STC.STC_6.PID_Pmry3.INTGRL	Station 6 Primary3 PID integral
10661	STC.STC_6.PID_Pmry3.DERIV	Station 6 Primary3 PID derivative
10662	STC.STC_6.PID_Pmry3.SP_RAMPRATE	Station 6 Primary3 PID septoint ramp rate
10663	STC.STC_6.PID_FLOW.PV_SPAN	Station 6 Flow/Energy PID process variable span
10664	STC.STC_6.PID_FLOW.GAIN	Station 6 Flow/Energy PID gain
10665	STC.STC_6.PID_FLOW.INTGRL	Station 6 Flow/Energy PID integral
10666	STC.STC_6.PID_FLOW.DERIV	Station 6 Flow/Energy PID derivative
10667	STC.STC_6.PID_FLOW.SP_RAMPRATE	Station 6 Flow/Energy PID septoint ramp rate
10668	STC.STC 6.PID POVRD.PV SPAN	Station 6 Pressure Override PID process variable span
10669	STC.STC 6.PID POVRD.GAIN	Station 6 Pressure Override PID gain
10670	STC.STC 6.PID POVRD.INTGRL	Station 6 Pressure Override PID integral
10671	STC.STC 6.PID POVRD.DERIV	Station 6 Pressure Override PID derivative
10071	31C.31C_0.FID_FOVRD.DERIV	Station 6 Pressure Override PID septoint ramp
10672	STC.STC 6.PID POVRD.SP RAMPRATE	rate
10673	STC.STC 6.PID MAOP.PV SPAN	Station 6 MAOP PID process variable span
10674	STC.STC 6.PID MAOP.GAIN	Station 6 MAOP PID gain
10675	STC.STC 6.PID MAOP.INTGRL	Station 6 MAOP PID integral
10676	STC.STC 6.PID MAOP.DERIV	Station 6 MAOP PID derivative
10677	STC.STC 6.PID MAOP.SP RAMPRATE	Station 6 MAOP PID septoint ramp rate
10678	STC.STC 6.PID Ovrd1.PV SPAN	Station 6 Override1 PID process variable span
10679	STC.STC 6.PID Ovrd1.GAIN	Station 6 Override1 PID gain
10680	STC.STC 6.PID Ovrd1.INTGRL	Station 6 Override1 PID integral
10681	STC.STC 6.PID Ovrd1.DERIV	Station 6 Override1 PID derivative
10682	STC.STC 6.PID Ovrd1.SP RAMPRATE	Station 6 Override1 PID septoint ramp rate
		Station 6 Outlet Pressure Minimum PID process
10683	STC.STC_6.PID_OUTLO.PV_SPAN	variable span
10684	STC.STC_6.PID_OUTLO.GAIN	Station 6 Outlet Pressure Minimum PID gain
10685	STC.STC_6.PID_OUTLO.INTGRL	Station 6 Outlet Pressure Minimum PID integral
10686	STC.STC 6.PID OUTLO.DERIV	Station 6 Outlet Pressure Minimum PID derivative
10000	31C.31G_0.1 ID_001E0.DEIXIV	Station 6 Outlet Pressure Minimum PID septoint
10687	STC.STC_6.PID_OUTLO.SP_RAMPRATE	ramp rate
10688	STC.STC 6.PID Ovrd2.PV SPAN	Station 6 Override2 PID process variable span
10689	STC.STC 6.PID Ovrd2.GAIN	Station 6 Override2 PID gain
10690	STC.STC 6.PID Ovrd2.INTGRL	Station 6 Override2 PID integral
10691	STC.STC 6.PID Ovrd2.DERIV	Station 6 Override2 PID derivative
10692	STC.STC 6.PID Ovrd2.SP RAMPRATE	Station 6 Override2 PID septoint ramp rate
		Station Control - Station 6 Primary 3 Control -
10693	STC.STC_6.PID_Pmry3.IRPV	Process Variable Input, un-normalized
40007	OTO OTI, PROFILE OL ENERGY SETRI	Station Control - Station 6 Energy Control Local
10694	STC.CTL_PROFILE_6.L_ENERGY_SETPT	Setpoint - Process Variable Span Station Control - Station 6 Flow Control -
10695	STC.STC_6.PID_FLOW.IRPV	Process Variable Input, un-normalized
.0000		Station Control - Station 6 Flow Control Local
10696	STC.CTL_PROFILE_6.L_FLOW_SETPT	Setpoint - Process Variable Span
400		Station Control - Station 6 Pressure Override
10697	STC.STC_6.PID_POVRD.IRPV	Control - Process Variable Input, un-normalized

Reg#	Variable	Description
		Station Control - Station 6 Outlet Pressure
10698	STC.CTL_PROFILE_6.L_PRESSURE_SETPT	Control Local Setpoint - Process Variable Span
		Station Control - Station 6 Maximum Allowable
10699	STC.STC 6.PID MAOP.IRPV	Operating Pressure Override Control - Process Variable Input, un-normalized
10099	STC.STC_0.FID_WAOP.IRFV	Station Control - Station 6 Outlet Pressure
10700	STC.STC 6.PID MAOP.SETPT	Control Setpoint - Process Variable Span
		Station Control - Station 6 Override 1 Control -
10701	STC.STC_6.PID_Ovrd1.IRPV	Process Variable Input, un-normalized
		Station Control - Station 6 Override 1 Control
10702	STC.STC_6.Ovrd_STPT1	Setpoint - Process Variable Span
		Station Control - Station 6 Minumum Outlet
10703	STC.STC 6.PID OUTLO.IRPV	Pressure Control - Process Variable Input, un- normalized
10703	310.310_0.11b_001E0.1I(1 V	Station Control - Station 6 Primary 3 Control
10704	STC.CTL_PROFILE_6.L_OUTMIN_SETPT	Local Setpoint - Process Variable Span
		Station Control - Station 6 Override 2 Control -
10705	STC.STC_6.PID_Ovrd2.IRPV	Process Variable Input, un-normalized
40700	070 070 0 0 1 07074	Station Control - Station 6 Override 2 Control
10706	STC.STC_6.Ovrd_STPT1	Setpoint - Process Variable Span Station Control - Station 6 Manual Position -
10707	STC.STC 6.MAN POS	Process Variable Span
10707	310.310_0.IMAN_1 00	Station Control - Station 6 Manual Ramp Rate -
10708	STC.STC 6.MAN RAMP	Process Variable Span
		Station Control - Station 6 PID Output- Process
10709	STC.ST6_PID_OUT	Variable Span
		Station Control - Active PID Loop 6 - Process
10710	STC.STC_6.ACTIVE_PID	Variable Span
10711	MB.SPARE	***** RESERVED FOR FUTURE USE *****
10712	MB.SPARE	***** RESERVED FOR FUTURE USE *****
10713	MB.SPARE	***** RESERVED FOR FUTURE USE *****
10714	MB.SPARE	***** RESERVED FOR FUTURE USE *****
10715	MB.SPARE	**** RESERVED FOR FUTURE USE *****
10716	MB.SPARE	***** RESERVED FOR FUTURE USE *****
10717	MB.SPARE	***** RESERVED FOR FUTURE USE *****
10718	MB.SPARE	***** RESERVED FOR FUTURE USE *****
10719	MB.SPARE	***** RESERVED FOR FUTURE USE *****
10720	MB.SPARE	***** RESERVED FOR FUTURE USE ******
10721	MB.SPARE	***** RESERVED FOR FUTURE USE ******
		RESERVED FOR FUTURE USE
10722	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10723	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10724	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10725	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10726	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10727	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10728	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10729	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10730	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10731	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10732	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10733	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10733	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10735	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10736	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10737	MB.SPARE	*** RESERVED FOR FUTURE USE ***

M-125

Reg#	Variable	Description
10738	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10739	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10740	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10741	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10742	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10742	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10744	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10745	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10746	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10747	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10747	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10749	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10749	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10751	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10751	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10752		*** RESERVED FOR FUTURE USE ***
	MB.SPARE MB.SPARE	*** RESERVED FOR FUTURE USE ***
10754 10755	MB.SPARE MB.SPARE	*** RESERVED FOR FUTURE USE ***
10756	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10757	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10758	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10759	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10760	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10761	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10762	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10763	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10764	MB.SPARE	NESERVED FOR FOTORE OSE
10765	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10766	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10767	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10768	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10769	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10770	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10771	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10772	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10773	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10774	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10775	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10776	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10777	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10778	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10779	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10780	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10781	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10782	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10783	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10784	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10785	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10786	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10787	MB.SPARE	*** RESERVED FOR FUTURE USE ***

Reg#	Variable	Description
10788	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10789	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10790	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10791	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10792	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10793	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10794	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10795	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10796	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10797	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10797	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10799	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10800	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10801	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10801	MB.SPARE	*** RESERVED FOR FUTURE USE ***
		*** RESERVED FOR FUTURE USE ***
10803	MB.SPARE	i
10804	MB.SPARE	INESERVED FOR FOTORE OSE
10805	MB.SPARE	TREGETIVED FOR FOTORE GOL
10806	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10807	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10808	MB.SPARE	*** RESERVED FOR FUTURE USE *** *** PESERVED FOR FUTURE USE ***
10809	MB.SPARE	INESERVED FOR FOTORE OSE
10810	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10811	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10812	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10813	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10814	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10815	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10816	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10817	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10818	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10819	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10820	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10821	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10822	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10823	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10824	MB.SPARE	*** RESERVED FOR FUTURE USE ***
10825	TS.BV_1.MODE	Tube Switching - Block Valve 1 Operating Mode
10826	TS.BV_1.TRAVELTIME	Tube Switching - Block Valve 1 Travel Time
10827	TS.BV_1.PULSETIME	Tube Switching - Block Valve 1 Pulse Time
10828	TS.BV_2.MODE	Tube Switching - Block Valve 2 Operating Mode
10829	TS.BV_2.TRAVELTIME	Tube Switching - Block Valve 2 Travel Time
10830	TS.BV_2.PULSETIME	Tube Switching - Block Valve 2 Pulse Time
10831	TS.BV_3.MODE	Tube Switching - Block Valve 3 Operating Mode
10832	TS.BV_3.TRAVELTIME	Tube Switching - Block Valve 3 Travel Time
10833	TS.BV_3.PULSETIME	Tube Switching - Block Valve 3 Pulse Time
10834	TS.BV_4.MODE	Tube Switching - Block Valve 4 Operating Mode
10835	TS.BV_4.TRAVELTIME	Tube Switching - Block Valve 4 Travel Time
10836	TS.BV_4.PULSETIME	Tube Switching - Block Valve 4 Pulse Time
10837	TS.BV_5.MODE	Tube Switching - Block Valve 5 Operating Mode

Reg#	Variable	Description
10838	TS.BV 5.TRAVELTIME	Tube Switching - Block Valve 5 Travel Time
10839	TS.BV 5.PULSETIME	Tube Switching - Block Valve 5 Pulse Time
10840	TS.BV 6.MODE	Tube Switching - Block Valve 6 Operating Mode
10841	TS.BV 6.TRAVELTIME	Tube Switching - Block Valve 6 Travel Time
10842	TS.BV 6.PULSETIME	Tube Switching - Block Valve 6 Pulse Time
10843	TS.BV 7.MODE	Tube Switching - Block Valve 7 Operating Mode
10844	TS.BV 7.TRAVELTIME	Tube Switching - Block Valve 7 Travel Time
10845	TS.BV_7.PULSETIME	Tube Switching - Block Valve 7 Pulse Time
10846	TS.BV_8.MODE	Tube Switching - Block Valve 8 Operating Mode
10847	TS.BV_8.TRAVELTIME	Tube Switching - Block Valve 8 Travel Time
10848	TS.BV_8.PULSETIME	Tube Switching - Block Valve 8 Pulse Time
10849	TS.TC_1.ST1_ACTUAL_RANK	Tube Switching - Station 1 - Actual Rank of station
10850	TS.TC_1.ST1_MAXRANK	Tube Switching - Station 1 - Maximum Rank available at station
10851	TS.TC_1.ST1_REQ_RANK	Tube Switching - Station 1 - Requested Rank of station
10852	TS.ST1_T1_TSO	Tube Switching - Station 1 - Run assigned to Tube Ranked 1
10853	TS.ST1_T2_TSO	Tube Switching - Station 1 - Run assigned to Tube Ranked 2
10854	TS.ST1_T3_TSO	Tube Switching - Station 1 - Run assigned to Tube Ranked 3
10855	TS.ST1_T4_TSO	Tube Switching - Station 1 - Run assigned to Tube Ranked 4
10856	TS.ST1_T5_TSO	Tube Switching - Station 1 - Run assigned to Tube Ranked 5
10857	TS.ST1_T6_TSO	Tube Switching - Station 1 - Run assigned to Tube Ranked 6
10858	TS.ST1_T7_TSO	Tube Switching - Station 1 - Run assigned to Tube Ranked 7
10859	TS.ST1_T8_TSO	Tube Switching - Station 1 - Run assigned to Tube Ranked 8
10860	TS.TC_1.ST2_ACTUAL_RANK	Tube Switching - Station 2 - Actual Rank of station
10861	TS.TC_1.ST2_MAXRANK	Tube Switching - Station 2 - Maximum Rank available at station
10862	TS.TC_1.ST2_REQ_RANK	Tube Switching - Station 2 - Requested Rank of station
10863	TS.ST2_T1_TSO	Tube Switching - Station 2 - Run assigned to Tube Ranked 1
10864	TS.ST2_T2_TSO	Tube Switching - Station 2 - Run assigned to Tube Ranked 2
10865	TS.ST2_T3_TSO	Tube Switching - Station 2 - Run assigned to Tube Ranked 3
10866	TS.ST2_T4_TSO	Tube Switching - Station 2 - Run assigned to Tube Ranked 4
10867	TS.ST2_T5_TSO	Tube Switching - Station 2 - Run assigned to Tube Ranked 5
10868	TS.ST2_T6_TSO	Tube Switching - Station 2 - Run assigned to Tube Ranked 6
10869	TS.ST2_T7_TSO	Tube Switching - Station 2 - Run assigned to Tube Ranked 7
10870	TS.ST2_T8_TSO	Tube Switching - Station 2 - Run assigned to Tube Ranked 8
10871	TS.TC_1.ST3_ACTUAL_RANK	Tube Switching - Station 3 - Actual Rank of station
10872	TS.TC_1.ST3_MAXRANK	Tube Switching - Station 3 - Maximum Rank available at station

Reg#	Variable	Description
40070	T0 T0 4 0T0 DT0 DANK	Tube Switching - Station 3 - Requested Rank of
10873	TS.TC_1.ST3_REQ_RANK	station Tube Switching - Station 3 - Run assigned to
10874	TS.ST3 T1 TSO	Tube Ranked 1
		Tube Switching - Station 3 - Run assigned to
10875	TS.ST3_T2_TSO	Tube Ranked 2 Tube Switching - Station 3 - Run assigned to
10876	TS.ST3 T3 TSO	Tube Ranked 3
		Tube Switching - Station 3 - Run assigned to
10877	TS.ST3_T4_TSO	Tube Ranked 4
10878	TS.ST3 T5 TSO	Tube Switching - Station 3 - Run assigned to Tube Ranked 5
100.0		Tube Switching - Station 3 - Run assigned to
10879	TS.ST3_T6_TSO	Tube Ranked 6
10880	TS.ST3 T7 TSO	Tube Switching - Station 3 - Run assigned to Tube Ranked 7
10000	10.010_11_100	Tube Switching - Station 3 - Run assigned to
10881	TS.ST3_T8_TSO	Tube Ranked 8
10882	TS.TC_1.ST4_ACTUAL_RANK	Tube Switching - Station 4 - Actual Rank of station
10002	10.10_1.011_7101071E_1011410	Tube Switching - Station 4 - Maximum Rank
10883	TS.TC_1.ST4_MAXRANK	available at station
10884	TS.TC_1.ST4_REQ_RANK	Tube Switching - Station 4 - Requested Rank of station
10004	10.10_1.014_NEQ_10.WN	Tube Switching - Station 4 - Run assigned to
10885	TS.ST4_T1_TSO	Tube Ranked 1
10886	TS.ST4_T2_TSO	Tube Switching - Station 4 - Run assigned to Tube Ranked 2
10000	10.017_12_100	Tube Switching - Station 4 - Run assigned to
10887	TS.ST4_T3_TSO	Tube Ranked 3
10888	TS.ST4_T4_TSO	Tube Switching - Station 4 - Run assigned to Tube Ranked 4
10000		Tube Switching - Station 4 - Run assigned to
10889	TS.ST4_T5_TSO	Tube Ranked 5
10890	TS.ST4 T6 TSO	Tube Switching - Station 4 - Run assigned to Tube Ranked 6
		Tube Switching - Station 4 - Run assigned to
10891	TS.ST4_T7_TSO	Tube Ranked 7 Tube Switching - Station 4 - Run assigned to
10892	TS.ST4 T8 TSO	Tube Ranked 8
		Tube Switching - Station 5 - Actual Rank of
10893	TS.TC_1.ST5_ACTUAL_RANK	station Tube Switching - Station 5 - Maximum Rank
10894	TS.TC 1.ST5 MAXRANK	available at station
		Tube Switching - Station 5 - Requested Rank of
10895	TS.TC_1.ST5_REQ_RANK	station Tube Switching - Station 5 - Run assigned to
10896	TS.ST5_T1_TSO	Tube Ranked 1
		Tube Switching - Station 5 - Run assigned to
10897	TS.ST5_T2_TSO	Tube Ranked 2 Tube Switching - Station 5 - Run assigned to
10898	TS.ST5_T3_TSO	Tube Ranked 3
10222		Tube Switching - Station 5 - Run assigned to
10899	TS.ST5_T4_TSO	Tube Ranked 4 Tube Switching - Station 5 - Run assigned to
10900	TS.ST5_T5_TSO	Tube Ranked 5
		Tube Switching - Station 5 - Run assigned to
10901	TS.ST5_T6_TSO	Tube Ranked 6 Tube Switching - Station 5 - Run assigned to
10902	TS.ST5_T7_TSO	Tube Ranked 7
		Tube Switching - Station 5 - Run assigned to
10903	TS.ST5_T8_TSO	Tube Ranked 8

Tube Switching - Station 6 - Actual Rank of station	Reg#	Variable	Description
Tube Switching - Station 6 - Maximum Rank available at station			Tube Switching - Station 6 - Actual Rank of
10905 TS.TC 1.ST6 MARRANK	10904	TS.TC_1.ST6_ACTUAL_RANK	
Tube Switching - Station 6 - Requested Rank of station	10905	TS TC 1 ST6 MAXRANK	
10906 TS.TC 1.156 REQ RANK Station Tube Switching - Station 6 - Run assigned to Tube Ranked 1 Tube Switching - Station 6 - Run assigned to Tube Ranked 2 Tube Switching - Station 6 - Run assigned to Tube Ranked 3 Tube Switching - Station 6 - Run assigned to Tube Ranked 3 Tube Switching - Station 6 - Run assigned to Tube Ranked 3 Tube Switching - Station 6 - Run assigned to Tube Ranked 3 Tube Switching - Station 6 - Run assigned to Tube Ranked 3 Tube Switching - Station 6 - Run assigned to Tube Ranked 5 Tube Switching - Station 6 - Run assigned to Tube Ranked 5 Tube Switching - Station 6 - Run assigned to Tube Ranked 5 Tube Switching - Station 6 - Run assigned to Tube Ranked 6 Tube Switching - Station 6 - Run assigned to Tube Ranked 6 Tube Switching - Station 6 - Run assigned to Tube Ranked 6 Tube Switching - Station 6 - Run assigned to Tube Ranked 7 Tube Switching - Station 6 - Run assigned to Tube Ranked 7 Tube Switching - Station 6 - Run assigned to Tube Ranked 7 Tube Switching - Station 6 - Run assigned to Tube Ranked 7 Tube Switching - Station 6 - Run assigned to Tube Ranked 8 Tube Ranked 9 Tube Switching - Station 6 - Run assigned to Tube Ranked 1 Tube Ranke	10000	10.10_1.010_W//WWW	
10907 TS.ST6 T1 TSO	10906	TS.TC_1.ST6_REQ_RANK	station
Tube Switching - Station 6 - Run assigned to	10007	TS ST6 T1 TSO	
10908 TS.ST6 T2 TSO	10907	13.310_11_130	
10909 TS.STE T3 TSO	10908	TS.ST6_T2_TSO	Tube Ranked 2
Tube Switching - Station 6 - Run assigned to Tube Ranked 4 Tube Switching - Station 6 - Run assigned to Tube Ranked 5 Tube Ranked 5 Tube Ranked 6 Tube Ranked 6 Tube Ranked 6 Tube Ranked 6 Tube Ranked 6 Tube Ranked 6 Tube Ranked 6 Tube Ranked 6 Tube Ranked 6 Tube Ranked 6 Tube Ranked 7 Tube Switching - Station 6 - Run assigned to Tube Ranked 7 Tube Switching - Station 6 - Run assigned to Tube Ranked 7 Tube Switching - Station 6 - Run assigned to Tube Ranked 8 Tube Ranked 8 Tube Switching - Station 6 - Run assigned to Tube Ranked 8 Tube Switching - Station 6 - Run assigned to Tube Ranked 8 Tube Switching - Station 1 - Rank x Call next Station 1 - Rank x Call next Station 1 - Rank x Call next Station 1 - Rank x Call next Station 1 - Rank x Call next Station 1 - Rank x Call next Station 1 - Rank x Call next Station 1 - Rank x Call previous Station 1 - Rank x Call Previous Station 1 - Rank x Call Previous Station 1 - Rank x Call Previous Station 1 - Rank x Call Previous Station 1 - Rank x Call Previous Station 1 - Rank x Call Previous Statio	40000	T0 0T0 T0 T00	
10910 TS.ST6 T4 TSO	10909	15.516_13_150	
10911 TS.ST6 T5 TSO	10910	TS.ST6_T4_TSO	Tube Ranked 4
Tube Switching - Station 6 - Run assigned to Tube Ranked 6 Tube Switching - Station 6 - Run assigned to Tube Ranked 7 Tube Switching - Station 6 - Run assigned to Tube Ranked 7 Tube Switching - Station 6 - Run assigned to Tube Ranked 7 Tube Switching - Station 6 - Run assigned to Tube Ranked 8 Tube Switching - Station 6 - Run assigned to Tube Ranked 8 Tube Switching - Station 1 - Rank x Call next setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Process Tube Switching - Station n - Rank x Call previous deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous deadband - n = 1 through 12 Tube Switching - Station n - Rank x Call next deadband - n = 1 through 12 Tube Switching - Station n - Rank x Call next deadband - n = 1 through 12 Tube Switching - Station n - Rank x Call next deadband - n = 1 through 12 Tube Switching - Station n - Rank x Call next deadband - n = 1 through 12 Tu			
10912 TS.ST6 T6 TSO	10911	IS.S16_15_ISO	
Tube Switching - Station 6 - Run assigned to Tube Ranked 7	10912	TS.ST6 T6 TSO	
Tube Switching - Station 6 - Run assigned to Tube Ranked 8			
10914 TS.ST6 T8 TSO	10913	TS.ST6_T7_TSO	
Tube Switching - Station n - Rank x Call next setpoint - n = 1 through 12, x = 1 through 12	10914	TS.ST6 T8 TSO	
Tube Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12			Tube Switching - Station n - Rank x Call next
10916 TS.TC 1.TSO 1.HIDB deadband - n = 1 through 12, x = 1 through 12	10915	TS.TC_1.TSO_1.HISWITCH	
Tube Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12	10916	TS TC 1 TSO 1 HIDB	
Tube Switching - Station n - Rank x Call previous deadband - n - 1 through 12, x = 1 through 12	10010		
10918 TS.TC_1.TSO_1.LODB deadband - n = 1 through 12, x = 1 through 12	10917	TS.TC_1.TSO_1.LOSWITCH	
Tube Switching - Station n - Rank x Process Variable - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Process Variable - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous feadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous feadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous feadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next deadband - n = 1 through	10018	TS TC 1 TSO 1 LODB	
10919 TS.TC 1.TSO 1.PV	10910	13.10_1.130_1.E0DB	
10920 TS.TC_1.TSO_2.HISWITCH Tube Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12 TUBE Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12 TUBE Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12 TUBE Switching - Station n - Rank x Call previous deadband - n = 1 through 12, x = 1 through 12 TUBE Switching - Station n - Rank x Process 10924 TS.TC_1.TSO_2.LODB TS.TC_1.TSO_2.PV TUBE Switching - Station n - Rank x Call next setpoint - n = 1 through 12, x = 1 through 12 TUBE Switching - Station n - Rank x Call next setpoint - n = 1 through 12, x = 1 through 12 TUBE Switching - Station n - Rank x Call next setpoint - n = 1 through 12, x = 1 through 12 TUBE Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12 TUBE Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12 TUBE Switching - Station n - Rank x Call previous deadband - n = 1 through 12, x = 1 through 12 TUBE Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12 TUBE Switching - Station n - Rank x Call previous deadband - n = 1 through 12, x = 1 through 12 TUBE Switching - Station n - Rank x Call previous deadband - n = 1 through 12, x = 1 through 12 TUBE Switching - Station n - Rank x Call previous deadband - n = 1 through 12, x = 1 through 12 TUBE Switching - Station n - Rank x Call next setpoint - n = 1 through 12, x = 1 through 12 TUBE Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12 TUBE Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12 TUBE Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12 TUBE Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12 TUBE Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12 TUBE Switching - Station n - Ra	10919	TS.TC_1.TSO_1.PV	Variable - n = $\frac{1}{1}$ through 12, x = 1 through 12
Tube Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12 TS.TC_1.TSO_2.LOSWITCH Tube Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Process 10924 TS.TC_1.TSO_2.PV Tube Switching - Station n - Rank x Process 10925 TS.TC_1.TSO_3.HISWITCH Tube Switching - Station n - Rank x Call next setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Process Tube Switching - Station n - Rank x Call previous deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12	10020	TS TO 1 TSO 2 HISWITCH	
TS.TC 1.TSO 2.HIDB deadband - n = 1 through 12, x = 1 through 12	10920	15.10_1.150_2.nlswi1ch	
10922 TS.TC 1.TSO 2.LOSWITCH Setpoint - n = 1 through 12, x = 1 through 12	10921	TS.TC_1.TSO_2.HIDB	deadband - n = 1 through 12, x = 1 through 12
Tube Switching - Station n - Rank x Call previous deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Process 10924 TS.TC 1.TSO 2.PV Variable - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Process Variable - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12	40000	TO TO 4 TOO OLOOWITCH	Tube Switching - Station n - Rank x Call previous
10923 TS.TC_1.TSO_2.LODB deadband - n = 1 through 12, x = 1 through 12	10922	15.1C_1.15U_2.LUSWITCH	
10924 TS.TC_1.TSO_2.PV Variable - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Process Variable - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12	10923	TS.TC_1.TSO_2.LODB	deadband - n = 1 through 12, x = 1 through 12
Tube Switching - Station n - Rank x Call next setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Process Variable - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12	40004	T0 T0 4 T00 0 DV	
TS.TC_1.TSO_3.HISWITCH setpoint - n = 1 through 12, x = 1 through 12	10924	IS.IC_1.ISO_2.PV	
Tube Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous Setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous Setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Process 10929 TS.TC_1.TSO_3.PV Tube Switching - Station n - Rank x Process Variable - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next Setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next Setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous Setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous Setpoint - n = 1 through 12, x = 1 through 12	10925	TS.TC_1.TSO_3.HISWITCH	
Tube Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Process Variable - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12			Tube Switching - Station n - Rank x Call next
10927 TS.TC_1.TSO_3.LOSWITCH setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Process 10929 TS.TC_1.TSO_3.PV Tube Switching - Station n - Rank x Process Variable - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12	10926	IS.IC_1.ISO_3.HIDB	
Tube Switching - Station n - Rank x Call previous deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Process Tube Switching - Station n - Rank x Process Variable - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next Setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next Setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous Tube Switching - Station n - Rank x Call previous Setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous Setpoint - n = 1 through 12, x = 1 through 12	10927	TS.TC 1.TSO 3.LOSWITCH	
Tube Switching - Station n - Rank x Process Variable - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous Tube Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12			Tube Switching - Station n - Rank x Call previous
10929TS.TC_1.TSO_3.PVVariable - n = 1 through 12, x = 1 through 1210930TS.TC_1.TSO_4.HISWITCHTube Switching - Station n - Rank x Call next setpoint - n = 1 through 12, x = 1 through 1210931TS.TC_1.TSO_4.HIDBTube Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 1210932TS.TC_1.TSO_4.LOSWITCHTube Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12	10928	TS.TC_1.TSO_3.LODB	
Tube Switching - Station n - Rank x Call next setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12	10929	TS.TC 1.TSO 3.PV	
Tube Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12			Tube Switching - Station n - Rank x Call next
10931TS.TC_1.TSO_4.HIDBdeadband - n = 1 through 12, x = 1 through 12Tube Switching - Station n - Rank x Call previous10932TS.TC_1.TSO_4.LOSWITCHsetpoint - n = 1 through 12, x = 1 through 12	10930	TS.TC_1.TSO_4.HISWITCH	
Tube Switching - Station n - Rank x Call previous setpoint - n = 1 through 12, x = 1 through 12	10931	TS TC. 1 TSO. 4 HIDB	
10932 TS.TC_1.TSO_4.LOSWITCH setpoint - n = 1 through 12, x = 1 through 12	10001	10.10_1100_11100	
Tuhe Switching - Station n - Bank y Call provious	10932	TS.TC_1.TSO_4.LOSWITCH	setpoint - n = 1 through 12, x = 1 through 12
10933 TS.TC_1.TSO_4.LODB deadband - n = 1 through 12, x = 1 through 12	10033	TS TC 1 TSO 4 LODB	Tube Switching - Station n - Rank x Call previous
Tube Switching - Station n - Rank x Process	10800	10.10_1.100_4.0000	
10934 TS.TC 1.TSO 4.PV Variable - n = 1 through 12, x = 1 through 12			Tube Switching - Station n - Rank x Process

Reg#	Variable	Description
rtog	Tallania	Tube Switching - Station n - Rank x Call next
10935	TS.TC_1.TSO_5.HISWITCH	setpoint - n = 1 through 12, x = 1 through 12
40000	TO TO 4 TOO 5 LUDD	Tube Switching - Station n - Rank x Call next
10936	TS.TC_1.TSO_5.HIDB	deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous
10937	TS.TC 1.TSO 5.LOSWITCH	setpoint - n = 1 through 12, x = 1 through 12
		Tube Switching - Station n - Rank x Call previous
10938	TS.TC_1.TSO_5.LODB	deadband - n = 1 through 12, x = 1 through 12
10939	TS.TC_1.TSO_5.PV	Tube Switching - Station n - Rank x Process Variable - n = 1 through 12, x = 1 through 12
10000	10.10_1.100_0.1 V	Tube Switching - Station n - Rank x Call next
10940	TS.TC_1.TSO_6.HISWITCH	setpoint - n = 1 through 12, x = 1 through 12
10941	TO TO 4 TOO 6 HIDD	Tube Switching - Station n - Rank x Call next
10941	TS.TC_1.TSO_6.HIDB	deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call previous
10942	TS.TC_1.TSO_6.LOSWITCH	setpoint - n = 1 through 12, x = 1 through 12
		Tube Switching - Station n - Rank x Call previous
10943	TS.TC_1.TSO_6.LODB	deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Process
10944	TS.TC 1.TSO 6.PV	Variable - n = 1 through 12, x = 1 through 12
		Tube Switching - Station n - Rank x Call next
10945	TS.TC_1.TSO_7.HISWITCH	setpoint - n = 1 through 12, x = 1 through 12
10946	TS.TC 1.TSO 7.HIDB	Tube Switching - Station n - Rank x Call next deadband - n = 1 through 12, x = 1 through 12
10340	10.10_1.100_1.110b	Tube Switching - Station n - Rank x Call previous
10947	TS.TC_1.TSO_7.LOSWITCH	setpoint - n = 1 through 12, x = 1 through 12
40040	TO TO 4 TOO 71 OPP	Tube Switching - Station n - Rank x Call previous
10948	TS.TC_1.TSO_7.LODB	deadband - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Process
10949	TS.TC_1.TSO_7.PV	Variable - n = 1 through 12, x = 1 through 12
		Tube Switching - Station n - Rank x Call next
10950	TS.TC_1.TSO_8.HISWITCH	setpoint - n = 1 through 12, x = 1 through 12 Tube Switching - Station n - Rank x Call next
10951	TS.TC 1.TSO 8.HIDB	deadband - n = 1 through 12, x = 1 through 12
		Tube Switching - Station n - Rank x Call previous
10952	TS.TC_1.TSO_8.LOSWITCH	setpoint - n = 1 through 12, x = 1 through 12
10953	TS.TC_1.TSO_8.LODB	Tube Switching - Station n - Rank x Call previous deadband - n = 1 through 12, x = 1 through 12
10000	10.10_1.100_0.2022	Tube Switching - Station n - Rank x Process
10954	TS.TC_1.TSO_8.PV	Variable - $n = 1$ through 12, $x = 1$ through 12
10955	MB.SPARE	
10956	MB.SPARE	
10957	MB.SPARE	
10958	MB.SPARE	
10959	MB.SPARE	
10960	MB.SPARE	
10961	MB.SPARE	
10962	MB.SPARE	
10963	MB.SPARE	
10964	MB.SPARE	
10965	MB.SPARE	
10966	MB.SPARE	
10967	MB.SPARE	
10968	MB.SPARE	
10969	MB.SPARE	
10970	MB.SPARE	
10971	MB.SPARE	
10972	MB.SPARE	

Reg#	Variable	Description
10973	MB.SPARE	
10974	MB.SPARE	
		Bidirectional Control - Station 2 Direction
10975	BI.ST2_DIR_IND	Indicator selected
		Bidirectional Control - Station 2 Limit Switch Indication Limit Switch 1 Close Limit Switch
10976	BI.ST2 CLS1	source selected
10070	B1.012_0201	Bidirectional Control - Station 2 Limit Switch
		Indication Limit Switch 2 Close Limit Switch
10977	BI.ST2_CLS2	source selected
		Bidirectional Control - Station 2 Limit Switch Indication Limit Switch 1 Open Limit Switch
10978	BI.ST2 OLS1	source selected
		Bidirectional Control - Station 2 Limit Switch
		Indication Limit Switch 2 Open Limit Switch
10979	BI.ST2_OLS2	source selected
10980	BC.ST BIDIR CTL 2.BIDIRVLVCTL 1.FWD OPEN1	Bidirectional Control - Station 2 Programmed
10960	BC.31_BIDIK_CTL_2.BIDIKVLVCTL_T.FWD_OPENT	Control, BV to open 1st in Forward Direction Bidirectional Control - Station 2 Programmed
10981	BC.ST BIDIR CTL 2.BIDIRVLVCTL 1.FWD OPEN2	Control, BV to open 2nd in Forward Direction
		Bidirectional Control - Station 2 Programmed
10982	BC.ST_BIDIR_CTL_2.BIDIRVLVCTL_1.FWD_OPEN3	Control, BV to open 3rd in Forward Direction
10983	BC.ST BIDIR CTL 2.BIDIRVLVCTL 1.FWD OPEN4	Bidirectional Control - Station 2 Programmed Control, BV to open 4th in Forward Direction
10963	BC.31_BIDIK_CTL_2.BIDIKVLVCTL_1.FWD_OPEN4	Bidirectional Control - Station 2 Programmed
10984	BC.ST_BIDIR_CTL_2.BIDIRVLVCTL_1.FWD_CLOSE1	Control, BV to close 1st in Forward Direction
		Bidirectional Control - Station 2 Programmed
10985	BC.ST_BIDIR_CTL_2.BIDIRVLVCTL_1.FWD_CLOSE2	Control, BV to close 2nd in Forward Direction
40000	DO ST DIDID STI A DIDIDIVI VISTI 4 EWD SI OSEA	Bidirectional Control - Station 2 Programmed
10986	BC.ST_BIDIR_CTL_2.BIDIRVLVCTL_1.FWD_CLOSE3	Control, BV to close 3rd in Forward Direction Bidirectional Control - Station 2 Programmed
10987	BC.ST_BIDIR_CTL_2.BIDIRVLVCTL_1.FWD_CLOSE4	Control, BV to close 4th in Forward Direction
		Bidirectional Control - Station 2 Programmed
10988	BC.ST_BIDIR_CTL_2.BIDIRVLVCTL_1.REV_OPEN1	Control, BV to open 1st in Reverse Direction
10989	BC.ST BIDIR CTL 2.BIDIRVLVCTL 1.REV OPEN2	Bidirectional Control - Station 2 Programmed Control, BV to open 2nd in Reverse Direction
10000	BOOT BIBIT OTE 2.BIBIT VEVOTE 1.ITEV OF ENZ	Bidirectional Control - Station 2 Programmed
10990	BC.ST_BIDIR_CTL_2.BIDIRVLVCTL_1.REV_OPEN3	Control, BV to open 3rd in Reverse Direction
		Bidirectional Control - Station 2 Programmed
10991	BC.ST_BIDIR_CTL_2.BIDIRVLVCTL_1.REV_OPEN4	Control, BV to open 4th in Reverse Direction
10992	BC.ST BIDIR CTL 2.BIDIRVLVCTL 1.REV CLOSE1	Bidirectional Control - Station 2 Programmed Control, BV to close 1st in Reverse Direction
10002	B0.01_BIBIK_012_E.BIBIKYEV012_1.KEV_020021	Bidirectional Control - Station 2 Programmed
10993	BC.ST_BIDIR_CTL_2.BIDIRVLVCTL_1.REV_CLOSE2	Control, BV to close 2nd in Reverse Direction
40004	DO OT DIDID OTL O DIDIDIVIVOTE A DEV OLOGEO	Bidirectional Control - Station 2 Programmed
10994	BC.ST_BIDIR_CTL_2.BIDIRVLVCTL_1.REV_CLOSE3	Control, BV to close 3rd in Reverse Direction Bidirectional Control - Station 2 Programmed
10995	BC.ST_BIDIR_CTL_2.BIDIRVLVCTL_1.REV_CLOSE4	Control, BV to close 4th in Reverse Direction
.0000		Bidirectional Control - Station 2 Programmed
10996	BC.ST_BIDIR_CTL_2.BIDIRVLVCTL_1.TIMEDLY	Control, Time delay between valve actions
40007	DO CT. DIDID CTI. O DVA MODE	Bidirectional Control - Block Valve 1 Operating
10997	BC.ST_BIDIR_CTL_2.BV1.MODE	Mode, Station 2 Bidirectional Control - Block Valve 1 Pulse Time,
10998	BC.ST_BIDIR_CTL_2.BV1.PULSETIME	Station 2
	<u> </u>	Bidirectional Control - Block Valve 1 Travel Time,
10999	BC.ST_BIDIR_CTL_2.BV1.TRAVELTIME	Station 2
11000	DC CT DIDID CTL 2 DV2 MODE	Bidirectional Control - Block Valve 2 Operating
11000	BC.ST_BIDIR_CTL_2.BV2.MODE	Mode, Station 2 Bidirectional Control - Block Valve 2 Pulse Time,
11001	BC.ST_BIDIR_CTL_2.BV2.PULSETIME	Station 2
		Bidirectional Control - Block Valve 2 Travel Time,
11002	BC.ST_BIDIR_CTL_2.BV2.TRAVELTIME	Station 2

Reg#	Variable	Description
1109		Bidirectional Control - Block Valve 3 Operating
11003	BC.ST_BIDIR_CTL_2.BV3.MODE	Mode, Station 2
11004	BC.ST_BIDIR_CTL_2.BV3.PULSETIME	Bidirectional Control - Block Valve 3 Pulse Time, Station 2
11005	BC.ST_BIDIR_CTL_2.BV3.TRAVELTIME	Bidirectional Control - Block Valve 3 Travel Time, Station 2
11006	BC.ST_BIDIR_CTL_2.BV4.MODE	Bidirectional Control - Block Valve 4 Operating Mode, Station 2
11007	BC.ST_BIDIR_CTL_2.BV4.PULSETIME	Bidirectional Control - Block Valve 4 Pulse Time, Station 2
11008	BC.ST_BIDIR_CTL_2.BV4.TRAVELTIME	Bidirectional Control - Block Valve 4 Travel Time, Station 2
11009	BC.ST_BIDIR_CTL_2.BV5.MODE	Bidirectional Control - Block Valve 5 Operating Mode, Station 2
11010	BC.ST_BIDIR_CTL_2.BV5.PULSETIME	Bidirectional Control - Block Valve 5 Pulse Time, Station 2
11011	BC.ST_BIDIR_CTL_2.BV5.TRAVELTIME	Bidirectional Control - Block Valve 5 Travel Time, Station 2
11011	BC.ST_BIDIR_CTL_2.BV6.MODE	Bidirectional Control - Block Valve 6 Operating Mode, Station 2
11012	BC.ST_BIDIR_CTL_2.BV6.PULSETIME	Bidirectional Control - Block Valve 6 Pulse Time, Station 2
		Bidirectional Control - Block Valve 6 Travel Time,
11014	BC.ST_BIDIR_CTL_2.BV6.TRAVELTIME	Station 2 Bidirectional Control - Block Valve 7 Operating
11015	BC.ST_BIDIR_CTL_2.BV7.MODE	Mode, Station 2 Bidirectional Control - Block Valve 7 Pulse Time,
11016	BC.ST_BIDIR_CTL_2.BV7.PULSETIME	Station 2 Bidirectional Control - Block Valve 7 Travel Time,
11017	BC.ST_BIDIR_CTL_2.BV7.TRAVELTIME	Station 2 Bidirectional Control - Block Valve 8 Operating
11018	BC.ST_BIDIR_CTL_2.BV8.MODE	Mode, Station 2 Bidirectional Control - Block Valve 8 Pulse Time,
11019	BC.ST_BIDIR_CTL_2.BV8.PULSETIME	Station 2 Bidirectional Control - Block Valve 8 Travel Time,
11020	BC.ST_BIDIR_CTL_2.BV8.TRAVELTIME	Station 2 Bidirectional Control - Station 4 Direction
11021	BI.ST4_DIR_IND	Indicator selected
11022	BI.ST4_CLS1	Bidirectional Control - Station 4 Limit Switch Indication Limit Switch 1 Close Limit Switch source selected
11023	BI.ST4 CLS2	Bidirectional Control - Station 4 Limit Switch Indication Limit Switch 2 Close Limit Switch source selected
11024	BI.ST4_OLS1	Bidirectional Control - Station 4 Limit Switch Indication Limit Switch 1 Open Limit Switch source selected
11025	BI.ST4_OLS2	Bidirectional Control - Station 4 Limit Switch Indication Limit Switch 2 Open Limit Switch source selected
11026	BC.ST_BIDIR_CTL_4.BIDIRVLVCTL_1.FWD_OPEN1	Bidirectional Control - Station 4 Programmed Control, BV to open 1st in Forward Direction
11027	BC.ST_BIDIR_CTL_4.BIDIRVLVCTL_1.FWD_OPEN2	Bidirectional Control - Station 4 Programmed Control, BV to open 2nd in Forward Direction
11028	BC.ST_BIDIR_CTL_4.BIDIRVLVCTL_1.FWD_OPEN3	Bidirectional Control - Station 4 Programmed Control, BV to open 3rd in Forward Direction
11029	BC.ST_BIDIR_CTL_4.BIDIRVLVCTL_1.FWD_OPEN4	Bidirectional Control - Station 4 Programmed Control, BV to open 4th in Forward Direction
11030	BC.ST_BIDIR_CTL_4.BIDIRVLVCTL_1.FWD_CLOSE1	Bidirectional Control - Station 4 Programmed Control, BV to close 1st in Forward Direction
11031	BC.ST_BIDIR_CTL_4.BIDIRVLVCTL_1.FWD_CLOSE2	Bidirectional Control - Station 4 Programmed Control, BV to close 2nd in Forward Direction
11031	DO.O1_DIDIN_O1L_4.DIDINVLVO1L_1.FWD_CLOSEZ	Control, DV to Glose Zhu ili Forward Direction

BCST BIDIR CTL 4.BIDIRVLVCTL 1.FWD CLOSE3 BIDIR CTL 4.BIDIRVLVCTL 1.FWD CLOSE4 11033 BC.ST BIDIR CTL 4.BIDIRVLVCTL 1.FWD CLOSE4 11034 BC.ST BIDIR CTL 4.BIDIRVLVCTL 1.FWD CLOSE4 11035 BC.ST BIDIR CTL 4.BIDIRVLVCTL 1.REV OPEN1 11036 BC.ST BIDIR CTL 4.BIDIRVLVCTL 1.REV OPEN2 11036 BC.ST BIDIR CTL 4.BIDIRVLVCTL 1.REV OPEN3 11037 BC.ST BIDIR CTL 4.BIDIRVLVCTL 1.REV OPEN3 11038 BC.ST BIDIR CTL 4.BIDIRVLVCTL 1.REV OPEN3 11038 BC.ST BIDIR CTL 4.BIDIRVLVCTL 1.REV OPEN3 11039 BC.ST BIDIR CTL 4.BIDIRVLVCTL 1.REV OPEN3 11039 BC.ST BIDIR CTL 4.BIDIRVLVCTL 1.REV CLOSE1 11040 BC.ST BIDIR CTL 4.BIDIRVLVCTL 1.REV CLOSE3 11041 BC.ST BIDIR CTL 4.BIDIRVLVCTL 1.REV CLOSE3 11042 BC.ST BIDIR CTL 4.BIDIRVLVCTL 1.REV CLOSE3 11043 BC.ST BIDIR CTL 4.BIDIRVLVCTL 1.REV CLOSE3 11044 BC.ST BIDIR CTL 4.BIDIRVLVCTL 1.REV CLOSE3 11045 BC.ST BIDIR CTL 4.BIDIRVLVCTL 1.REV CLOSE3 11046 BC.ST BIDIR CTL 4.BIDIRVLVCTL 1.REV CLOSE3 11047 BC.ST BIDIR CTL 4.BIDIRVLVCTL 1.REV CLOSE3 11048 BC.ST BIDIR CTL 4.BIDIRVLVCTL 1.REV CLOSE3 11049 BC.ST BIDIR CTL 4.BIDIRVLVCTL 1.REV CLOSE3 11049 BC.ST BIDIR CTL 4.BIDIRVLVCTL 1.RIVL CLOSE3 11040 BC.ST BIDIR CTL 4.BIDIRVLVCTL 1.RIVL CLOSE3 11044 BC.ST BIDIR CTL 4.BIDIRVLVCTL 1.RIVL CLOSE3 11045 BC.ST BIDIR CTL 4.BIDIRVLVCTL 1.RIVL CLOSE3 11046 BC.ST BIDIR CTL 4.BIDIRVLVCTL 1.RIVL CLOSE3 11047 BC.ST BIDIR CTL 4.BIDIRVLVCTL 1.RIVL CLOSE3 11048 BC.ST BIDIR CTL 4.BV1.MODE 11049 BC.ST BIDIR CTL 4.BV1.MODE 11049 BC.ST BIDIR CTL 4.BV1.MODE 11049 BC.ST BIDIR CTL 4.BV1.MODE 11049 BC.ST BIDIR CTL 4.BV2.PULSETIME 11049 BC.ST BIDIR CTL 4.BV2.PULSETIME 11040 BC.ST BIDIR CTL 4.BV3.PULSETIME 11040 BC.ST BIDIR CTL 4.BV3.PULSETIME 11041 BC.ST BIDIR CTL 4.BV3.PULSETIME 11042 BC.ST BIDIR CTL 4.BV3.PULSETIME 11043 BC.ST BIDIR CTL 4.BV3.PULSETIME 11054 BC.ST BIDIR CTL 4.BV3.PULSETIME 11055 BC.ST BIDIR CTL 4.BV3.PULSETIME 11056 BC.ST BIDIR CTL 4.BV3.PULSETIME 11057 BC.ST BIDIR CTL 4.BV3.PULSETIME 11058 BC.ST BIDIR CTL 4.BV3.PULSETIME 11059 BC.ST BIDIR CTL 4.BV4.PULSETIME 11050 BC.ST BIDIR CTL 4	Reg#	Variable	Description
BIGST BIDIR CTL 4.BIDIRVLYCTL 1.FWD CLOSE4 11034 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV OPEM 11035 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV OPEM 11036 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV OPEM 11037 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV OPEM 11038 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV OPEM 11039 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV OPEM 11039 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV OPEM 11039 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV OPEM 11039 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV OPEM 11039 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV OPEM 11039 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV CLOSE1 11039 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV CLOSE1 11040 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV CLOSE1 11040 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV CLOSE2 11040 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV CLOSE3 11040 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV CLOSE3 11040 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV CLOSE3 11040 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV CLOSE3 11040 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV CLOSE3 11040 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV CLOSE3 11040 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV CLOSE3 11040 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV CLOSE3 11040 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV CLOSE3 11040 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV CLOSE3 11040 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV CLOSE3 11040 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV CLOSE3 11040 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV CLOSE3 11040 BC.ST BIDIR CTL 4.BV1.MODE 11040 BC.ST BIDIR CTL 4.BV1.MODE 11040 BC.ST BIDIR CTL 4.BV1.MODE 11040 BC.ST BIDIR CTL 4.BV1.MODE 11040 BC.ST BIDIR CTL 4.BV1.MODE 11040 BC.ST BIDIR CTL 4.BV2.MODE 11040 BC.ST BIDIR CTL 4.BV3.MODE 11040 BC.ST BIDIR CTL 4.BV3.MODE 11040 BC.ST BIDIR CTL 4.BV3.MODE 11050 BC.ST BIDIR CTL 4.BV3.MODE 11050 BC.ST BIDIR CTL 4.BV3.MODE 11050 BC.ST BIDIR CTL 4.BV3.MODE 11050 BC.ST BIDIR CTL 4.BV3.MODE 11050 BC.ST BIDIR CTL 4.BV3.MODE 11050 BC.ST BIDIR CTL 4.BV4.MODE 11050 BC.ST BIDIR CTL 4.BV4.MODE 11050 BC.ST BIDIR CTL 4.BV			Bidirectional Control - Station 4 Programmed
11033 BC.ST. BIDIR CTL. 4.BIDIRVLYCTL. 1.FRV OPEN1 11036 BC.ST. BIDIR CTL. 4.BIDIRVLYCTL. 1.REV OPEN2 11037 BC.ST. BIDIR CTL. 4.BIDIRVLYCTL. 1.REV OPEN2 11038 BC.ST. BIDIR CTL. 4.BIDIRVLYCTL. 1.REV OPEN3 11039 BC.ST. BIDIR CTL. 4.BIDIRVLYCTL. 1.REV OPEN3 11039 BC.ST. BIDIR CTL. 4.BIDIRVLYCTL. 1.REV OPEN3 11039 BC.ST. BIDIR CTL. 4.BIDIRVLYCTL. 1.REV OPEN4 11039 BC.ST. BIDIR CTL. 4.BIDIRVLYCTL. 1.REV OPEN4 11039 BC.ST. BIDIR CTL. 4.BIDIRVLYCTL. 1.REV OPEN4 11039 BC.ST. BIDIR CTL. 4.BIDIRVLYCTL. 1.REV CLOSE1 11040 BC.ST. BIDIR CTL. 4.BIDIRVLYCTL. 1.REV CLOSE3 11040 BC.ST. BIDIR CTL. 4.BIDIRVLYCTL. 1.REV CLOSE3 11040 BC.ST. BIDIR CTL. 4.BIDIRVLYCTL. 1.REV CLOSE3 11040 BC.ST. BIDIR CTL. 4.BIDIRVLYCTL. 1.REV CLOSE3 11040 BC.ST. BIDIR CTL. 4.BIDIRVLYCTL. 1.REV CLOSE3 11041 BC.ST. BIDIR CTL. 4.BIDIRVLYCTL. 1.REV CLOSE3 11042 BC.ST. BIDIR CTL. 4.BIDIRVLYCTL. 1.REV CLOSE3 11043 BC.ST. BIDIR CTL. 4.BIDIRVLYCTL. 1.REV CLOSE3 11044 BC.ST. BIDIR CTL. 4.BIDIRVLYCTL. 1.REV CLOSE4 11045 BC.ST. BIDIR CTL. 4.BIDIRVLYCTL. 1.TIMEDLY 11046 BC.ST. BIDIR CTL. 4.BIDIRVLYCTL. 1.TIMEDLY 11047 BC.ST. BIDIR CTL. 4.BV1.MODE 11048 BC.ST. BIDIR CTL. 4.BV1.MODE 11049 BC.ST. BIDIR CTL. 4.BV1.TRAVELTIME 11049 BC.ST. BIDIR CTL. 4.BV1.TRAVELTIME 11040 BC.ST. BIDIR CTL. 4.BV2.TRAVELTIME 11041 BC.ST. BIDIR CTL. 4.BV2.TRAVELTIME 11042 BC.ST. BIDIR CTL. 4.BV2.TRAVELTIME 11043 BC.ST. BIDIR CTL. 4.BV2.TRAVELTIME 11044 BC.ST. BIDIR CTL. 4.BV2.TRAVELTIME 11055 BC.ST. BIDIR CTL. 4.BV3.MODE 11056 BC.ST. BIDIR CTL. 4.BV3.TRAVELTIME 11057 BC.ST. BIDIR CTL. 4.BV3.TRAVELTIME 11058 BC.ST. BIDIR CTL. 4.BV3.TRAVELTIME 11059 BC.ST. BIDIR CTL. 4.BV3.TRAVELTIME 11050 BC.ST. BIDIR CTL. 4.BV3.TRAVELTIME 11050 BC.ST. BIDIR CTL. 4.BV3.TRAVELTIME 11050 BC.ST. BIDIR CTL. 4.BV4.TRAVELTIME	11032	BC.ST_BIDIR_CTL_4.BIDIRVLVCTL_1.FWD_CLOSE3	
Bidirectional Control - Station 4 Programmed 11036 BC.ST_BIDIR_CTL_4.BIDIRVLYCTL_1.REV_OPEN2	11033	RC ST RIDIP CTL / RIDIPVLVCTL / EWD CLOSE/	
BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV OPEN2 BIDIR CTL 4.BIDIRVLYCTL 1.REV OPEN2 BIDIR CTL 4.BIDIRVLYCTL 1.REV OPEN2 BIDIR CTL 4.BIDIRVLYCTL 1.REV OPEN3 BIDIR CTL 4.BIDIRVLYCTL 1.REV OPEN3 BIDIR CTL 4.BIDIRVLYCTL 1.REV OPEN3 BIDIR CTL 4.BIDIRVLYCTL 1.REV OPEN3 BIDIR CTL 4.BIDIRVLYCTL 1.REV OPEN4 BIDIR CTL 4.BIDIRVLYCTL 1.REV OPEN4 BIDIR CTL 4.BIDIRVLYCTL 1.REV OPEN4 BIDIR CTD 4.BIDIRVLYCTL 1.REV OPEN4 BIDIR CTD 4.BIDIRVLYCTL 1.REV OPEN4 BIDIR CTD 4.BIDIRVLYCTL 1.REV CLOSE1 BIDIR CTL 4.BIDIRVLYCTL 1.REV CLOSE1 BIDIR CTL 4.BIDIRVLYCTL 1.REV CLOSE2 BIDIR CTL 4.BIDIRVLYCTL 1.REV CLOSE3 BIDIR CTL 4.BIDIRVLYCTL 1.REV CLOSE3 BIDIR CTL 4.BIDIRVLYCTL 1.REV CLOSE3 BIDIR CTL 4.BIDIRVLYCTL 1.REV CLOSE3 Control, BV to close 3rd in Reverse Direction Bidirectional Control - Station 4 Programmed Control, BV to close 3rd in Reverse Direction Bidirectional Control - Station 4 Programmed Control, BV to close 3rd in Reverse Direction Bidirectional Control, BV to close 3rd in Reverse Direction Bidirectional Control, BV to close 3rd in Reverse Direction Bidirectional Control - Station 4 Programmed Control, BV to close 3rd in Reverse Direction Bidirectional Control - Station 4 Programmed Control, BV to close 3rd in Reverse Direction Bidirectional Control - Station 4 Programmed Control, BV to close 3rd in Reverse Direction Bidirectional Control - Station 4 Programmed Control, BV to close 3rd in Reverse Direction Bidirectional Control - Station 4 Programmed Control, BV to close 3rd in Reverse Direction Bidirectional Control - Station 4 Programmed Control, BV to close 3rd in Reverse Direction Bidirectional Control - Station 4 Programmed Control, BV to close 3rd in Reverse Direction Bidirectional Control - Biock Valve 1 Operating Mode, Station 4 BC.S.T BIDIR CTL 4.BV1.MODE Bidirectional Control - Biock Valve 1 Operating Mode, Station 4 BC.S.T BIDIR CTL 4.BV2.PULSETIME Bidirectional Control - Biock Valve 2 Operating Mode, Station 4 BIDIR CTL 4.BV3.MODE Bidirectional Control - Biock Valve 3 Operating Mode, Station 4 BID	11000	BC.ST_BIBIIX_CTE_4.BIBIIXVEVCTE_1.1 WB_CEOSE4	
11036 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV_OPEN2 11037 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV_OPEN3 11038 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV_OPEN3 11039 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV_OPEN4 11039 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV_CLOSE1 11039 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV_CLOSE1 11040 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV_CLOSE3 11040 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV_CLOSE3 11040 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV_CLOSE3 11040 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV_CLOSE3 11040 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV_CLOSE3 11040 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV_CLOSE3 11040 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV_CLOSE3 11041 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV_CLOSE3 11042 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV_CLOSE3 11044 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.RIMEDLY 11045 BC.ST BIDIR CTL 4.BV1.MODE 11046 BC.ST BIDIR CTL 4.BV1.MODE 11047 BC.ST BIDIR CTL 4.BV1.PULSETIME 11048 BC.ST BIDIR CTL 4.BV1.TRAVELTIME 11049 BC.ST BIDIR CTL 4.BV2.PULSETIME 11049 BC.ST BIDIR CTL 4.BV2.PULSETIME 11049 BC.ST BIDIR CTL 4.BV2.PULSETIME 11049 BC.ST BIDIR CTL 4.BV2.RAVELTIME 11049 BC.ST BIDIR CTL 4.BV2.RAVELTIME 11049 BC.ST BIDIR CTL 4.BV2.RAVELTIME 11049 BC.ST BIDIR CTL 4.BV3.PULSETIME 11049 BC.ST BIDIR CTL 4.BV3.PULSETIME 11040 BC.ST BIDIR CTL 4.BV3.PULSETIME 11040 BC.ST BIDIR CTL 4.BV3.PULSETIME 11040 BC.ST BIDIR CTL 4.BV3.PULSETIME 11040 BC.ST BIDIR CTL 4.BV3.PULSETIME 11040 BC.ST BIDIR CTL 4.BV3.RAVELTIME 11040 BC.ST BIDIR CTL 4.BV3.RAVELTIME 11040 BC.ST BIDIR CTL 4.BV3.PULSETIME 11040 BC.ST BIDIR CTL 4.BV3.PULSETIME 11040 BC.ST BIDIR CTL 4.BV3.PULSETIME 11040 BC.ST BIDIR CTL 4.BV3.PULSETIME 11040 BC.ST BIDIR CTL 4.BV3.PULSETIME 11040 BC.ST BIDIR CTL 4.BV3.PULSETIME 11040 BC.ST BIDIR CTL 4.BV4.RAVELTIME 11040 BC.ST BIDIR CTL 4.BV4.RAVELTIME 11040 BC.ST BIDIR CTL 4.BV4.RAVELTIME 11040 BC.ST BIDIR CTL 4.BV4.RAVELTIME 11040 BC.ST BIDIR CTL 4.BV4.RAVELTIME 11051 BC.ST BIDIR CTL 4.BV4.PULSETIME 11052 BC.ST BIDIR CTL 4.BV4.RAVELTIME 11053 BC.ST BIDIR CTL 4.BV4.RAVELTIME 11054 BC.ST BIDIR CTL 4.BV4.RAVELTIME 11055 BC.ST BIDIR CTL 4.	11034	BC.ST_BIDIR_CTL_4.BIDIRVLVCTL_1.REV_OPEN1	Control, BV to open 1st in Reverse Direction
Bidirectional Control - Station 4 Programmed Control, Byto open 3rd in Reverse Direction Bidirectional Control - Station 4 Programmed Control, Byto open 3rd in Reverse Direction Bidirectional Control - Station 4 Programmed Control, Byto open 4th in Reverse Direction Bidirectional Control - Station 4 Programmed Control, Byto open 4th in Reverse Direction Bidirectional Control - Station 4 Programmed Control, Byto open 4th in Reverse Direction Bidirectional Control - Station 4 Programmed Control, Byto close 1st in Reverse Direction Bidirectional Control - Station 4 Programmed Control, Byto close 2nd in Reverse Direction Bidirectional Control - Station 4 Programmed Control, Byto close 2nd in Reverse Direction Bidirectional Control - Station 4 Programmed Control, Byto close 3 Programmed Control, Byto close 3 Programmed Control, Byto close 3 Programmed Control, Byto close 4 Programm			
11037 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV_OPEN3 Bidirectional Control - Station 4 Programmed Control, BV to open 3rd in Reverse Direction Bidirectional Control - Station 4 Programmed Control, BV to open 4th in Reverse Direction Bidirectional Control - Station 4 Programmed Control, BV to close 1st in Reverse Direction Bidirectional Control - Station 4 Programmed Control, BV to close 1st in Reverse Direction Bidirectional Control - Station 4 Programmed Control, BV to close 1st in Reverse Direction Bidirectional Control - Station 4 Programmed Control, BV to close 1st in Reverse Direction Bidirectional Control - Station 4 Programmed Control, BV to close 1st in Reverse Direction Bidirectional Control - Station 4 Programmed Control, BV to close 3rd in Reverse Direction Bidirectional Control - Station 4 Programmed Control, BV to close 3rd in Reverse Direction Bidirectional Control - Station 4 Programmed Control, BV to close 3rd in Reverse Direction Bidirectional Control - Station 4 Programmed Control, BV to close 3rd in Reverse Direction Bidirectional Control - Station 4 Programmed Control, Bidirectional Control - Station 4 Programmed Control, BV to close 4th in Reverse Direction Bidirectional Control - Station 4 Programmed Control, Bidirectional Control - Block Valve 1 Operating Mode, Station 4 Bidirectional Control - Block Valve 1 Operating Bidirectional Control - Block Valve 1 Pulse Time, Station 4 Bidirectional Control - Block Valve 1 Travel Time, Station 4 Bidirectional Control - Block Valve 2 Operating Mode, Station 4 Bidirectional Control - Block Valve 2 Pulse Time, Station 4 Bidirectional Control - Block Valve 2 Pulse Time, Station 4 Bidirectional Control - Block Valve 2 Pulse Time, Station 4 Bidirectional Control - Block Valve 3 Operating Mode, Station 4 Bidirectional Control - Block Valve 3 Operating Mode, Station 4 Bidirectional Control - Block Valve 3 Pulse Time, Station 4 Bidirectional Control - Block Valve 4 Operating Mode, Station 4 Bidirectional Control - Block Valve 4 Pulse Time, Station 4 Bidir	11035	BC.ST_BIDIR_CTL_4.BIDIRVLVCTL_1.REV_OPEN2	Control, BV to open 2nd in Reverse Direction
Bidirectional Control - Station 4 Programmed Control, But open 4th in Reverse Direction	11036	BC ST BIDIR CTI 4 BIDIRVI VCTI 1 REV OPEN3	
Bidirectional Control - Station 4 Programmed Control, BV to close 1 Station 4 Programmed Control, BV to close 1 Station 4 Programmed Control, BV to close 3 rd in Reverse Direction Bidirectional Control - Station 4 Programmed Control, BV to close 3 rd in Reverse Direction Bidirectional Control - Station 4 Programmed Control, BV to close 3 rd in Reverse Direction Bidirectional Control - Station 4 Programmed Control, BV to close 3 rd in Reverse Direction Bidirectional Control - Station 4 Programmed Control, BV to close 3 rd in Reverse Direction Bidirectional Control - Station 4 Programmed Control, BV to close 3 rd in Reverse Direction Bidirectional Control - Station 4 Programmed Control, BV to close 4 rd in Reverse Direction Bidirectional Control - Station 4 Programmed Control, BV to close 4 rd in Reverse Direction Bidirectional Control - Bidirectional Contro			
11038 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV CLOSE1 Control, BV to close at lin Reverse Direction Bidirectional Control - Station 4 Programmed Control, BV to close 2nd in Reverse Direction Bidirectional Control - Station 4 Programmed Control, BV to close 2nd in Reverse Direction Bidirectional Control - Station 4 Programmed Control, BV to close 3nd in Reverse Direction Bidirectional Control - Station 4 Programmed Control, BV to close 3nd in Reverse Direction Bidirectional Control - Station 4 Programmed Control, BV to close 4th Reverse Direction Bidirectional Control - Station 4 Programmed Control, BV to close 4th Reverse Direction Bidirectional Control - Station 4 Programmed Control, BV to close 4th Reverse Direction Bidirectional Control - Bidir	11037	BC.ST_BIDIR_CTL_4.BIDIRVLVCTL_1.REV_OPEN4	
Bidirectional Control - Station 4 Programmed Control - Station 4 Programmed Control - Station 4 Programmed Control - Station 4 Programmed Control - Station 4 Programmed Control - Station 4 Programmed Control - Station 4 Programmed Control - Station 4 Programmed Control - Station 4 Programmed Control - Station 4 Programmed Control - Station 4 Programmed Control - Station 4 Programmed Control - Station 4 Programmed Control - Station 4 Programmed Control - Station 4 Programmed Control - Station 4 Programmed Control - Station 4 Programmed Control - Total - Station 4 Programmed Control - Total - Station 4 Programmed Control - Total - Station 4 Programmed Control - Total - Station 4 Programmed Control - Total - Station 4 Programmed Control - Total - Station 4 Programmed Control - Total - Station 4 Programmed Control - Total - Station 4 Programmed Control - Total - Station 4 Programmed Control - Total - Station 4 Programmed Control - Total - Station 4 Programmed Control - Block Valve 1 Operating Mode, Station 4 Bidirectional Control - Block Valve 1 Operating Mode, Station 4 Bidirectional Control - Block Valve 1 Pulse Time, Station 4 Bidirectional Control - Block Valve 2 Pulse Time, Station 4 Bidirectional Control - Block Valve 2 Pulse Time, Station 4 Bidirectional Control - Block Valve 2 Pulse Time, Station 4 Bidirectional Control - Block Valve 2 Pulse Time, Station 4 Bidirectional Control - Block Valve 2 Pulse Time, Station 4 Bidirectional Control - Block Valve 2 Pulse Time, Station 4 Bidirectional Control - Block Valve 3 Operating Mode, Station 4 Bidirectional Control - Block Valve 3 Pulse Time, Station 4 Bidirectional Control - Block Valve 3 Pulse Time, Station 4 Bidirectional Control - Block Valve 3 Pulse Time, Station 4 Bidirectional Control - Block Valve 3 Pulse Time, Station 4 Bidirectional Control - Block Valve 4 Operating Mode, Station 4 Bidirectional Control - Block Valve 4 Pulse Time, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 5 Pulse Time	11020	DC ST DIDID CTL 4 DIDIDWIWCTL 4 DEV CLOSE4	
11040 BC.ST BIDIR CTL 4.BIDIRVLVCTL 1.REV CLOSE2 11040 BC.ST BIDIR CTL 4.BIDIRVLVCTL 1.REV CLOSE3 11041 BC.ST BIDIR CTL 4.BIDIRVLVCTL 1.REV CLOSE3 11041 BC.ST BIDIR CTL 4.BIDIRVLVCTL 1.REV CLOSE4 11042 BC.ST BIDIR CTL 4.BIDIRVLVCTL 1.REV CLOSE4 11043 BC.ST BIDIR CTL 4.BIDIRVLVCTL 1.TIMEDLY 11044 BC.ST BIDIR CTL 4.BIDIRVLVCTL 1.TIMEDLY 11045 BC.ST BIDIR CTL 4.BV1.MODE 11046 BC.ST BIDIR CTL 4.BV1.MODE 11047 BC.ST BIDIR CTL 4.BV1.PULSETIME 11048 BC.ST BIDIR CTL 4.BV2.MODE 11049 BC.ST BIDIR CTL 4.BV2.MODE 11049 BC.ST BIDIR CTL 4.BV2.MODE 11040 BC.ST BIDIR CTL 4.BV2.MODE 11041 BC.ST BIDIR CTL 4.BV2.MODE 11042 BC.ST BIDIR CTL 4.BV2.MODE 11043 BC.ST BIDIR CTL 4.BV2.MODE 11044 BC.ST BIDIR CTL 4.BV2.MODE 11045 BC.ST BIDIR CTL 4.BV2.MODE 11046 BC.ST BIDIR CTL 4.BV2.MODE 11047 BC.ST BIDIR CTL 4.BV2.MODE 11048 BC.ST BIDIR CTL 4.BV2.MODE 11049 BC.ST BIDIR CTL 4.BV2.TRAVELTIME 11049 BC.ST BIDIR CTL 4.BV3.MODE 11049 BC.ST BIDIR CTL 4.BV3.MODE 11050 BC.ST BIDIR CTL 4.BV3.MODE 11050 BC.ST BIDIR CTL 4.BV3.MODE 11051 BC.ST BIDIR CTL 4.BV3.MODE 11052 BC.ST BIDIR CTL 4.BV3.TRAVELTIME 11053 BC.ST BIDIR CTL 4.BV3.TRAVELTIME 11054 BC.ST BIDIR CTL 4.BV4.MODE 11055 BC.ST BIDIR CTL 4.BV4.MODE 11056 BC.ST BIDIR CTL 4.BV4.TRAVELTIME 11057 BC.ST BIDIR CTL 4.BV4.MODE 11058 BC.ST BIDIR CTL 4.BV4.MODE 11059 BC.ST BIDIR CTL 4.BV4.TRAVELTIME 11050 BC.ST BIDIR CTL 4.BV4.TRAVELTIME 11051 BC.ST BIDIR CTL 4.BV4.TRAVELTIME 11052 BC.ST BIDIR CTL 4.BV4.TRAVELTIME 11053 BC.ST BIDIR CTL 4.BV4.TRAVELTIME 11054 BC.ST BIDIR CTL 4.BV4.TRAVELTIME 11055 BC.ST BIDIR CTL 4.BV4.TRAVELTIME 11056 BC.ST BIDIR CTL 4.BV4.TRAVELTIME 11057 BC.ST BIDIR CTL 4.BV4.TRAVELTIME 11058 BC.ST BIDIR CTL 4.BV4.TRAVELTIME 11059 BC.ST BIDIR CTL 4.BV4.TRAVELTIME 11050 BC.ST BIDIR CTL 4.BV4.TRAVELTIME 11051 BIDIR CTL 4.BV5.TRAVELTIME 11052 BC.ST BIDIR CTL 4.BV5.TRAVELTIME 11053 BC.ST BIDIR CTL 4.BV6.TRAVELTIME 11054 BIDIR CTL 4.BV6.TRAVELTIME 11055 BIDIR CTL 4.BV6.TRAVELTIME 11056 BC.ST BIDIR CTL 4.BV6.TRAVELTIME 11057 BIDIR CTL 4.B	11036	BC.51_BIDIR_CTL_4.BIDIRVLVCTL_1.REV_CLOSE1	
Bidirectional Control - Station 4 Programmed Control - Station 4 Programmed Control - Brown Programmed Control - Station 4 Programmed Control - Brown Programmed Control - Station 4 Programmed Control - Station 4 Programmed Control - Brown Programmed Control - Station 4 Programmed Control - Station 4 Programmed Control - Station 4 Programmed Control - Station 4 Programmed Control - Station 4 Programmed Control - Station 4 Programmed Control - Station 4 Programmed Control - Station 4 Programmed Control - Station 4 Programmed Control - Station 4 Programmed Control - Block Valve 1 Operating Mode, Station 4	11039	BC.ST BIDIR CTL 4.BIDIRVLVCTL 1.REV CLOSE2	
BC.ST BIDIR CTL 4.BIDIRVLVCTL 1.REV CLOSE4 Bidirectional Control - Station 4 Programmed Control. BV to close 4th in Reverse Direction Bidirectional Control - Station 4 Programmed Control. BV to close 4th in Reverse Direction Bidirectional Control - Station 4 Programmed Control. Time delay between valve actions Bidirectional Control - Block Valve 1 Operating Mode, Station 4 Bidirectional Control - Block Valve 1 Operating Mode, Station 4 Bidirectional Control - Block Valve 1 Pulse Time, Station 4 Bidirectional Control - Block Valve 1 Pulse Time, Station 4 Bidirectional Control - Block Valve 2 Operating Mode, Station 4 Bidirectional Control - Block Valve 2 Operating Mode, Station 4 Bidirectional Control - Block Valve 2 Operating Mode, Station 4 Bidirectional Control - Block Valve 2 Operating Mode, Station 4 Bidirectional Control - Block Valve 2 Operating Mode, Station 4 Bidirectional Control - Block Valve 2 Pulse Time, Station 4 Bidirectional Control - Block Valve 2 Pulse Time, Station 4 Bidirectional Control - Block Valve 2 Pulse Time, Station 4 Bidirectional Control - Block Valve 3 Operating Mode, Station 4 Bidirectional Control - Block Valve 3 Operating Mode, Station 4 Bidirectional Control - Block Valve 3 Pulse Time, Station 4 Bidirectional Control - Block Valve 3 Travel Time, Station 4 Bidirectional Control - Block Valve 3 Travel Time, Station 4 Bidirectional Control - Block Valve 3 Travel Time, Station 4 Bidirectional Control - Block Valve 3 Travel Time, Station 4 Bidirectional Control - Block Valve 4 Operating Mode, Station 4 Bidirectional Control - Block Valve 4 Operating Mode, Station 4 Bidirectional Control - Block Valve 4 Pulse Time, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Operating Mode,			Bidirectional Control - Station 4 Programmed
11041 BC.ST BIDIR CTL 4.BIDIRVLYCTL 1.REV CLOSE4 Control, BV to close 4th in Reverse Direction	11040	BC.ST_BIDIR_CTL_4.BIDIRVLVCTL_1.REV_CLOSE3	
Bidirectional Control - Station 4 Programmed Control, Time delay between valve actions Bidirectional Control - Block Valve 1 Operating Mode, Station 4 Bidirectional Control - Block Valve 1 Pulse Time, Station 4 Bidirectional Control - Block Valve 1 Pulse Time, Station 4 Bidirectional Control - Block Valve 1 Pulse Time, Station 4 Bidirectional Control - Block Valve 1 Pulse Time, Station 4 Bidirectional Control - Block Valve 1 Travel Time, Station 4 Bidirectional Control - Block Valve 2 Operating Mode, Station 4 Bidirectional Control - Block Valve 2 Operating Mode, Station 4 Bidirectional Control - Block Valve 2 Operating Mode, Station 4 Bidirectional Control - Block Valve 2 Pulse Time, Station 4 Bidirectional Control - Block Valve 2 Pulse Time, Station 4 Bidirectional Control - Block Valve 3 Operating Mode, Station 4 Bidirectional Control - Block Valve 3 Operating Mode, Station 4 Bidirectional Control - Block Valve 3 Operating Mode, Station 4 Bidirectional Control - Block Valve 3 Operating Mode, Station 4 Bidirectional Control - Block Valve 3 Pulse Time, Station 4 Bidirectional Control - Block Valve 3 Pulse Time, Station 4 Bidirectional Control - Block Valve 3 Pulse Time, Station 4 Bidirectional Control - Block Valve 4 Operating Mode, Station 4 Bidirectional Control - Block Valve 4 Operating Mode, Station 4 Bidirectional Control - Block Valve 4 Pulse Time, Station 4 Bidirectional Control - Block Valve 4 Operating Mode, Station 4 Bidirectional Control - Block Valve 4 Pulse Time, Station 4 Bidirectional Control - Block Valve 4 Pulse Time, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Statio	11041	BC ST BIDIR CTL 4 BIDIRVI VCTL 1 REV CLOSE4	
11042 BC.ST_BIDIR_CTL_4.BIDIRVLVCTL_1.TIMEDLY Sidirectional Control - Block Valve 1 Operating Mode, Station 4	11041	BOOT BIBLIC OTE 4.BIBLICVEVOTE 1.ICEV_CEGGE4	
11043 BC.ST_BIDIR_CTL_4.BV1.MODE Mode, Station 4 Bidirectional Control - Block Valve 1 Pulse Time, Station 4 Bidirectional Control - Block Valve 1 Pulse Time, Station 4 Bidirectional Control - Block Valve 1 Travel Time, Station 4 Bidirectional Control - Block Valve 2 Operating Mode, Station 4 Bidirectional Control - Block Valve 2 Operating Mode, Station 4 Bidirectional Control - Block Valve 2 Pulse Time, Station 4 Bidirectional Control - Block Valve 2 Pulse Time, Station 4 Bidirectional Control - Block Valve 2 Pulse Time, Station 4 Bidirectional Control - Block Valve 2 Travel Time, Station 4 Bidirectional Control - Block Valve 3 Operating Mode, Station 4 Bidirectional Control - Block Valve 3 Operating Mode, Station 4 Bidirectional Control - Block Valve 3 Pulse Time, Station 4 Bidirectional Control - Block Valve 3 Pulse Time, Station 4 Bidirectional Control - Block Valve 3 Pulse Time, Station 4 Bidirectional Control - Block Valve 3 Travel Time, Station 4 Bidirectional Control - Block Valve 3 Travel Time, Station 4 Bidirectional Control - Block Valve 4 Operating Mode, Station 4 Bidirectional Control - Block Valve 4 Operating Mode, Station 4 Bidirectional Control - Block Valve 4 Operating Mode, Station 4 Bidirectional Control - Block Valve 4 Pulse Time, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 5 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Travel Time, Station 4	11042	BC.ST_BIDIR_CTL_4.BIDIRVLVCTL_1.TIMEDLY	Control, Time delay between valve actions
Bidirectional Control - Block Valve 1 Pulse Time, Station 4 Bidirectional Control - Block Valve 1 Pulse Time, Bidirectional Control - Block Valve 1 Travel Time, Station 4 Bidirectional Control - Block Valve 2 Operating Mode, Station 4 Bidirectional Control - Block Valve 2 Operating Mode, Station 4 Bidirectional Control - Block Valve 2 Operating Mode, Station 4 Bidirectional Control - Block Valve 2 Pulse Time, Station 4 Bidirectional Control - Block Valve 2 Pulse Time, Station 4 Bidirectional Control - Block Valve 2 Pulse Time, Station 4 Bidirectional Control - Block Valve 3 Operating Mode, Station 4 Bidirectional Control - Block Valve 3 Operating Mode, Station 4 Bidirectional Control - Block Valve 3 Pulse Time, Station 4 Bidirectional Control - Block Valve 3 Pulse Time, Station 4 Bidirectional Control - Block Valve 3 Travel Time, Station 4 Bidirectional Control - Block Valve 3 Travel Time, Station 4 Bidirectional Control - Block Valve 4 Operating Mode, Station 4 Bidirectional Control - Block Valve 4 Operating Mode, Station 4 Bidirectional Control - Block Valve 4 Pulse Time, Station 4 Bidirectional Control - Block Valve 4 Pulse Time, Station 4 Bidirectional Control - Block Valve 4 Pulse Time, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Bl	44040	DO OT DIDID OTH A DIVAMODE	
Station 4 BC.ST BIDIR CTL 4.BV1.PULSETIME Station 4 Bidirectional Control - Block Valve 1 Travel Time, Station 4 Bidirectional Control - Block Valve 2 Operating Mode, Station 4 Bidirectional Control - Block Valve 2 Operating Mode, Station 4 Bidirectional Control - Block Valve 2 Pulse Time, Station 4 Bidirectional Control - Block Valve 2 Pulse Time, Station 4 Bidirectional Control - Block Valve 2 Travel Time, Station 4 Bidirectional Control - Block Valve 2 Travel Time, Station 4 Bidirectional Control - Block Valve 3 Operating Mode, Station 4 Bidirectional Control - Block Valve 3 Operating Mode, Station 4 Bidirectional Control - Block Valve 3 Operating Mode, Station 4 Bidirectional Control - Block Valve 3 Pulse Time, Station 4 Bidirectional Control - Block Valve 3 Pulse Time, Station 4 Bidirectional Control - Block Valve 3 Pulse Time, Station 4 Bidirectional Control - Block Valve 4 Operating Mode, Station 4 Bidirectional Control - Block Valve 4 Operating Mode, Station 4 Bidirectional Control - Block Valve 4 Operating Mode, Station 4 Bidirectional Control - Block Valve 4 Operating Mode, Station 4 Bidirectional Control - Block Valve 4 Pulse Time, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 O	11043	BC.ST_BIDIR_CTL_4.BV1.MODE	Mode, Station 4 Ridirectional Control Rlock Valve 1 Pulse Time
Bidirectional Control - Block Valve 1 Travel Time, Station 4 Bidirectional Control - Block Valve 2 Operating Mode, Station 4 Bidirectional Control - Block Valve 2 Operating Mode, Station 4 Bidirectional Control - Block Valve 2 Pulse Time, Station 4 Bidirectional Control - Block Valve 2 Pulse Time, Station 4 Bidirectional Control - Block Valve 2 Pulse Time, Station 4 Bidirectional Control - Block Valve 2 Pulse Time, Station 4 Bidirectional Control - Block Valve 2 Travel Time, Station 4 Bidirectional Control - Block Valve 3 Operating Mode, Station 4 Bidirectional Control - Block Valve 3 Operating Mode, Station 4 Bidirectional Control - Block Valve 3 Pulse Time, Station 4 Bidirectional Control - Block Valve 3 Pulse Time, Station 4 Bidirectional Control - Block Valve 3 Travel Time, Station 4 Bidirectional Control - Block Valve 4 Operating Mode, Station 4 Bidirectional Control - Block Valve 4 Operating Mode, Station 4 Bidirectional Control - Block Valve 4 Operating Mode, Station 4 Bidirectional Control - Block Valve 4 Pulse Time, Station 4 Bidirectional Control - Block Valve 4 Pulse Time, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 5 Pulse Time, Station 4 Bidirectional Control - Block Valve 5 Pulse Time, Station 4 Bidirectional Control - Block Valve 5 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Travel Time, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Pulse Time, Station 4 Bidirectiona	11044	BC.ST BIDIR CTL 4.BV1.PULSETIME	,
Bidirectional Control - Block Valve 2 Operating Mode, Station 4 Bidirectional Control - Block Valve 2 Pulse Time, Station 4 Bidirectional Control - Block Valve 2 Pulse Time, Station 4 Bidirectional Control - Block Valve 2 Pulse Time, Station 4 Bidirectional Control - Block Valve 2 Travel Time, Station 4 Bidirectional Control - Block Valve 2 Travel Time, Station 4 Bidirectional Control - Block Valve 3 Operating Mode, Station 4 Bidirectional Control - Block Valve 3 Operating Mode, Station 4 Bidirectional Control - Block Valve 3 Pulse Time, Station 4 Bidirectional Control - Block Valve 3 Travel Time, Station 4 Bidirectional Control - Block Valve 3 Travel Time, Station 4 Bidirectional Control - Block Valve 3 Travel Time, Station 4 Bidirectional Control - Block Valve 4 Operating Mode, Station 4 Bidirectional Control - Block Valve 4 Operating Mode, Station 4 Bidirectional Control - Block Valve 4 Pulse Time, Station 4 Bidirectional Control - Block Valve 4 Pulse Time, Station 4 Bidirectional Control - Block Valve 4 Travel Time, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 5 Pulse Time, Station 4 Bidirectional Control - Block Valve 5 Travel Time, Station 4 Bidirectional Control - Block Valve 5 Travel Time, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Travel Time, Station 4 Bidirectional Control - Block Valve 6 Travel Time, Station 4 Bidirectional Control - Block Valve 6 Travel Time, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Pulse Time, Station A Bidir			
11046 BC.ST BIDIR CTL 4.BV2.MODE 11047 BC.ST BIDIR CTL 4.BV2.PULSETIME 11048 BC.ST BIDIR CTL 4.BV2.TRAVELTIME 11048 BC.ST BIDIR CTL 4.BV2.TRAVELTIME 11049 BC.ST BIDIR CTL 4.BV3.MODE 11050 BC.ST BIDIR CTL 4.BV3.PULSETIME 11051 BC.ST BIDIR CTL 4.BV3.PULSETIME 11052 BC.ST BIDIR CTL 4.BV3.TRAVELTIME 11053 BC.ST BIDIR CTL 4.BV4.MODE 11054 BC.ST BIDIR CTL 4.BV4.PULSETIME 11055 BC.ST BIDIR CTL 4.BV4.PULSETIME 11056 BC.ST BIDIR CTL 4.BV4.TRAVELTIME 11057 BC.ST BIDIR CTL 4.BV5.PULSETIME 11058 BC.ST BIDIR CTL 4.BV5.PULSETIME 11059 BC.ST BIDIR CTL 4.BV5.PULSETIME 11050 BC.ST BIDIR CTL 4.BV5.PULSETIME 11051 BC.ST BIDIR CTL 4.BV5.PULSETIME 11052 BC.ST BIDIR CTL 4.BV5.PULSETIME 11053 BC.ST BIDIR CTL 4.BV5.PULSETIME 11054 BC.ST BIDIR CTL 4.BV5.PULSETIME 11055 BC.ST BIDIR CTL 4.BV5.PULSETIME 11056 BC.ST BIDIR CTL 4.BV5.PULSETIME 11057 BC.ST BIDIR CTL 4.BV5.PULSETIME 11058 BC.ST BIDIR CTL 4.BV5.PULSETIME 11059 BC.ST BIDIR CTL 4.BV5.RAVELTIME 11059 BC.ST BIDIR CTL 4.BV5.RAVELTIME 11059 BC.ST BIDIR CTL 4.BV5.PULSETIME 11059 BC.ST BIDIR CTL 4.BV6.PULSETIME 11050 BC.ST BIDIR CTL 4.BV6.P	11045	BC.ST_BIDIR_CTL_4.BV1.TRAVELTIME	
Bidirectional Control - Block Valve 2 Pulse Time, Station 4 Station 4	11046	BC ST BIDID CTL 4 BV2 MODE	
11047 BC.ST BIDIR CTL 4.BV2.PULSETIME 11048 BC.ST BIDIR CTL 4.BV2.TRAVELTIME 11049 BC.ST BIDIR CTL 4.BV3.MODE 11050 BC.ST BIDIR CTL 4.BV3.PULSETIME 11051 BC.ST BIDIR CTL 4.BV3.TRAVELTIME 11052 BC.ST BIDIR CTL 4.BV4.MODE 11053 BC.ST BIDIR CTL 4.BV4.MODE 11054 BC.ST BIDIR CTL 4.BV4.PULSETIME 11055 BC.ST BIDIR CTL 4.BV4.PULSETIME 11056 BC.ST BIDIR CTL 4.BV4.TRAVELTIME 11057 BC.ST BIDIR CTL 4.BV5.PULSETIME 11058 BC.ST BIDIR CTL 4.BV5.PULSETIME 11059 BC.ST BIDIR CTL 4.BV5.TRAVELTIME 11059 BC.ST BIDIR CTL 4.BV6.MODE 11059 BC.ST BIDIR CTL 4.BV6.PULSETIME 11050 BC.ST BIDIR CTL 4.BV6.PULSETIME 11050 BC.ST BIDIR CTL 4.BV6.PULSETIME 11051 BC.ST BIDIR CTL 4.BV5.TRAVELTIME 11052 BC.ST BIDIR CTL 4.BV5.PULSETIME 11053 BC.ST BIDIR CTL 4.BV5.PULSETIME 11054 BC.ST BIDIR CTL 4.BV5.PULSETIME 11055 BC.ST BIDIR CTL 4.BV5.PULSETIME 11056 BC.ST BIDIR CTL 4.BV5.PULSETIME 11057 BC.ST BIDIR CTL 4.BV6.MODE 11058 BC.ST BIDIR CTL 4.BV6.MODE 11059 BC.ST BIDIR CTL 4.BV6.PULSETIME 11059 BC.ST BIDIR CTL 4.BV6.PULSETIME 11059 BC.ST BIDIR CTL 4.BV6.PULSETIME 11050 BC.ST BIDIR CTL 4.BV6.PULSETIME 11051 BIDIR CTL 4.BV6.PULSETIME 11052 BC.ST BIDIR CTL 4.BV6.PULSETIME 11053 BC.ST BIDIR CTL 4.BV6.PULSETIME 11054 BIDIR CTL 4.BV6.PULSETIME 11055 BC.ST BIDIR CTL 4.BV6.PULSETIME 11056 BC.ST BIDIR CTL 4.BV6.PULSETIME 11057 BC.ST BIDIR CTL 4.BV6.PULSETIME 11058 BC.ST BIDIR CTL 4.BV6.PULSETIME 11059 BC.ST BIDIR CTL 4.BV6.PULSETIME 11050 BC.ST BIDIR CTL 4.BV6.TRAVELTIME 11051 BIDIR CTL 4.BV6.TRAVELTIME 11052 BIDIR CTL 4.BV6.TRAVELTIME 11053 BIDIR CTL 4.BV6.TRAVELTIME 11054 BIDIR CTL 4.BV6.TRAVELTIME 11055 BIDIR CTL 4.BV6.TRAVELTIME 11056 BC.ST BIDIR CTL 4.BV6.TRAVELTIME 11057 BIDIR CTL 4.BV6.TRAVELTIME 11058 BC.ST BIDIR CTL 4.BV6.TRAVELTIME 11059 BC.ST BIDIR CTL 4.BV6.TRAVELTIME 11050 BC.ST BIDIR CTL 4.BV6.TRAVELTIME 11050 BC.ST BIDIR CTL 4.BV6.TRAVELTIME 11050 BC.ST BIDIR CTL 4.BV6.TRAVELTIME 11050 BC.ST BIDIR CTL 4.BV6.TRAVELTIME 11050 BC.ST BIDIR CTL 4.BV6.TRAVELTIME 11050 BC.ST BIDIR CTL 4.BV6.TRAVELTIM	11040	BC.ST_BIDIK_CTL_4.BV2.INODE	Bidirectional Control - Block Valve 2 Pulse Time.
11048 BC.ST BIDIR CTL 4.BV2.TRAVELTIME 11049 BC.ST BIDIR CTL 4.BV3.MODE BC.ST BIDIR CTL 4.BV3.MODE 11050 BC.ST BIDIR CTL 4.BV3.PULSETIME 11051 BC.ST BIDIR CTL 4.BV3.PULSETIME 11052 BC.ST BIDIR CTL 4.BV4.MODE 11053 BC.ST BIDIR CTL 4.BV4.MODE 11054 BC.ST BIDIR CTL 4.BV4.PULSETIME 11055 BC.ST BIDIR CTL 4.BV4.TRAVELTIME 11056 BC.ST BIDIR CTL 4.BV4.TRAVELTIME 11057 BC.ST BIDIR CTL 4.BV5.PULSETIME 11058 BC.ST BIDIR CTL 4.BV5.PULSETIME 11059 BC.ST BIDIR CTL 4.BV5.TRAVELTIME 11059 BC.ST BIDIR CTL 4.BV5.TRAVELTIME 11059 BC.ST BIDIR CTL 4.BV6.PULSETIME 11059 BC.ST BIDIR CTL 4.BV6.PULSETIME 11050 BC.ST BIDIR CTL 4.BV6.PULSETIME 11051 BC.ST BIDIR CTL 4.BV6.PULSETIME 11052 BC.ST BIDIR CTL 4.BV6.PULSETIME 11053 BC.ST BIDIR CTL 4.BV5.TRAVELTIME 11054 BC.ST BIDIR CTL 4.BV5.TRAVELTIME 11055 BC.ST BIDIR CTL 4.BV5.TRAVELTIME 11056 BC.ST BIDIR CTL 4.BV5.TRAVELTIME 11057 BC.ST BIDIR CTL 4.BV6.PULSETIME 11058 BC.ST BIDIR CTL 4.BV6.PULSETIME 11059 BC.ST BIDIR CTL 4.BV6.PULSETIME 11059 BC.ST BIDIR CTL 4.BV6.PULSETIME 11050 BC.ST BIDIR CTL 4.BV6.PULSETIME 11051 BIDIR CTL 4.BV6.PULSETIME 11051 BIDIR CTL 4.BV6.PULSETIME 11052 BIDIR CTL 4.BV6.PULSETIME 11053 BIDIR CTL 4.BV6.PULSETIME 11054 BIDIR CTL 4.BV6.PULSETIME 11055 BIDIR CTL 4.BV6.PULSETIME 11056 BC.ST BIDIR CTL 4.BV6.PULSETIME 11057 BC.ST BIDIR CTL 4.BV6.PULSETIME 11058 BC.ST BIDIR CTL 4.BV6.PULSETIME 11059 BC.ST BIDIR CTL 4.BV6.PULSETIME 11050 BC.ST BIDIR CTL 4.BV6.PULSETIME 11050 BC.ST BIDIR CTL 4.BV6.PULSETIME 11051 BIDIR CTL 4.BV6.PULSETIME 11052 BIDIR CTL 4.BV6.PULSETIME 11053 BIDIR CTL 4.BV6.PULSETIME 11054 BIDIR CTL 4.BV6.PULSETIME 11055 BIDIR CTL 4.BV6.PULSETIME 11056 BC.ST BIDIR CTL 4.BV6.PULSETIME 11057 BIDIR CTL 4.BV6.PULSETIME 11058 BC.ST BIDIR CTL 4.BV6.PULSETIME 11059 BC.ST BIDIR CTL 4.BV6.PULSETIME 11050 BC.ST BIDIR CTL 4.BV6.PULSETIME 11050 BC.ST BIDIR CTL 4.BV6.PULSETIME 11050 BC.ST BIDIR CTL 4.BV6.PULSETIME 11050 BC.ST BIDIR CTL 4.BV6.PULSETIME 11050 BC.ST BIDIR CTL 4.BV6.PULSETIME 11050 BC.ST BIDIR CTL 4.BV6.P	11047	BC.ST_BIDIR_CTL_4.BV2.PULSETIME	Station 4
Bidirectional Control - Block Valve 3 Operating Mode, Station 4			
11049 BC.ST_BIDIR_CTL_4.BV3.MODE Bidirectional Control - Block Valve 3 Pulse Time, Station 4 Bidirectional Control - Block Valve 3 Travel Time, Station 4 Bidirectional Control - Block Valve 3 Travel Time, Station 4 Bidirectional Control - Block Valve 4 Operating Mode, Station 4 Bidirectional Control - Block Valve 4 Operating Mode, Station 4 Bidirectional Control - Block Valve 4 Pulse Time, Station 4 Bidirectional Control - Block Valve 4 Pulse Time, Station 4 Bidirectional Control - Block Valve 4 Pulse Time, Station 4 Bidirectional Control - Block Valve 4 Travel Time, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 5 Travel Time, Station 4 Bidirectional Control - Block Valve 5 Travel Time, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Travel Time, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bid	11048	BC.ST_BIDIR_CTL_4.BV2.TRAVELTIME	Station 4 Ridirectional Control Block Valve 3 Operating
Bidirectional Control - Block Valve 3 Pulse Time, Station 4 Bidirectional Control - Block Valve 3 Travel Time, Station 4 Bidirectional Control - Block Valve 3 Travel Time, Station 4 Bidirectional Control - Block Valve 4 Operating Mode, Station 4 Bidirectional Control - Block Valve 4 Operating Mode, Station 4 Bidirectional Control - Block Valve 4 Pulse Time, Station 4 Bidirectional Control - Block Valve 4 Pulse Time, Station 4 Bidirectional Control - Block Valve 4 Pulse Time, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 5 Pulse Time, Station 4 Bidirectional Control - Block Valve 5 Pulse Time, Station 4 Bidirectional Control - Block Valve 5 Travel Time, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Travel Time, Station 4 Bidirectional Control - Block Valve 6 Travel Time, Station 4 Bidirectional Control - Block Valve 6 Travel Time, Station 4 Bidirectional Control - Block Valve 6 Travel Time, Station 4 Bidirectional Control - Block Valve 6 Travel Time, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Pulse Time, Station 4 Bidirectional Control - Block Valve 7 Pulse Time, Station 4 Bidirectional Control - Block Valve 7 Pulse Time, Station 4	11049	BC.ST BIDIR CTL 4.BV3.MODE	
Bidirectional Control - Block Valve 3 Travel Time, Station 4 Bidirectional Control - Block Valve 4 Operating Mode, Station 4 Bidirectional Control - Block Valve 4 Operating Mode, Station 4 Bidirectional Control - Block Valve 4 Pulse Time, Station 4 Bidirectional Control - Block Valve 4 Pulse Time, Station 4 Bidirectional Control - Block Valve 4 Pulse Time, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 5 Pulse Time, Station 4 Bidirectional Control - Block Valve 5 Pulse Time, Station 4 Bidirectional Control - Block Valve 5 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Travel Time, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4			
11051 BC.ST_BIDIR_CTL_4.BV3.TRAVELTIME Station 4 Bidirectional Control - Block Valve 4 Operating Mode, Station 4 Bidirectional Control - Block Valve 4 Pulse Time, Station 4 Bidirectional Control - Block Valve 4 Pulse Time, Station 4 Bidirectional Control - Block Valve 4 Travel Time, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 5 Pulse Time, Station 4 Bidirectional Control - Block Valve 5 Pulse Time, Station 4 Bidirectional Control - Block Valve 5 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Travel Time, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4	11050	BC.ST_BIDIR_CTL_4.BV3.PULSETIME	
Bidirectional Control - Block Valve 4 Operating Mode, Station 4 Bidirectional Control - Block Valve 4 Pulse Time, Station 4 Bidirectional Control - Block Valve 4 Pulse Time, Station 4 Bidirectional Control - Block Valve 4 Pulse Time, Station 4 Bidirectional Control - Block Valve 4 Travel Time, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 5 Pulse Time, Station 4 Bidirectional Control - Block Valve 5 Pulse Time, Station 4 Bidirectional Control - Block Valve 5 Travel Time, Station 4 Bidirectional Control - Block Valve 5 Travel Time, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Travel Time, Station 4 Bidirectional Control - Block Valve 6 Travel Time, Station 4 Bidirectional Control - Block Valve 6 Travel Time, Station 4 Bidirectional Control - Block Valve 6 Travel Time, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4	11051	BC ST BIDID CTL 4 BV3 TDAVELTIME	,
11052 BC.ST_BIDIR_CTL_4.BV4.MODE Bidirectional Control - Block Valve 4 Pulse Time, Station 4 Bidirectional Control - Block Valve 4 Travel Time, Station 4 Bidirectional Control - Block Valve 4 Travel Time, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 5 Pulse Time, Station 4 Bidirectional Control - Block Valve 5 Pulse Time, Station 4 Bidirectional Control - Block Valve 5 Travel Time, Station 4 Bidirectional Control - Block Valve 5 Travel Time, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Travel Time, Station 4 Bidirectional Control - Block Valve 6 Travel Time, Station 4 Bidirectional Control - Block Valve 6 Travel Time, Station 4 Bidirectional Control - Block Valve 6 Travel Time, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Pulse Time, Station 4 Bidirectional Control - Block Valve 7 Pulse Time, Station 4 Bidirectional Control - Block Valve 7 Pulse Time, Station 4 Bidirectional Control - Block Valve 7 Pulse Time, Station 4 Bidirectional Control - Block Valve 7 Pulse Time, Station 4 Bidirectional Control - Block Valve 7 Pulse Time, Station 4 Bidirectional Control - Block Valve 7 Pulse Time, Station 4 Bidirectional Control - Block Valve 7 Pulse Time, Station 4 Bidirectional Control - Block Valve 7 Pulse Time, Station 4 Bidirectional Control - Block Valve 7 Pulse Time, Station 4 Bidirectional Control - Block Valve 7 Pulse Time, Station 4 Bidirectional Control - Block Valve 7 Pulse Tim	11031	BC.ST_BIBIIX_CTE_4.BVS.TIXAVEETIME	
11053 BC.ST_BIDIR_CTL_4.BV4.PULSETIME Station 4 Bidirectional Control - Block Valve 4 Travel Time, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 5 Pulse Time, Station 4 Bidirectional Control - Block Valve 5 Pulse Time, Station 4 Bidirectional Control - Block Valve 5 Travel Time, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Travel Time, Station 4 Bidirectional Control - Block Valve 6 Travel Time, Station 4 Bidirectional Control - Block Valve 6 Travel Time, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4	11052	BC.ST_BIDIR_CTL_4.BV4.MODE	Mode, Station 4
Bidirectional Control - Block Valve 4 Travel Time, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 5 Pulse Time, Station 4 Bidirectional Control - Block Valve 5 Pulse Time, Station 4 Bidirectional Control - Block Valve 5 Travel Time, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Travel Time, Station 4 Bidirectional Control - Block Valve 6 Travel Time, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4			·
11054 BC.ST_BIDIR_CTL_4.BV4.TRAVELTIME 11055 BC.ST_BIDIR_CTL_4.BV5.MODE 11056 BC.ST_BIDIR_CTL_4.BV5.PULSETIME 11057 BC.ST_BIDIR_CTL_4.BV5.TRAVELTIME 11058 BC.ST_BIDIR_CTL_4.BV5.TRAVELTIME 11059 BC.ST_BIDIR_CTL_4.BV6.MODE 11059 BC.ST_BIDIR_CTL_4.BV6.PULSETIME 11060 BC.ST_BIDIR_CTL_4.BV6.TRAVELTIME 11060 BC.ST_BIDIR_CTL_4.BV6.TRAVELTIME 11061 BC.ST_BIDIR_CTL_4.BV7.MODE 11061 BC.ST_BIDIR_CTL_4.BV7.MODE 11062 BC.ST_BIDIR_CTL_4.BV7.MODE 11063 BC.ST_BIDIR_CTL_4.BV6.TRAVELTIME 11064 BIDIR_CTL_4.BV6.TRAVELTIME 11065 BC.ST_BIDIR_CTL_4.BV6.TRAVELTIME 11066 BC.ST_BIDIR_CTL_4.BV6.TRAVELTIME 11067 BIDIR_CTL_4.BV6.TRAVELTIME 11068 BC.ST_BIDIR_CTL_4.BV6.TRAVELTIME 11069 BC.ST_BIDIR_CTL_4.BV7.MODE 11060 BC.ST_BIDIR_CTL_4.BV7.MODE 11061 BC.ST_BIDIR_CTL_4.BV7.MODE 11062 BIDIR_CTL_4.BV7.MODE 11063 BIDIR_CTL_4.BV7.MODE 11064 BIDIR_CTL_6.BIDIR_	11053	BO'21_RIDIK_C1F_4'RA4'ANFEHIME	
Bidirectional Control - Block Valve 5 Operating Mode, Station 4 Bidirectional Control - Block Valve 5 Pulse Time, Station 4 Bidirectional Control - Block Valve 5 Pulse Time, Station 4 Bidirectional Control - Block Valve 5 Travel Time, Station 4 Bidirectional Control - Block Valve 5 Travel Time, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Travel Time, Station 4 Bidirectional Control - Block Valve 6 Travel Time, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Pulse Time, Station 4 Bidirectional Control - Block Valve 7 Pulse Time, Station 4 Bidirectional Control - Block Valve 7 Pulse Time, Mode, Station 4 Bidirectional Control - Block Valve 7 Pulse Time,	11054	BC.ST BIDIR CTL 4.BV4.TRAVELTIME	· ·
Bidirectional Control - Block Valve 5 Pulse Time, Station 4 Bidirectional Control - Block Valve 5 Pulse Time, Station 4 Bidirectional Control - Block Valve 5 Travel Time, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Travel Time, Station 4 Bidirectional Control - Block Valve 6 Travel Time, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Pulse Time, Station 4 Bidirectional Control - Block Valve 7 Pulse Time, Station 4			Bidirectional Control - Block Valve 5 Operating
11056 BC.ST_BIDIR_CTL_4.BV5.PULSETIME Bidirectional Control - Block Valve 5 Travel Time, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Travel Time, Station 4 Bidirectional Control - Block Valve 6 Travel Time, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Pulse Time, Bidirectional Control - Block Valve 7 Pulse Time,	11055	BC.ST_BIDIR_CTL_4.BV5.MODE	
Bidirectional Control - Block Valve 5 Travel Time, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Travel Time, Station 4 Bidirectional Control - Block Valve 6 Travel Time, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Pulse Time, Bidirectional Control - Block Valve 7 Pulse Time,	11056	RC ST BIDIR CTI 4 BV5 PHI SETIME	·
11057 BC.ST_BIDIR_CTL_4.BV5.TRAVELTIME Bidirectional Control - Block Valve 6 Operating Mode, Station 4 Bidirectional Control - Block Valve 6 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Travel Time, Station 4 Bidirectional Control - Block Valve 6 Travel Time, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Pulse Time, Bidirectional Control - Block Valve 7 Pulse Time,	11000	DO.OT_DIDIN_OTE_T.DVO.FOLDETIME	
11058 BC.ST_BIDIR_CTL_4.BV6.MODE Mode, Station 4 Bidirectional Control - Block Valve 6 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Travel Time, Station 4 Bidirectional Control - Block Valve 6 Travel Time, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Pulse Time, Bidirectional Control - Block Valve 7 Pulse Time,	11057	BC.ST_BIDIR_CTL_4.BV5.TRAVELTIME	Station 4
Bidirectional Control - Block Valve 6 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Pulse Time, Station 4 Bidirectional Control - Block Valve 6 Travel Time, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Pulse Time,	440==	DO OT DIDID OTH A DIVENTORS	
11059 BC.ST_BIDIR_CTL_4.BV6.PULSETIME Station 4 Bidirectional Control - Block Valve 6 Travel Time, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Pulse Time,	11058	BC.ST_BIDIR_CTL_4.BV6.MODE	
Bidirectional Control - Block Valve 6 Travel Time, Station 4 Bidirectional Control - Block Valve 6 Travel Time, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Pulse Time,	11059	BC.ST BIDIR CTL 4.BV6.PULSETIME	
Bidirectional Control - Block Valve 7 Operating Mode, Station 4 Bidirectional Control - Block Valve 7 Pulse Time,			
11061 BC.ST_BIDIR_CTL_4.BV7.MODE Mode, Station 4 Bidirectional Control - Block Valve 7 Pulse Time,	11060	BC.ST_BIDIR_CTL_4.BV6.TRAVELTIME	
Bidirectional Control - Block Valve 7 Pulse Time,	11061	BC ST BIDID CTI 4 BV7 MODE	
· ·	11001	DO.O1_DIDIN_CTL_4.DV1.IVIODE	
	11062	BC.ST_BIDIR_CTL_4.BV7.PULSETIME	·

Reg#	Variable	Description
		Bidirectional Control - Block Valve 7 Travel Time,
11063	BC.ST_BIDIR_CTL_4.BV7.TRAVELTIME	Station 4
11064	BC.ST_BIDIR_CTL_4.BV8.MODE	Bidirectional Control - Block Valve 8 Operating Mode, Station 4
		Bidirectional Control - Block Valve 8 Pulse Time,
11065	BC.ST_BIDIR_CTL_4.BV8.PULSETIME	Station 4 Bidirectional Control - Block Valve 8 Travel Time,
11066	BC.ST BIDIR CTL 4.BV8.TRAVELTIME	Station 4
		Bidirectional Control - Station 6 Direction
11067	BI.ST6_DIR_IND	Indicator selected Bidirectional Control - Station 6 Limit Switch
		Indication Limit Switch 1 Close Limit Switch
11068	BI.ST6_CLS1	source selected
		Bidirectional Control - Station 6 Limit Switch
11069	BI.ST6 CLS2	Indication Limit Switch 2 Close Limit Switch source selected
		Bidirectional Control - Station 6 Limit Switch
44070	DI OTO OLOG	Indication Limit Switch 1 Open Limit Switch
11070	BI.ST6_OLS1	source selected Bidirectional Control - Station 6 Limit Switch
		Indication Limit Switch 2 Open Limit Switch
11071	BI.ST6_OLS2	source selected
11072	BC.ST BIDIR CTL 6.BIDIRVLVCTL 1.FWD OPEN1	Bidirectional Control - Station 6 Programmed Control, BV to open 1st in Forward Direction
11072	BC.31_BIDIK_CTL_0.BIDIKVLVCTL_1.FWD_OPENT	Bidirectional Control - Station 6 Programmed
11073	BC.ST_BIDIR_CTL_6.BIDIRVLVCTL_1.FWD_OPEN2	Control, BV to open 2nd in Forward Direction
44074	DO OT DIDID OTL C DIDIDI// VOTL 4 FIMD ODENIO	Bidirectional Control - Station 6 Programmed
11074	BC.ST_BIDIR_CTL_6.BIDIRVLVCTL_1.FWD_OPEN3	Control, BV to open 3rd in Forward Direction Bidirectional Control - Station 6 Programmed
11075	BC.ST_BIDIR_CTL_6.BIDIRVLVCTL_1.FWD_OPEN4	Control, BV to open 4th in Forward Direction
4.4070	DO OT DIDID OTL A DIDIDIVI VOTI A FIAID OLOGEA	Bidirectional Control - Station 6 Programmed
11076	BC.ST_BIDIR_CTL_6.BIDIRVLVCTL_1.FWD_CLOSE1	Control, BV to close 1st in Forward Direction Bidirectional Control - Station 6 Programmed
11077	BC.ST_BIDIR_CTL_6.BIDIRVLVCTL_1.FWD_CLOSE2	Control, BV to close 2nd in Forward Direction
		Bidirectional Control - Station 6 Programmed
11078	BC.ST_BIDIR_CTL_6.BIDIRVLVCTL_1.FWD_CLOSE3	Control, BV to close 3rd in Forward Direction Bidirectional Control - Station 6 Programmed
11079	BC.ST_BIDIR_CTL_6.BIDIRVLVCTL_1.FWD_CLOSE4	Control, BV to close 4th in Forward Direction
		Bidirectional Control - Station 6 Programmed
11080	BC.ST_BIDIR_CTL_6.BIDIRVLVCTL_1.REV_OPEN1	Control, BV to open 1st in Reverse Direction Bidirectional Control - Station 6 Programmed
11081	BC.ST_BIDIR_CTL_6.BIDIRVLVCTL_1.REV_OPEN2	Control, BV to open 2nd in Reverse Direction
		Bidirectional Control - Station 6 Programmed
11082	BC.ST_BIDIR_CTL_6.BIDIRVLVCTL_1.REV_OPEN3	Control, BV to open 3rd in Reverse Direction Bidirectional Control - Station 6 Programmed
11083	BC.ST BIDIR CTL 6.BIDIRVLVCTL 1.REV OPEN4	Control, BV to open 4th in Reverse Direction
		Bidirectional Control - Station 6 Programmed
11084	BC.ST_BIDIR_CTL_6.BIDIRVLVCTL_1.REV_CLOSE1	Control, BV to close 1st in Reverse Direction
11085	BC.ST_BIDIR_CTL_6.BIDIRVLVCTL_1.REV_CLOSE2	Bidirectional Control - Station 6 Programmed Control, BV to close 2nd in Reverse Direction
1.000		Bidirectional Control - Station 6 Programmed
11086	BC.ST_BIDIR_CTL_6.BIDIRVLVCTL_1.REV_CLOSE3	Control, BV to close 3rd in Reverse Direction
11087	BC.ST_BIDIR_CTL_6.BIDIRVLVCTL_1.REV_CLOSE4	Bidirectional Control - Station 6 Programmed Control, BV to close 4th in Reverse Direction
		Bidirectional Control - Station 6 Programmed
11088	BC.ST_BIDIR_CTL_6.BIDIRVLVCTL_1.TIMEDLY	Control, Time delay between valve actions
11089	BC.ST_BIDIR_CTL_6.BV1.MODE	Bidirectional Control - Block Valve 1 Operating Mode, Station 6
11009	BO.OT_DIDITY_OTE_O.DVT.INIODE	Bidirectional Control - Block Valve 1 Pulse Time,
11090	BC.ST_BIDIR_CTL_6.BV1.PULSETIME	Station 6
11001	BC ST BIDID CTL 6 BV/1 TDAV/ELTIME	Bidirectional Control - Block Valve 1 Travel Time,
11091	BC.ST_BIDIR_CTL_6.BV1.TRAVELTIME	Station 6

Bidirectional Control - Block Valve 2 Operating	Reg#	Variable	Description
Bidirectional Control - Block Valve 2 Pulse Time, Station 6			
11099 BC.ST. BIDIR CTL 6.BV2.PULSETIME Bidirectional Control - Block Valve 2 Travel Time, Station 6 Bidirectional Control - Block Valve 3 Operating Mode, Station 6 Bidirectional Control - Block Valve 3 Operating Mode, Station 6 Bidirectional Control - Block Valve 3 Pulse Time, Station 6 Bidirectional Control - Block Valve 3 Pulse Time, Station 6 Bidirectional Control - Block Valve 3 Pulse Time, Station 6 Bidirectional Control - Block Valve 3 Pulse Time, Station 6 Bidirectional Control - Block Valve 4 Operating Mode, Station 6 Bidirectional Control - Block Valve 4 Operating Mode, Station 6 Bidirectional Control - Block Valve 4 Operating Mode, Station 6 Bidirectional Control - Block Valve 4 Pulse Time, Station 6 Bidirectional Control - Block Valve 4 Travel Time, Station 6 Bidirectional Control - Block Valve 4 Travel Time, Station 6 Bidirectional Control - Block Valve 4 Travel Time, Station 6 Bidirectional Control - Block Valve 5 Operating Mode, Station 6 Bidirectional Control - Block Valve 5 Operating Mode, Station 6 Bidirectional Control - Block Valve 5 Pulse Time, Station 6 Bidirectional Control - Block Valve 6 Operating Mode, Station 6 Bidirectional Control - Block Valve 6 Operating Mode, Station 6 Bidirectional Control - Block Valve 6 Operating Mode, Station 6 Bidirectional Control - Block Valve 6 Operating Mode, Station 6 Bidirectional Control - Block Valve 6 Operating Mode, Station 6 Bidirectional Control - Block Valve 7 Operating Mode, Station 6 Bidirectional Control - Block Valve 7 Pulse Time, Station 6 Bidirectional Control - Block Valve 7 Pulse Time, Station 6 Bidirectional Control - Block Valve 7 Pulse Time, Station 6 Bidirectional Control - Block Valve 7 Pulse Time, Station 6 Bidirectional Control - Block Valve 7 Pulse Time, Station 6 Bidirectional Control - Block Valve 7 Pulse Time, Station 6 Bidirectional Control - Block Valve 7 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control -	11092	BC.ST_BIDIR_CTL_6.BV2.MODE	
11095 BC.ST_BIDIR_CTL_6_BV2_TRAVELTIME Station 6 Bidirectional Control - Block Valve 3 Operating Mode. Station 6 Bidirectional Control - Block Valve 3 Pulse Time, Station 6 Bidirectional Control - Block Valve 3 Pulse Time, Station 6 Bidirectional Control - Block Valve 3 Pulse Time, Station 6 Bidirectional Control - Block Valve 3 Travel Time, Station 6 Bidirectional Control - Block Valve 3 Travel Time, Station 6 Bidirectional Control - Block Valve 4 Operating Mode. Station 6 Bidirectional Control - Block Valve 4 Operating Mode. Station 6 Bidirectional Control - Block Valve 4 Operating Mode. Station 6 Bidirectional Control - Block Valve 4 Pulse Time, Station 6 Bidirectional Control - Block Valve 4 Pulse Time, Station 6 Bidirectional Control - Block Valve 4 Travel Time, Station 6 Bidirectional Control - Block Valve 4 Travel Time, Station 6 Bidirectional Control - Block Valve 5 Operating Mode. Station 6 Bidirectional Control - Block Valve 5 Operating Mode. Station 6 Bidirectional Control - Block Valve 5 Pulse Time, Station 6 Bidirectional Control - Block Valve 5 Pulse Time, Station 6 Bidirectional Control - Block Valve 5 Travel Time, Station 6 Bidirectional Control - Block Valve 6 Operating Mode. Station 6 Bidirectional Control - Block Valve 6 Operating Mode. Station 6 Bidirectional Control - Block Valve 6 Pulse Time, Station 6 Bidirectional Control - Block Valve 7 Operating Mode. Station 6 Bidirectional Control - Block Valve 7 Operating Mode. Station 6 Bidirectional Control - Block Valve 7 Pulse Time, Station 6 Bidirectional Control - Block Valve 7 Pulse Time, Station 6 Bidirectional Control - Block Valve 7 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bi	11093	BC.ST_BIDIR_CTL_6.BV2.PULSETIME	Station 6
Bidirectional Control - Block Valve 3 Operating Mode, Station 6			•
11095 BC.ST BIDIR CTL. 6.BV3.MODE Mode, Station 6 Bidirectional Control - Block Valve 3 Pulse Time, Station 6 Bidirectional Control - Block Valve 3 Travel Time, Station 6 Bidirectional Control - Block Valve 3 Travel Time, Station 6 Bidirectional Control - Block Valve 4 Operating Mode, Station 6 Bidirectional Control - Block Valve 4 Operating Mode, Station 6 Bidirectional Control - Block Valve 4 Operating Mode, Station 6 Bidirectional Control - Block Valve 4 Pulse Time, Station 6 Bidirectional Control - Block Valve 4 Pulse Time, Station 6 Bidirectional Control - Block Valve 4 Travel Time, Station 6 Bidirectional Control - Block Valve 4 Travel Time, Station 6 Bidirectional Control - Block Valve 5 Operating Mode, Station 6 Bidirectional Control - Block Valve 5 Operating Mode, Station 6 Bidirectional Control - Block Valve 5 Operating Mode, Station 6 Bidirectional Control - Block Valve 5 Operating Mode, Station 6 Bidirectional Control - Block Valve 5 Operating Mode, Station 6 Bidirectional Control - Block Valve 5 Operating Mode, Station 6 Bidirectional Control - Block Valve 6 Operating Mode, Station 6 Bidirectional Control - Block Valve 6 Operating Mode, Station 6 Bidirectional Control - Block Valve 6 Operating Mode, Station 6 Bidirectional Control - Block Valve 6 Operating Mode, Station 6 Bidirectional Control - Block Valve 6 Operating Mode, Station 6 Bidirectional Control - Block Valve 7 Operating Mode, Station 6 Bidirectional Control - Block Valve 7 Operating Mode, Station 6 Bidirectional Control - Block Valve 7 Operating Mode, Station 6 Bidirectional Control - Block Valve 7 Operating Mode, Station 6 Bidirectional Control - Block Valve 7 Operating Mode, Station 6 Bidirectional Control - Block Valve 8 Operating Mode, Station 6 Bidirectional Control - Block Valve 8 Operating Mode, Station 6 Bidirectional Control - Block Valve 8 Operating Mode, Station 6 Bidirectional Control - Block Valve 8 Operating Mode, Station 6 Bidirectional Control - Block Va	11094	BC.ST_BIDIR_CTL_6.BV2.TRAVELTIME	
11096 BC.ST BIDIR CTL 6.BV3.PULSETIME Station 6 Bidirectional Control - Block Valve 3 Travel Time, Station 6 Bidirectional Control - Block Valve 4 Operating Mode, Station 6 Bidirectional Control - Block Valve 4 Operating Mode, Station 6 Bidirectional Control - Block Valve 4 Pulse Time, Station 6 Bidirectional Control - Block Valve 4 Pulse Time, Station 6 Bidirectional Control - Block Valve 4 Pulse Time, Station 6 Bidirectional Control - Block Valve 4 Pulse Time, Station 6 Bidirectional Control - Block Valve 4 Travel Time, Station 6 Bidirectional Control - Block Valve 4 Travel Time, Station 6 Bidirectional Control - Block Valve 5 Operating Mode, Station 6 Bidirectional Control - Block Valve 5 Operating Mode, Station 6 Bidirectional Control - Block Valve 5 Pulse Time, Station 6 Bidirectional Control - Block Valve 5 Travel Time, Station 6 Bidirectional Control - Block Valve 5 Travel Time, Station 6 Bidirectional Control - Block Valve 6 Operating Mode, Station 6 Bidirectional Control - Block Valve 6 Operating Mode, Station 6 Bidirectional Control - Block Valve 6 Operating Mode, Station 6 Bidirectional Control - Block Valve 6 Travel Time, Station 6 Bidirectional Control - Block Valve 6 Travel Time, Station 6 Bidirectional Control - Block Valve 7 Operating Mode, Station 6 Bidirectional Control - Block Valve 7 Operating Mode, Station 6 Bidirectional Control - Block Valve 7 Operating Mode, Station 6 Bidirectional Control - Block Valve 7 Travel Time, Station 6 Bidirectional Control - Block Valve 7 Travel Time, Station 6 Bidirectional Control - Block Valve 8 Operating Mode, Station 6 Bidirectional Control - Block Valve 8 Operating Mode, Station 6 Bidirectional Control - Block Valve 8 Operating Mode, Station 6 Bidirectional Control - Block Valve 8 Operating Mode, Station 6 Bidirectional Control - Block Valve 8 Operating Mode, Station 6 Bidirectional Control - Block Valve 8 Operating Mode, Station 6 Bidirectional Control - Block Valve 8 Operating Mode, Sta	11095	BC.ST_BIDIR_CTL_6.BV3.MODE	Mode, Station 6
Bidirectional Control - Block Valve 3 Travel Time, Station 6 Bidirectional Control - Block Valve 4 Operating Mode, Station 6 Bidirectional Control - Block Valve 4 Operating Mode, Station 6 Bidirectional Control - Block Valve 4 Pulse Time, Station 6 Bidirectional Control - Block Valve 4 Pulse Time, Station 6 Bidirectional Control - Block Valve 4 Pulse Time, Station 6 Bidirectional Control - Block Valve 4 Travel Time, Station 6 Bidirectional Control - Block Valve 4 Travel Time, Station 6 Bidirectional Control - Block Valve 5 Operating Mode, Station 6 Bidirectional Control - Block Valve 5 Operating Mode, Station 6 Bidirectional Control - Block Valve 5 Operating Mode, Station 6 Bidirectional Control - Block Valve 5 Pulse Time, Station 6 Bidirectional Control - Block Valve 5 Travel Time, Station 6 Bidirectional Control - Block Valve 5 Travel Time, Station 6 Bidirectional Control - Block Valve 6 Operating Mode, Station 6 Bidirectional Control - Block Valve 6 Operating Mode, Station 6 Bidirectional Control - Block Valve 6 Operating Mode, Station 6 Bidirectional Control - Block Valve 6 Operating Mode, Station 6 Bidirectional Control - Block Valve 7 Operating Mode, Station 6 Bidirectional Control - Block Valve 7 Operating Mode, Station 6 Bidirectional Control - Block Valve 7 Operating Mode, Station 6 Bidirectional Control - Block Valve 7 Operating Mode, Station 6 Bidirectional Control - Block Valve 7 Operating Mode, Station 6 Bidirectional Control - Block Valve 7 Operating Mode, Station 6 Bidirectional Control - Block Valve 7 Operating Mode, Station 6 Bidirectional Control - Block Valve 7 Operating Mode, Station 6 Bidirectional Control - Block Valve 8 Operating Mode, Station 6 Bidirectional Control - Block Valve 8 Operating Mode, Station 6 Bidirectional Control - Block Valve 8 Operating Mode, Station 6 Bidirectional Control - Block Valve 8 Operating Mode, Station 6 Bidirectional Control - Block Valve 8 Operating Mode, Station 6 Bidirectional Control - Block	11096	BC.ST BIDIR CTL 6.BV3.PULSETIME	·
Bidirectional Control - Block Valve 4 Operating			Bidirectional Control - Block Valve 3 Travel Time,
Bidirectional Control - Block Valve 4 Pulse Time, Station 6 Bidirectional Control - Block Valve 4 Travel Time, Station 6 Bidirectional Control - Block Valve 4 Travel Time, Station 6 Bidirectional Control - Block Valve 5 Operating Mode, Station 6 Bidirectional Control - Block Valve 5 Operating Mode, Station 6 Bidirectional Control - Block Valve 5 Operating Mode, Station 6 Bidirectional Control - Block Valve 5 Pulse Time, Station 6 Bidirectional Control - Block Valve 5 Pulse Time, Station 6 Bidirectional Control - Block Valve 5 Travel Time, Station 6 Bidirectional Control - Block Valve 5 Travel Time, Station 6 Bidirectional Control - Block Valve 6 Operating Mode, Station 6 Bidirectional Control - Block Valve 6 Operating Mode, Station 6 Bidirectional Control - Block Valve 6 Operating Mode, Station 6 Bidirectional Control - Block Valve 6 Operating Mode, Station 6 Bidirectional Control - Block Valve 6 Operating Mode, Station 6 Bidirectional Control - Block Valve 6 Operating Mode, Station 6 Bidirectional Control - Block Valve 7 Operating Mode, Station 6 Bidirectional Control - Block Valve 7 Operating Mode, Station 6 Bidirectional Control - Block Valve 7 Operating Mode, Station 6 Bidirectional Control - Block Valve 7 Operating Mode, Station 6 Bidirectional Control - Block Valve 7 Travel Time, Station 6 Bidirectional Control - Block Valve 7 Travel Time, Station 6 Bidirectional Control - Block Valve 8 Operating Mode, Station 6 Bidirectional Control - Block Valve 8 Operating Mode, Station 6 Bidirectional Control - Block Valve 8 Operating Mode, Station 6 Bidirectional Control - Block Valve 8 Operating Mode, Station 6 Bidirectional Control - Block Valve 8 Operating Mode, Station 6 Bidirectional Control - Block Valve 8 Operating Mode, Station 6 Bidirectional Control - Block Valve 8 Operating Mode, Station 6 Bidirectional Control - Block Valve 8 Operating Mode, Station 6 Bidirectional Control - Block Valve 8 Operating Mode, Station 6 Bidirectional Control - Bloc	11097	BC.ST_BIDIR_CTL_6.BV3.TRAVELTIME	Bidirectional Control - Block Valve 4 Operating
11099 BC.ST BIDIR CTL 6.BV4.PULSETIME Bidirectional Control - Block Valve 4 Travel Time, Station 6 Bidirectional Control - Block Valve 5 Operating Mode, Station 6 Bidirectional Control - Block Valve 5 Operating Mode, Station 6 Bidirectional Control - Block Valve 5 Operating Mode, Station 6 Bidirectional Control - Block Valve 5 Pulse Time, Station 6 Bidirectional Control - Block Valve 5 Pulse Time, Station 6 Bidirectional Control - Block Valve 5 Pulse Time, Station 6 Bidirectional Control - Block Valve 5 Pulse Time, Station 6 Bidirectional Control - Block Valve 6 Operating Mode, Station 6 Bidirectional Control - Block Valve 6 Operating Mode, Station 6 Bidirectional Control - Block Valve 6 Operating Mode, Station 6 Bidirectional Control - Block Valve 6 Pulse Time, Station 6 Bidirectional Control - Block Valve 6 Pulse Time, Station 6 Bidirectional Control - Block Valve 6 Pulse Time, Station 6 Bidirectional Control - Block Valve 6 Travel Time, Station 6 Bidirectional Control - Block Valve 7 Operating Mode, Station 6 Bidirectional Control - Block Valve 7 Operating Mode, Station 6 Bidirectional Control - Block Valve 7 Pulse Time, Station 6 Bidirectional Control - Block Valve 7 Pulse Time, Station 6 Bidirectional Control - Block Valve 7 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Operating Bidirectional Control - Block Valve 8 Operating Bidirectional Control - Block Valve 8 Operating Bidirectional Control - Block Valve 8 Operating Bidirectional Control - Block Valve 8 Operating Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Travel Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Blo	11098	BC.ST_BIDIR_CTL_6.BV4.MODE	Mode, Station 6
11100 BC.ST BIDIR CTL 6.BV4.TRAVELTIME Station 6 Bidirectional Control - Block Valve 5 Operating Mode, Station 6 Bidirectional Control - Block Valve 5 Operating Mode, Station 6 Bidirectional Control - Block Valve 5 Pulse Time, Station 6 Bidirectional Control - Block Valve 5 Pulse Time, Station 6 Bidirectional Control - Block Valve 5 Pulse Time, Station 6 Bidirectional Control - Block Valve 6 Operating Mode, Station 6 Bidirectional Control - Block Valve 6 Operating Mode, Station 6 Bidirectional Control - Block Valve 6 Operating Mode, Station 6 Bidirectional Control - Block Valve 6 Pulse Time, Station 6 Bidirectional Control - Block Valve 6 Pulse Time, Station 6 Bidirectional Control - Block Valve 6 Pulse Time, Station 6 Bidirectional Control - Block Valve 6 Pulse Time, Station 6 Bidirectional Control - Block Valve 7 Operating Mode, Station 6 Bidirectional Control - Block Valve 7 Operating Mode, Station 6 Bidirectional Control - Block Valve 7 Pulse Time, Station 6 Bidirectional Control - Block Valve 7 Pulse Time, Station 6 Bidirectional Control - Block Valve 7 Pulse Time, Station 6 Bidirectional Control - Block Valve 7 Pulse Time, Station 6 Bidirectional Control - Block Valve 7 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Operating Mode, Station 6 Bidirectional Control - Block Valve 8 Operating Mode, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block V	11099	BC.ST_BIDIR_CTL_6.BV4.PULSETIME	Station 6
Bidirectional Control - Block Valve 5 Operating	44400	DO OT DIDID OT A DIVISTRALE	·
11101 BC.ST BIDIR CTL 6.BV5.MODE	11100	BC.ST_BIDIR_CTL_6.BV4.TRAVELTIME	
11102 BC.ST_BIDIR_CTL_6_BV5.PULSETIME Bidirectional Control - Block Valve 5 Travel Time, Station 6	11101	BC.ST_BIDIR_CTL_6.BV5.MODE	Mode, Station 6
Bidirectional Control - Block Valve 5 Travel Time, Station 6 Bidirectional Control - Block Valve 6 Operating Mode, Station 6 Bidirectional Control - Block Valve 6 Operating Mode, Station 6 Bidirectional Control - Block Valve 6 Operating Mode, Station 6 Bidirectional Control - Block Valve 6 Pulse Time, Station 6 Bidirectional Control - Block Valve 6 Pulse Time, Station 6 Bidirectional Control - Block Valve 6 Travel Time, Station 6 Bidirectional Control - Block Valve 6 Travel Time, Station 6 Bidirectional Control - Block Valve 7 Operating Mode, Station 6 Bidirectional Control - Block Valve 7 Operating Mode, Station 6 Bidirectional Control - Block Valve 7 Pulse Time, Station 6 Bidirectional Control - Block Valve 7 Pulse Time, Station 6 Bidirectional Control - Block Valve 7 Travel Time, Station 6 Bidirectional Control - Block Valve 7 Travel Time, Station 6 Bidirectional Control - Block Valve 8 Operating Mode, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block V	11102	BC.ST BIDIR CTL 6.BV5.PULSETIME	
Bidirectional Control - Block Valve 6 Operating Mode, Station 6 Bidirectional Control - Block Valve 6 Pulse Time, Station 6 Bidirectional Control - Block Valve 6 Pulse Time, Station 6 Bidirectional Control - Block Valve 6 Travel Time, Station 6 Bidirectional Control - Block Valve 6 Travel Time, Station 6 Bidirectional Control - Block Valve 6 Travel Time, Station 6 Bidirectional Control - Block Valve 7 Operating Mode, Station 6 Bidirectional Control - Block Valve 7 Operating Mode, Station 6 Bidirectional Control - Block Valve 7 Pulse Time, Station 6 Bidirectional Control - Block Valve 7 Pulse Time, Station 6 Bidirectional Control - Block Valve 7 Travel Time, Station 6 Bidirectional Control - Block Valve 8 Operating Mode, Station 6 Bidirectional Control - Block Valve 8 Operating Mode, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valv			·
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11105 BC.ST_BIDIR_CTL_6.BV6.PULSETIME Bidirectional Control - Block Valve 6 Travel Time, Station 6 Bidirectional Control - Block Valve 7 Operating Mode, Station 6 Bidirectional Control - Block Valve 7 Operating Mode, Station 6 Bidirectional Control - Block Valve 7 Operating Mode, Station 6 Bidirectional Control - Block Valve 7 Pulse Time, Station 6 Bidirectional Control - Block Valve 7 Pulse Time, Station 6 Bidirectional Control - Block Valve 7 Travel Time, Station 6 Bidirectional Control - Block Valve 7 Travel Time, Station 6 Bidirectional Control - Block Valve 8 Operating Mode, Station 6 Bidirectional Control - Block Valve 8 Operating Mode, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Travel Time, Station 6 Bidirectional Control - Block Valve 8 Travel Time, Station 6 Bidirectional Control - Block Valve 8 Travel Time, Station 6 Bidirectional Control - Block Valve 8 Travel Time, Station 6 Bidirectional Control - Block Valve 8 Travel Time, Station 6 Bidirectional Control - Block Valve 8 Travel Time, Station 6 Bidirectional Control - Block Valve 8 Travel Time, Station 6 Bidirectional Control - Block Valve 8 Travel Time, Station 6 Bidirectional Control - Block Valve 8 Travel Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time	11104	BC.ST_BIDIR_CTL_6.BV6.MODE	Mode, Station 6
11106 BC.ST_BIDIR_CTL_6.BV6.TRAVELTIME Station 6 Bidirectional Control - Block Valve 7 Operating Mode, Station 6 Bidirectional Control - Block Valve 7 Pulse Time, Station 6 Bidirectional Control - Block Valve 7 Travel Time, Station 6 Bidirectional Control - Block Valve 7 Travel Time, Station 6 Bidirectional Control - Block Valve 7 Travel Time, Station 6 Bidirectional Control - Block Valve 8 Operating Mode, Station 6 Bidirectional Control - Block Valve 8 Operating Mode, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Travel Time, Station 6 Bidirectional Control - Block Valve 8 Travel Time, Station 6 Bidirectional Control - Block Valve 8 Travel Time, Station 6 Bidirectional Control - Block Valve 8 Travel Time, Station 6 Bidirectional Control - Block Valve 8 Travel Time, Station 6 Bidirectional Control - Block Valve 8 Travel Time, Station 6 Bidirectional Control - Block Valve 8 Travel Time, Station 6 Bidirectional Control - Block Valve 8 Travel Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8	11105	BC.ST_BIDIR_CTL_6.BV6.PULSETIME	Station 6
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11108 BC.ST BIDIR CTL 6.BV7.PULSETIME Bidirectional Control - Block Valve 7 Travel Time, Station 6 Bidirectional Control - Block Valve 8 Operating Mode, Station 6 Bidirectional Control - Block Valve 8 Operating Mode, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Travel Time, Station 6 Bidirectional Control - Block Valve 8 Travel Time, Station 6 Bidirectional Control - Block Valve 8 Travel Time, Station 6 Bidirectional Control - Block Valve 8 Travel Time, Station 6 Bidirectional Control - Block Valve 8 Travel Time, Station 6 Bidirectional Control - Block Valve 8 Travel Time, Station 6 Bidirectional Control - Block Valve 8 Travel Time, Station 6 Bidirectional Control - Block Valve 8 Travel Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 Bidirectional Control - Block Valve 8 Pulse Time, Station 6 B	11107		Mode, Station 6
Bidirectional Control - Block Valve 7 Travel Time, Station 6	11108	BC.ST BIDIR CTL 6.BV7.PULSETIME	
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Bidirectional Control - Block Valve 8 Travel Time, Station 6	11110	BO.OT_BIBIIX_OTE_0.BV0.INIOBE	
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Reg#	Variable	Description
11129	MB.SPARE	*** RESERVED FOR FUTURE USE ***
11130	MB.SPARE	*** RESERVED FOR FUTURE USE ***
11131	MB.SPARE	*** RESERVED FOR FUTURE USE ***
11132	MB.SPARE	*** RESERVED FOR FUTURE USE ***
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11135	MB.SPARE	*** RESERVED FOR FUTURE USE ***
11136	MB.SPARE	*** RESERVED FOR FUTURE USE ***
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11140	MB.SPARE	*** RESERVED FOR FUTURE USE ***
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11142	MB.SPARE	*** RESERVED FOR FUTURE USE ***
11143	MB.SPARE	*** RESERVED FOR FUTURE USE ***
11144	MB.SPARE	*** RESERVED FOR FUTURE USE ***
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11146	MB.SPARE	*** RESERVED FOR FUTURE USE ***
11147	MB.SPARE	*** RESERVED FOR FUTURE USE ***
11148	MB.SPARE	*** RESERVED FOR FUTURE USE ***
11149	MB.SPARE	*** RESERVED FOR FUTURE USE ***
11150	MB.SPARE	*** RESERVED FOR FUTURE USE ***
11151	MB.SPARE	*** RESERVED FOR FUTURE USE ***
11152	MB.SPARE	*** RESERVED FOR FUTURE USE ***
11153	MB.SPARE	*** RESERVED FOR FUTURE USE ***
11154	MB.SPARE	*** RESERVED FOR FUTURE USE ***
11155	MB.SPARE	*** RESERVED FOR FUTURE USE ***
11156	MB.SPARE	*** RESERVED FOR FUTURE USE ***
11157	MB.SPARE	*** RESERVED FOR FUTURE USE ***
11158	MB.SPARE	*** RESERVED FOR FUTURE USE ***
11159	pg_GC.GC_1.GC_1.S1_BTU_Raw	GC Dataset 1 Raw BTU
11160	pg_GC.GC_1.GC_1.S1_BTUSat_Raw	GC Dataset 1 Raw Saturated BTU
11161	pg_GC.GC_1.GC_1.S1_C2_Raw	GC Dataset 1 Raw C2
11162	pg_GC.GC_1.GC_1.S1_C3_Raw	GC Dataset 1 Raw C3
11163	pg_GC.GC_1.GC_1.S1_C6plus_Raw	GC Dataset 1 Raw C6 Plus
11164	pg_GC.GC_1.GC_1.S1_C9Plus_Raw	GC Dataset 1 Raw C9 Plus
11165	pg_GC.GC_1.GC_1.S1_CH4_Raw	GC Dataset 1 Raw CH4
11166	pg_GC.GC_1.GC_1.S1_CHDP_Raw	GC Dataset 1 Raw CHDP
11167	pg_GC.GC_1.GC_1.S1_CO_Raw	GC Dataset 1 Raw CO
11168	pg_GC.GC_1.GC_1.S1_CO2_Raw	GC Dataset 1 Raw CO2
11169	pg_GC.GC_1.GC_1.S1_IC4_Raw	GC Dataset 1 Raw IC4
11170	pg_GC.GC_1.GC_1.S1_IC5_Raw	GC Dataset 1 Raw IC5
11171	pg_GC.GC_1.GC_1.S1_N2_Raw	GC Dataset 1 Raw N2
11172	pg_GC.GC_1.GC_1.S1_NC10_Raw	GC Dataset 1 Raw NC10
11173	pg_GC.GC_1.GC_1.S1_NC4_Raw	GC Dataset 1 Raw NC4
11174	pg_GC.GC_1.GC_1.S1_NC5_Raw	GC Dataset 1 Raw NC5
11175	pg_GC.GC_1.GC_1.S1_NC6_Raw	GC Dataset 1 Raw NC6
11176	pg_GC.GC_1.GC_1.S1_NC7_Raw	GC Dataset 1 Raw NC7
11177	pg_GC.GC_1.GC_1.S1_NC8_Raw	GC Dataset 1 Raw NC8
11178	pg_GC.GC_1.GC_1.S1_NC9_Raw	GC Dataset 1 Raw NC9

Reg#	Variable	Description
11179	pg GC.GC 1.GC 1.S1 NeoC5 Raw	GC Dataset 1 Raw NeoC5
11180	pg_GC.GC_1.GC_1.S1_SG_Raw	GC Dataset 1 Raw Specific Gravity
11181	pg GC.GC 1.GC 1.S1 Wobbe Raw	GC Dataset 1 Raw Wobbe Index
11182	pg GC.GC 1.GC 2.S1 BTU Raw	GC Dataset 2 Raw BTU
11183	pg_GC.GC_1.GC_2.S1_BTUSat_Raw	GC Dataset 2 Raw Saturated BTU
11184	pg_GC.GC_1.GC_2.S1_C2_Raw	GC Dataset 2 Raw C2
11185	pg_GC.GC_1.GC_2.S1_C3_Raw	GC Dataset 2 Raw C3
11186	pg_GC.GC_1.GC_2.S1_C6plus_Raw	GC Dataset 2 Raw C6 Plus
11187	pg GC.GC 1.GC 2.S1 C9Plus Raw	GC Dataset 2 Raw C9 Plus
11188	pg GC.GC 1.GC 2.S1 CH4 Raw	GC Dataset 2 Raw CH4
11189	pg_GC.GC_1.GC_2.S1_CHDP_Raw	GC Dataset 2 Raw CHDP
11190	pg_GC.GC_1.GC_2.S1_CO_Raw	GC Dataset 2 Raw CO
11191	pg GC.GC 1.GC 2.S1 CO2 Raw	GC Dataset 2 Raw CO2
11192	pg GC.GC 1.GC 2.S1 IC4 Raw	GC Dataset 2 Raw IC4
11193	pg_GC.GC_1.GC_2.S1_IC5_Raw	GC Dataset 2 Raw IC5
11194	pg_GC.GC_1.GC_2.S1_N2_Raw	GC Dataset 2 Raw N2
11195	pg GC.GC 1.GC 2.S1 NC10 Raw	GC Dataset 2 Raw NC10
11196	pg_GC.GC_1.GC_2.S1_NC4_Raw	GC Dataset 2 Raw NC4
11197	pg_GC.GC_1.GC_2.S1_NC5_Raw	GC Dataset 2 Raw NC5
11198	pg_GC.GC_1.GC_2.S1_NC6_Raw	GC Dataset 2 Raw NC6
11199	pg_GC.GC_1.GC_2.S1_NC7_Raw	GC Dataset 2 Raw NC7
11200	pg GC.GC 1.GC 2.S1 NC8 Raw	GC Dataset 2 Raw NC8
11201	pg GC.GC 1.GC 2.S1 NC9 Raw	GC Dataset 2 Raw NC9
11202	pg_GC.GC_1.GC_2.S1_NeoC5_Raw	GC Dataset 2 Raw NeoC5
11203	pg_GC.GC_1.GC_2.S1_SG_Raw	GC Dataset 2 Raw Specific Gravity
11204	pg_GC.GC_1.GC_2.S1_Wobbe_Raw	GC Dataset 2 Raw Wobbe Index
11205	pg_GC.GC_1.GC_3.S1_BTU_Raw	GC Dataset 3 Raw BTU
11206	pg_GC.GC_1.GC_3.S1_BTUSat_Raw	GC Dataset 3 Raw Saturated BTU
11207	pg_GC.GC_1.GC_3.S1_C2_Raw	GC Dataset 3 Raw C2
11208	pg_GC.GC_1.GC_3.S1_C3_Raw	GC Dataset 3 Raw C3
11209	pg_GC.GC_1.GC_3.S1_C6plus_Raw	GC Dataset 3 Raw C6 Plus
11210	pg_GC.GC_1.GC_3.S1_C9Plus_Raw	GC Dataset 3 Raw C9 Plus
11211	pg_GC.GC_1.GC_3.S1_CH4_Raw	GC Dataset 3 Raw CH4
11212	pg_GC.GC_1.GC_3.S1_CHDP_Raw	GC Dataset 3 Raw CHDP
11213	pg_GC.GC_1.GC_3.S1_CO_Raw	GC Dataset 3 Raw CO
11214	pg_GC.GC_1.GC_3.S1_CO2_Raw	GC Dataset 3 Raw CO2
11215	pg_GC.GC_1.GC_3.S1_IC4_Raw	GC Dataset 3 Raw IC4
11216	pg_GC.GC_1.GC_3.S1_IC5_Raw	GC Dataset 3 Raw IC5
11217	pg_GC.GC_1.GC_3.S1_N2_Raw	GC Dataset 3 Raw N2
11218	pg_GC.GC_1.GC_3.S1_NC10_Raw	GC Dataset 3 Raw NC10
11219	pg_GC.GC_1.GC_3.S1_NC4_Raw	GC Dataset 3 Raw NC4
11220	pg_GC.GC_1.GC_3.S1_NC5_Raw	GC Dataset 3 Raw NC5
11221	pg_GC.GC_1.GC_3.S1_NC6_Raw	GC Dataset 3 Raw NC6
11222	pg_GC.GC_1.GC_3.S1_NC7_Raw	GC Dataset 3 Raw NC7
11223	pg_GC.GC_1.GC_3.S1_NC8_Raw	GC Dataset 3 Raw NC8
11224	pg_GC.GC_1.GC_3.S1_NC9_Raw	GC Dataset 3 Raw NC9
11225	pg_GC.GC_1.GC_3.S1_NeoC5_Raw	GC Dataset 3 Raw NeoC5
11226	pg_GC.GC_1.GC_3.S1_SG_Raw	GC Dataset 3 Raw Specific Gravity
11227	pg_GC.GC_1.GC_3.S1_Wobbe_Raw	GC Dataset 3 Raw Wobbe Index
11228	pg_GC.GC_1.GC_4.S1_BTU_Raw	GC Dataset 4 Raw BTU

Reg#	Variable	Description
11229	pg GC.GC 1.GC 4.S1 BTUSat Raw	GC Dataset 4 Raw Saturated BTU
11230	pg_GC.GC_1.GC_4.S1_C2_Raw	GC Dataset 4 Raw C2
11231	pg GC.GC 1.GC 4.S1 C3 Raw	GC Dataset 4 Raw C3
11232	pg GC.GC 1.GC 4.S1 C6plus Raw	GC Dataset 4 Raw C6 Plus
11233	pg GC.GC 1.GC 4.S1 C9Plus Raw	GC Dataset 4 Raw C9 Plus
11234	pg_GC.GC_1.GC_4.S1_CH4_Raw	GC Dataset 4 Raw CH4
11235	pg_GC.GC_1.GC_4.S1_CHDP_Raw	GC Dataset 4 Raw CHDP
11236	pg_GC.GC_1.GC_4.S1_CO_Raw	GC Dataset 4 Raw CO
11237	pg GC.GC 1.GC 4.S1 CO2 Raw	GC Dataset 4 Raw CO2
11238	pg GC.GC 1.GC 4.S1 IC4 Raw	GC Dataset 4 Raw IC4
11239	pg_GC.GC_1.GC_4.S1_IC5_Raw	GC Dataset 4 Raw IC5
11240	pg_GC.GC_1.GC_4.S1_N2_Raw	GC Dataset 4 Raw N2
11241	pg GC.GC 1.GC 4.S1 NC10 Raw	GC Dataset 4 Raw NC10
11242	pg GC.GC 1.GC 4.S1 NC4 Raw	GC Dataset 4 Raw NC4
11243	pg_GC.GC_1.GC_4.S1_NC5_Raw	GC Dataset 4 Raw NC5
11244	pg_GC.GC_1.GC_4.S1_NC6_Raw	GC Dataset 4 Raw NC6
11245	pg GC.GC 1.GC 4.S1 NC7 Raw	GC Dataset 4 Raw NC7
11246	pg_GC.GC_1.GC_4.S1_NC8_Raw	GC Dataset 4 Raw NC8
11247	pg_GC.GC_1.GC_4.S1_NC9_Raw	GC Dataset 4 Raw NC9
11248	pg_GC.GC_1.GC_4.S1_NeoC5_Raw	GC Dataset 4 Raw NeoC5
11249	pg_GC.GC_1.GC_4.S1_SG_Raw	GC Dataset 4 Raw Specific Gravity
11250	pg GC.GC 1.GC 4.S1 Wobbe Raw	GC Dataset 4 Raw Wobbe Index
11251	pg_GC.GC_1.GC_5.S1_BTU_Raw	GC Dataset 5 Raw BTU
11252	pg_GC.GC_1.GC_5.S1_BTUSat_Raw	GC Dataset 5 Raw Saturated BTU
11253	pg_GC.GC_1.GC_5.S1_C2_Raw	GC Dataset 5 Raw C2
11254	pg_GC.GC_1.GC_5.S1_C3_Raw	GC Dataset 5 Raw C3
11255	pg_GC.GC_1.GC_5.S1_C6plus_Raw	GC Dataset 5 Raw C6 Plus
11256	pg_GC.GC_1.GC_5.S1_C9Plus_Raw	GC Dataset 5 Raw C9 Plus
11257	pg_GC.GC_1.GC_5.S1_CH4_Raw	GC Dataset 5 Raw CH4
11258	pg_GC.GC_1.GC_5.S1_CHDP_Raw	GC Dataset 5 Raw CHDP
11259	pg_GC.GC_1.GC_5.S1_CO_Raw	GC Dataset 5 Raw CO
11260	pg_GC.GC_1.GC_5.S1_CO2_Raw	GC Dataset 5 Raw CO2
11261	pg_GC.GC_1.GC_5.S1_IC4_Raw	GC Dataset 5 Raw IC4
11262	pg_GC.GC_1.GC_5.S1_IC5_Raw	GC Dataset 5 Raw IC5
11263	pg_GC.GC_1.GC_5.S1_N2_Raw	GC Dataset 5 Raw N2
11264	pg_GC.GC_1.GC_5.S1_NC10_Raw	GC Dataset 5 Raw NC10
11265	pg_GC.GC_1.GC_5.S1_NC4_Raw	GC Dataset 5 Raw NC4
11266	pg_GC.GC_1.GC_5.S1_NC5_Raw	GC Dataset 5 Raw NC5
11267	pg_GC.GC_1.GC_5.S1_NC6_Raw	GC Dataset 5 Raw NC6
11268	pg_GC.GC_1.GC_5.S1_NC7_Raw	GC Dataset 5 Raw NC7
11269	pg_GC.GC_1.GC_5.S1_NC8_Raw	GC Dataset 5 Raw NC8
11270	pg_GC.GC_1.GC_5.S1_NC9_Raw	GC Dataset 5 Raw NC9
11271	pg_GC.GC_1.GC_5.S1_NeoC5_Raw	GC Dataset 5 Raw NeoC5
11272	pg_GC.GC_1.GC_5.S1_SG_Raw	GC Dataset 5 Raw Specific Gravity
11273	pg_GC.GC_1.GC_5.S1_Wobbe_Raw	GC Dataset 5 Raw Wobbe Index
11274	pg_GC.GC_1.GC_6.S1_BTU_Raw	GC Dataset 6 Raw BTU
11275	pg_GC.GC_1.GC_6.S1_BTUSat_Raw	GC Dataset 6 Raw Saturated BTU
11276	pg_GC.GC_1.GC_6.S1_C2_Raw	GC Dataset 6 Raw C2
11277	pg_GC.GC_1.GC_6.S1_C3_Raw	GC Dataset 6 Raw C3
11278	pg_GC.GC_1.GC_6.S1_C6plus_Raw	GC Dataset 6 Raw C6 Plus

Reg#	Variable	Description
11279	pg GC.GC 1.GC 6.S1 C9Plus Raw	GC Dataset 6 Raw C9 Plus
11280	pg_GC.GC_1.GC_6.S1_CH4_Raw	GC Dataset 6 Raw CH4
11281	pg GC.GC 1.GC 6.S1 CHDP Raw	GC Dataset 6 Raw CHDP
11282	pg GC.GC 1.GC 6.S1 CO Raw	GC Dataset 6 Raw CO
11283	pg GC.GC 1.GC 6.S1 CO2 Raw	GC Dataset 6 Raw CO2
11284	pg_GC.GC_1.GC_6.S1_IC4_Raw	GC Dataset 6 Raw IC4
11285	pg_GC.GC_1.GC_6.S1_IC5_Raw	GC Dataset 6 Raw IC5
11286	pg_GC.GC_1.GC_6.S1_N2_Raw	GC Dataset 6 Raw N2
11287	pg GC.GC 1.GC 6.S1 NC10 Raw	GC Dataset 6 Raw NC10
11288	pg GC.GC 1.GC 6.S1 NC4 Raw	GC Dataset 6 Raw NC4
11289	pg_GC.GC_1.GC_6.S1_NC5_Raw	GC Dataset 6 Raw NC5
11290	pg_GC.GC_1.GC_6.S1_NC6_Raw	GC Dataset 6 Raw NC6
11291	pg GC.GC 1.GC 6.S1 NC7 Raw	GC Dataset 6 Raw NC7
11292	pg GC.GC 1.GC 6.S1 NC8 Raw	GC Dataset 6 Raw NC8
11293	pg_GC.GC_1.GC_6.S1_NC9_Raw	GC Dataset 6 Raw NC9
11294	pg GC.GC 1.GC 6.S1 NeoC5 Raw	GC Dataset 6 Raw NeoC5
11295	pg_GC.GC_1.GC_6.S1_SG_Raw	GC Dataset 6 Raw Specific Gravity
11296	pg_GC.GC_1.GC_6.S1_Wobbe_Raw	GC Dataset 6 Raw Wobbe Index
11297	pg_GC.GC_1.GC_7.S1_BTU_Raw	GC Dataset 7 Raw BTU
11298	pg_GC.GC_1.GC_7.S1_BTUSat_Raw	GC Dataset 7 Raw Saturated BTU
11299	pg_GC.GC_1.GC_7.S1_C2_Raw	GC Dataset 7 Raw C2
11300	pg_GC.GC_1.GC_7.S1_C3_Raw	GC Dataset 7 Raw C3
11301	pg_GC.GC_1.GC_7.S1_C6plus_Raw	GC Dataset 7 Raw C6 Plus
11302	pg_GC.GC_1.GC_7.S1_C9Plus_Raw	GC Dataset 7 Raw C9 Plus
11303	pg_GC.GC_1.GC_7.S1_CH4_Raw	GC Dataset 7 Raw CH4
11304	pg_GC.GC_1.GC_7.S1_CHDP_Raw	GC Dataset 7 Raw CHDP
11305	pg_GC.GC_1.GC_7.S1_CO_Raw	GC Dataset 7 Raw CO
11306	pg_GC.GC_1.GC_7.S1_CO2_Raw	GC Dataset 7 Raw CO2
11307	pg_GC.GC_1.GC_7.S1_IC4_Raw	GC Dataset 7 Raw IC4
11308	pg_GC.GC_1.GC_7.S1_IC5_Raw	GC Dataset 7 Raw IC5
11309	pg_GC.GC_1.GC_7.S1_N2_Raw	GC Dataset 7 Raw N2
11310	pg_GC.GC_1.GC_7.S1_NC10_Raw	GC Dataset 7 Raw NC10
11311	pg_GC.GC_1.GC_7.S1_NC4_Raw	GC Dataset 7 Raw NC4
11312	pg_GC.GC_1.GC_7.S1_NC5_Raw	GC Dataset 7 Raw NC5
11313	pg_GC.GC_1.GC_7.S1_NC6_Raw	GC Dataset 7 Raw NC6
11314	pg_GC.GC_1.GC_7.S1_NC7_Raw	GC Dataset 7 Raw NC7
11315	pg_GC.GC_1.GC_7.S1_NC8_Raw	GC Dataset 7 Raw NC8
11316	pg_GC.GC_1.GC_7.S1_NC9_Raw	GC Dataset 7 Raw NC9
11317	pg_GC.GC_1.GC_7.S1_NeoC5_Raw	GC Dataset 7 Raw NeoC5
11318	pg_GC.GC_1.GC_7.S1_SG_Raw	GC Dataset 7 Raw Specific Gravity
11319	pg_GC.GC_1.GC_7.S1_Wobbe_Raw	GC Dataset 7 Raw Wobbe Index
11320	pg_GC.GC_1.GC_8.S1_BTU_Raw	GC Dataset 8 Raw BTU
11321	pg_GC.GC_1.GC_8.S1_BTUSat_Raw	GC Dataset 8 Raw Saturated BTU
11322	pg_GC.GC_1.GC_8.S1_C2_Raw	GC Dataset 8 Raw C2
11323	pg_GC.GC_1.GC_8.S1_C3_Raw	GC Dataset 8 Raw C3
11324	pg_GC.GC_1.GC_8.S1_C6plus_Raw	GC Dataset 8 Raw C6 Plus
11325	pg_GC.GC_1.GC_8.S1_C9Plus_Raw	GC Dataset 8 Raw C9 Plus
11326	pg_GC.GC_1.GC_8.S1_CH4_Raw	GC Dataset 8 Raw CH4
11327	pg GC.GC 1.GC 8.S1 CHDP Raw	GC Dataset 8 Raw CHDP
11328	pg_GC.GC_1.GC_8.S1_CO_Raw	GC Dataset 8 Raw CO

Reg#	Variable	Description
11329	pg GC.GC 1.GC 8.S1 CO2 Raw	GC Dataset 8 Raw CO2
11330	pg GC.GC 1.GC 8.S1 IC4 Raw	GC Dataset 8 Raw IC4
11331	pg GC.GC 1.GC 8.S1 IC5 Raw	GC Dataset 8 Raw IC5
11332	pg GC.GC 1.GC 8.S1 N2 Raw	GC Dataset 8 Raw N2
11333	pg GC.GC 1.GC 8.S1 NC10 Raw	GC Dataset 8 Raw NC10
11334	pg GC.GC 1.GC 8.S1 NC4 Raw	GC Dataset 8 Raw NC4
11335	pg GC.GC 1.GC 8.S1 NC5 Raw	GC Dataset 8 Raw NC5
11336	pg GC.GC 1.GC 8.S1 NC6 Raw	GC Dataset 8 Raw NC6
11337	pg_GC.GC_1.GC_8.S1_NC7_Raw	GC Dataset 8 Raw NC7
11338	pg GC.GC 1.GC 8.S1 NC8 Raw	GC Dataset 8 Raw NC8
11339	pg_GC.GC_1.GC_8.S1_NC9_Raw	GC Dataset 8 Raw NC9
11340	pg_GC.GC_1.GC_8.S1_NeoC5_Raw	GC Dataset 8 Raw NeoC5
11341	pg_GC.GC_1.GC_8.S1_SG_Raw	GC Dataset 8 Raw Specific Gravity
11342	pg_GC.GC_1.GC_8.S1_Wobbe_Raw	GC Dataset 8 Raw Wobbe Index
11343	MB.SPARE	CO Dataset o Naw Wobbe Index
11344	MB.SPARE	
11345	MB.SPARE	
11346	MB.SPARE	
11347	MB.SPARE	
11348	MB.SPARE	
11349	MB.SPARE	
11350	MB.SPARE	
11351	MB.SPARE	
11352	MB.SPARE	
11353	MB.SPARE	
11354	MB.SPARE	
11355	MB.SPARE	
11356	MB.SPARE	
11357	MB.SPARE	
11358	MB.SPARE	
11359	MB.SPARE	
11360	MB.SPARE	
11361	MB.SPARE	
11362	MB.SPARE	
11363	MB.SPARE	
11364	MB.SPARE	
11365	MB.SPARE	
11366	MB.SPARE	
11367	MB.SPARE	
11368	MB.SPARE	
11369	MB.SPARE	
11370	MB.SPARE	
11371	MB.SPARE	
11372	MB.SPARE	
11373	MB.SPARE	
11374	MB.SPARE	
11375	MB.SPARE	
11376	MB.SPARE	
11377	MB.SPARE	
11378	MB.SPARE	

Reg#	Variable	Description
11379	MB.SPARE	rea pro-
11380	MB.SPARE	
11381	MB.SPARE	
11382	MB.SPARE	
11383	MB.SPARE	
11384	MB.SPARE	
11385	MB.SPARE	
11386	MB.SPARE	
11387	MB.SPARE	
11388	MB.SPARE	
11389	MB.SPARE	
11390	MB.SPARE	
11391	MB.SPARE	
11391	MB.SPARE	
11393	MB.SPARE	
11394	MB.SPARE	
11394	MB.SPARE	
11395	MB.SPARE	
11397	MB.SPARE	
11398	MB.SPARE	
11399	MB.SPARE	
11400	MB.SPARE	
11401	MB.SPARE	
11401	MB.SPARE	
11402	MB.SPARE	
11404	MB.SPARE	
11405	MB.SPARE	
11406	MB.SPARE	
11407	MB.SPARE	
11408	MB.SPARE	
11409	MB.SPARE	
11410	MB.SPARE	
11411	MB.SPARE	
11412	MB.SPARE	
11413	MB.SPARE	
11414	MB.SPARE	
11415	MB.SPARE	
11416	MB.SPARE	
11417	MB.SPARE	
11417	MB.SPARE	
11419	MB.SPARE	
11420	MB.SPARE	
11421	MB.SPARE	
11422	MB.SPARE	
11423	MB.SPARE	
11424	MB.SPARE	
11424	MB.SPARE	
11425	MB.SPARE	
11427	MB.SPARE	
11427	MB.SPARE	
11420	IND.OL VI/F	

Reg#	Variable	Description
11429	MB.SPARE	2000.1400.1
11430	MB.SPARE	
11431	MB.SPARE	
11432	MB.SPARE	
11433	MB.SPARE	
11434	MB.SPARE	
11434	MID.SPARE	Station Control - Station 1 Energy Control
11435	STC.CTL_PROFILE_1.R_ENERGY_SETPT	Remote Setpoint - Process Variable Span
		Station Control - Station 1 Flow Control Remote
11436	STC.CTL_PROFILE_1.R_FLOW_SETPT	Setpoint - Process Variable Span
		Station Control - Station 1 Outlet Pressure Control Remote Setpoint - Process Variable
11437	STC.CTL PROFILE 1.R PRESSURE SETPT	Span
		Station Control - Station 2 Energy Control
11438	STC.CTL_PROFILE_2.R_ENERGY_SETPT	Remote Setpoint - Process Variable Span
11439	STC.CTL PROFILE 2.R FLOW SETPT	Station Control - Station 2 Flow Control Remote Setpoint - Process Variable Span
11433	STO.OTE_TROTTLE_Z.R_TEOW_SETT T	Station Control - Station 2 Outlet Pressure
		Control Remote Setpoint - Process Variable
11440	STC.CTL_PROFILE_2.R_PRESSURE_SETPT	Span
11441	STC.CTL PROFILE 3.R ENERGY SETPT	Station Control - Station 3 Energy Control Remote Setpoint - Process Variable Span
11441	31C.CTL_PROFILE_3.R_ENERGT_SETFT	Station Control - Station 3 Flow Control Remote
11442	STC.CTL PROFILE 3.R FLOW SETPT	Setpoint - Process Variable Span
		Station Control - Station 3 Outlet Pressure
44440	OTO OTI DECENE A D. DEFONIDE OFTET	Control Remote Setpoint - Process Variable
11443	STC.CTL_PROFILE_3.R_PRESSURE_SETPT	Span Station Control - Station 4 Energy Control
11444	STC.CTL_PROFILE_4.R_ENERGY_SETPT	Remote Setpoint - Process Variable Span
		Station Control - Station 4 Flow Control Remote
11445	STC.CTL_PROFILE_4.R_FLOW_SETPT	Setpoint - Process Variable Span
		Station Control - Station 4 Outlet Pressure Control Remote Setpoint - Process Variable
11446	STC.CTL PROFILE 4.R PRESSURE SETPT	Span
		Station Control - Station 5 Energy Control
11447	STC.CTL_PROFILE_5.R_ENERGY_SETPT	Remote Setpoint - Process Variable Span
11448	STC.CTL PROFILE 5.R FLOW SETPT	Station Control - Station 5 Flow Control Remote Setpoint - Process Variable Span
11440	STO.OTE_TROTTEE_S.R_TEOW_SETT T	Station Control - Station 5 Outlet Pressure
		Control Remote Setpoint - Process Variable
11449	STC.CTL_PROFILE_5.R_PRESSURE_SETPT	Span
11450	STC.CTL_PROFILE_6.R_ENERGY_SETPT	Station Control - Station 6 Energy Control Remote Setpoint - Process Variable Span
11430	OTO.OTE_INOTILE_U.IV_LINEIVOT_GETET	Station Control - Station 6 Flow Control Remote
11451	STC.CTL_PROFILE_6.R_FLOW_SETPT	Setpoint - Process Variable Span
		Station Control - Station 6 Outlet Pressure
11452	STC.CTL_PROFILE_6.R_PRESSURE_SETPT	Control Remote Setpoint - Process Variable Span
		*** RESERVED FOR FUTURE USE ***
11453	MB.SPARE	*** RESERVED FOR FUTURE USE ***
11454	MB.SPARE	*** RESERVED FOR FUTURE USE ***
11455	MB.SPARE	
11456	MB.SPARE	*** RESERVED FOR FUTURE USE ***
11457	MB.SPARE	*** RESERVED FOR FUTURE USE ***
11458	MB.SPARE	*** RESERVED FOR FUTURE USE ***
11459	MVT.MVT_1_SerialNum	MVT 1 Serial number
11460	MVT.MVT_1_XCode	MVT 1 Diagnostic Code for the transmitter
11461	MVT.MVT_1_DPCode	MVT 1 Diagnostic Code for Differential Pressure
11462	MVT.MVT_1_SPCode	MVT 1 Diagnostic Code for Static Pressure

Reg#	Variable	Description
11463	MVT.MVT 1 FTCode	MVT 1 Diagnostic Code for Flowing Temperature
11464	MVT.MVT 2 SerialNum	MVT 2 Serial number
11465	MVT.MVT 2 XCode	MVT 2 Diagnostic Code for the transmitter
11466	MVT.MVT 2 DPCode	MVT 2 Diagnostic Code for Differential Pressure
11467	MVT.MVT 2 SPCode	MVT 2 Diagnostic Code for Static Pressure
11468	MVT.MVT 2 FTCode	MVT 2 Diagnostic Code for Flowing Temperature
11469	MVT.MVT 3 SerialNum	MVT 3 Serial number
11470	MVT.MVT 3 XCode	MVT 3 Diagnostic Code for the transmitter
11471	MVT.MVT 3 DPCode	MVT 3 Diagnostic Code for Differential Pressure
11472	MVT.MVT 3 SPCode	MVT 3 Diagnostic Code for Static Pressure
11473	MVT.MVT 3 FTCode	MVT 3 Diagnostic Code for Flowing Temperature
11474	MVT.MVT_4_SerialNum	MVT 4 Serial number
11475	MVT.MVT 4 XCode	MVT 4 Diagnostic Code for the transmitter
11476	MVT.MVT_4_DPCode	MVT 4 Diagnostic Code for Differential Pressure
11477	MVT.MVT_4_SPCode	MVT 4 Diagnostic Code for Static Pressure
11478	MVT.MVT_4_FTCode	MVT 4 Diagnostic Code for Flowing Temperature
11479	MVT.MVT_5_SerialNum	MVT 5 Serial number
11480	MVT.MVT_5_XCode	MVT 5 Diagnostic Code for the transmitter
11481	MVT.MVT_5_DPCode	MVT 5 Diagnostic Code for Differential Pressure
11482	MVT.MVT_5_SPCode	MVT 5 Diagnostic Code for Static Pressure
11483	MVT.MVT_5_FTCode	MVT 5 Diagnostic Code for Flowing Temperature
11484	MVT.MVT_6_SerialNum	MVT 6 Serial number
11485	MVT.MVT_6_XCode	MVT 6 Diagnostic Code for the transmitter
11486	MVT.MVT_6_DPCode	MVT 6 Diagnostic Code for Differential Pressure
11487	MVT.MVT_6_SPCode	MVT 6 Diagnostic Code for Static Pressure
11488	MVT.MVT_6_FTCode	MVT 6 Diagnostic Code for Flowing Temperature
11489	MVT.MVT_7_SerialNum	MVT 7 Serial number
11490	MVT.MVT_7_XCode	MVT 7 Diagnostic Code for the transmitter
11491	MVT.MVT_7_DPCode	MVT 7 Diagnostic Code for Differential Pressure
11492	MVT.MVT_7_SPCode	MVT 7 Diagnostic Code for Static Pressure
11493	MVT.MVT_7_FTCode	MVT 7 Diagnostic Code for Flowing Temperature
11494	MVT.MVT_8_SerialNum	MVT 8 Serial number
11495	MVT.MVT_8_XCode	MVT 8 Diagnostic Code for the transmitter
11496	MVT.MVT_8_DPCode	MVT 8 Diagnostic Code for Differential Pressure
11497	MVT.MVT_8_SPCode	MVT 8 Diagnostic Code for Static Pressure
11498	MVT.MVT_8_FTCode	MVT 8 Diagnostic Code for Flowing Temperature
11499	MVT.MVT_9_SerialNum	MVT 9 Serial number
11500	MVT.MVT_9_XCode	MVT 9 Diagnostic Code for the transmitter
11501	MVT.MVT_9_DPCode	MVT 9 Diagnostic Code for Differential Pressure
11502	MVT.MVT_9_SPCode	MVT 9 Diagnostic Code for Static Pressure
11503	MVT.MVT_9_FTCode	MVT 9 Diagnostic Code for Flowing Temperature
11504	MVT.MVT_10_SerialNum	MVT 10 Serial number
11505	MVT.MVT_10_XCode	MVT 10 Diagnostic Code for the transmitter
11506	MVT.MVT_10_DPCode	MVT 10 Diagnostic Code for Differential Pressure
11507	MVT.MVT_10_SPCode	MVT 10 Diagnostic Code for Static Pressure
11508	MVT.MVT 10 FTCode	MVT 10 Diagnostic Code for Flowing Temperature
11509	MVT.MVT 11 SerialNum	MVT 11 Serial number
11510	MVT.MVT 11 XCode	MVT 11 Diagnostic Code for the transmitter
11511	MVT.MVT 11 DPCode	MVT 11 Diagnostic Code for Differential Pressure
		Diag

Reg#	Variable	Description
11512	MVT.MVT 11 SPCode	MVT 11 Diagnostic Code for Static Pressure
		MVT 11 Diagnostic Code for Flowing
11513	MVT.MVT_11_FTCode	Temperature
11514	MVT.MVT_12_SerialNum	MVT 12 Serial number
11515	MVT.MVT_12_XCode	MVT 12 Diagnostic Code for the transmitter
11516	MVT.MVT_12_DPCode	MVT 12 Diagnostic Code for Differential Pressure
11517	MVT.MVT_12_SPCode	MVT 12 Diagnostic Code for Static Pressure
11510	NAVIT NAVIT 40 FTCodo	MVT 12 Diagnostic Code for Flowing
11518	MVT.MVT_12_FTCode	Temperature
11519	MB.RTUDate	RTU Date - MMDDYY.0
11520	MB.RTUTime	RTU Time - HHMMSS.0
11521	CV.CTL_VLV_1.VLV_DMND	Station Control - Control Valve 1 Valve Demand
11522	CV.CTL_VLV_2.VLV_DMND	Station Control - Control Valve 2 Valve Demand
11523	CV.CTL_VLV_3.VLV_DMND	Station Control - Control Valve 3 Valve Demand
11524	CV.CTL_VLV_4.VLV_DMND	Station Control - Control Valve 4 Valve Demand
11525	CV.CTL_VLV_5.VLV_DMND	Station Control - Control Valve 5 Valve Demand
11526	CV.CTL_VLV_6.VLV_DMND	Station Control - Control Valve 6 Valve Demand
11527	CV.CTL_VLV_7.VLV_DMND	Station Control - Control Valve 7 Valve Demand
11528	CV.CTL_VLV_8.VLV_DMND	Station Control - Control Valve 8 Valve Demand
11529	CV.CTL_VLV_9.VLV_DMND	Station Control - Control Valve 9 Valve Demand
11530	CV.CTL_VLV_10.VLV_DMND	Station Control - Control Valve 10 Valve Demand
11531	CV.CTL_VLV_11.VLV_DMND	Station Control - Control Valve 11 Valve Demand
11532	CV.CTL_VLV_12.VLV_DMND	Station Control - Control Valve 12 Valve Demand
11533	CV.CTL_VLV_13.VLV_DMND	Station Control - Control Valve 13 Valve Demand
11534	CV.CTL_VLV_14.VLV_DMND	Station Control - Control Valve 14 Valve Demand
11535	CV.CTL VLV 15.VLV DMND	Station Control - Control Valve 15 Valve Demand
11536	CV.CTL VLV 16.VLV DMND	Station Control - Control Valve 16 Valve Demand
11537	CV.CTL VLV 17.VLV DMND	Station Control - Control Valve 17 Valve Demand
11538	CV.CTL VLV 18.VLV DMND	Station Control - Control Valve 18 Valve Demand
		Local Remote Settings - Station Controls - Switch
11539	LR.ST1_SwNum	number Station 1 assigned to
11540	LR.ST2 SwNum	Local Remote Settings - Station Controls - Switch number Station 2 assigned to
11340	LR.512_SWNulli	Local Remote Settings - Station Controls - Switch
11541	LR.ST3_SwNum	number Station 3 assigned to
		Local Remote Settings - Station Controls - Switch
11542	LR.ST4_SwNum	number Station 4 assigned to
11543	LR.ST5_SwNum	Local Remote Settings - Station Controls - Switch number Station 5 assigned to
11040	ER.OTO_OWNUM	Local Remote Settings - Station Controls - Switch
11544	LR.ST6_SwNum	number Station 6 assigned to
		Local Remote Settings - Remote Control Valves -
11545	LD DCV4 Suddum	Switch number Remote Control Valve 1 assigned
11343	LR.RCV1_SwNum	to Local Remote Settings - Remote Control Valves -
		Switch number Remote Control Valve 2 assigned
11546	LR.RCV2_SwNum	to
		Local Remote Settings - Remote Control Valves -
11547	LR.RCV3 SwNum	Switch number Remote Control Valve 3 assigned to
. 1047	OMIGNI	Local Remote Settings - Remote Control Valves -
		Switch number Remote Control Valve 4 assigned
11548	LR.RCV4_SwNum	to
		Local Remote Settings - Remote Control Valves - Switch number Remote Control Valve 5 assigned
11549	LR.RCV5 SwNum	to
		1 **

Reg#	Variable	Description
		Local Remote Settings - Remote Control Valves -
		Switch number Remote Control Valve 6 assigned
11550	LR.RCV6_SwNum	to
		Local Remote Settings - Remote Control Valves - Switch number Remote Control Valve 7 assigned
11551	LR.RCV7 SwNum	to
		Local Remote Settings - Remote Control Valves -
		Switch number Remote Control Valve 8 assigned
11552	LR.RCV8_SwNum	to
		Local Remote Settings - Remote Control Valves - Switch number Remote Control Valve 9 assigned
11553	LR.RCV9 SwNum	to
		Local Remote Settings - Remote Control Valves -
		Switch number Remote Control Valve 10
11554	LR.RCV10_SwNum	assigned to
		Local Remote Settings - Remote Control Valves - Switch number Remote Control Valve 11
11555	LR.RCV11 SwNum	assigned to
		Local Remote Settings - Remote Control Valves -
		Switch number Remote Control Valve 12
11556	LR.RCV12_SwNum	assigned to
11557	LR.GPPID1 SwNum	Local Remote Settings - General Purpose PID - Switch number PID Loop 1
11001	EN.GITIDI_SWNulli	Local Remote Settings - General Purpose PID -
11558	LR.GPPID2_SwNum	Switch number PID Loop 2
		Local Remote Settings - General Purpose PID -
11559	LR.GPPID3_SwNum	Switch number PID Loop 3
11560	MB.AI 1	MODBUS AI - Analog value 1 that is brought into the program via MODBUS, not via physical I/O
11300	MD.AI_I	MODBUS AI - Analog value 2 that is brought into
11561	MB.AI_2	the program via MODBUS, not via physical I/O
	_	MODBUS AI - Analog value 3 that is brought into
11562	MB.AI_3	the program via MODBUS, not via physical I/O
11563	MB.AI 4	MODBUS AI - Analog value 4 that is brought into the program via MODBUS, not via physical I/O
11303	MD.AI_4	MODBUS AI - Analog value 5 that is brought into
11564	MB.AI_5	the program via MODBUS, not via physical I/O
		MODBUS AI - Analog value 6 that is brought into
11565	MB.AI_6	the program via MODBUS, not via physical I/O
11566	MB.AI_7	MODBUS AI - Analog value 7 that is brought into the program via MODBUS, not via physical I/O
11000	- MD3 11_1	MODBUS AI - Analog value 8 that is brought into
11567	MB.AI_8	the program via MODBUS, not via physical I/O
4		MODBUS AI - Analog value 9 that is brought into
11568	MB.AI_9	the program via MODBUS, not via physical I/O
		MODBUS AI - Analog value 10 that is brought into the program via MODBUS, not via physical
11569	MB.AI 10	I/O
	_	MODBUS AI - Analog value 11 that is brought
4	ND 44 44	into the program via MODBUS, not via physical
11570	MB.AI_11	I/O MODBUS AI - Analog value 12 that is brought
		into the program via MODBUS, not via physical
11571	MB.AI 12	I/O
	_	MODBUS AI - Analog value 13 that is brought
445==	MD AL 40	into the program via MODBUS, not via physical
11572	MB.AI_13	I/O MODBLIS AL. Analog value 14 that is brought
		MODBUS AI - Analog value 14 that is brought into the program via MODBUS, not via physical
11573	MB.AI_14	I/O
		MODBUS AI - Analog value 15 that is brought
11574	MB.AI_15	into the program via MODBUS, not via physical

Reg#	Variable	Description
		1/0
		MODBUS AI - Analog value 16 that is brought
		into the program via MODBUS, not via physical
11575	MB.AI_16	1/0
11576	@GV.BA 155 STATUS	RTU - Battery Status - converted to @GV. BAT OK
11577	@GV.BA_155_READING	RTU - DC Input
11311	WGV.BA_133_READING	Tube Switching - settle time between actions
11578	TS.TC_1.ST1_SettleTime	before next evaluation occurs
		Tube Switching - Action to occur if flow failure
11579	TS.TC_1.TSO_1.FLOW_FAIL_ACTION	detected on Tube Ranked 1 Tube Switching - Action to occur if flow failure
11580	TS.TC_1.TSO_2.FLOW_FAIL_ACTION	detected on Tube Ranked 2
		Tube Switching - Action to occur if flow failure
11581	TS.TC_1.TSO_3.FLOW_FAIL_ACTION	detected on Tube Ranked 3
14500	TO TO 4 TOO 4 FLOWN FAIL ACTION	Tube Switching - Action to occur if flow failure
11582	TS.TC_1.TSO_4.FLOW_FAIL_ACTION	detected on Tube Ranked 4 Tube Switching - Action to occur if flow failure
11583	TS.TC_1.TSO_5.FLOW_FAIL_ACTION	detected on Tube Ranked 5
		Tube Switching - Action to occur if flow failure
11584	TS.TC_1.TSO_6.FLOW_FAIL_ACTION	detected on Tube Ranked 6
11585	TS.TC_1.TSO_7.FLOW_FAIL_ACTION	Tube Switching - Action to occur if flow failure detected on Tube Ranked 7
11303	13.16_1.130_7.1 LOW_TAIL_ACTION	Tube Switching - Action to occur if flow failure
11586	TS.TC_1.TSO_8.FLOW_FAIL_ACTION	detected on Tube Ranked 8
11587	MB.SPARE	
11588	MB.SPARE	
11589	MB.SPARE	
11590	MB.SPARE	
		Station Control - Station 1 Primary 3 Control
11591	STC.CTL_PROFILE_1.L_PMRY3_SETPT	Local Setpoint - Process Variable Span Station Control - Station 1 Primary 3 Control
11592	STC.CTL_PROFILE_1.R_PMRY3_SETPT	Remote Setpoint - Process Variable Span
		Station Control - Station 2 Primary 3 Control
11593	STC.CTL_PROFILE_2.L_PMRY3_SETPT	Local Setpoint - Process Variable Span
11504	CTC CTL DDOCUE 2 D DMDV2 CCTDT	Station Control - Station 2 Primary 3 Control
11594	STC.CTL_PROFILE_2.R_PMRY3_SETPT	Remote Setpoint - Process Variable Span Station Control - Station 3 Primary 3 Control
11595	STC.CTL_PROFILE_3.L_PMRY3_SETPT	Local Setpoint - Process Variable Span
		Station Control - Station 3 Primary 3 Control
11596	STC.CTL_PROFILE_3.R_PMRY3_SETPT	Remote Setpoint - Process Variable Span
11597	STC.CTL PROFILE 4.L PMRY3 SETPT	Station Control - Station 4 Primary 3 Control Local Setpoint - Process Variable Span
		Station Control - Station 4 Primary 3 Control
11598	STC.CTL_PROFILE_4.R_PMRY3_SETPT	Remote Setpoint - Process Variable Span
11599	STC.CTL PROFILE 5.L PMRY3 SETPT	Station Control - Station 5 Primary 3 Control Local Setpoint - Process Variable Span
11099	OTO.OTL_FNOTILE_U.L_FWINTO_SETPT	Station Control - Station 5 Primary 3 Control
11600	STC.CTL_PROFILE_5.R_PMRY3_SETPT	Remote Setpoint - Process Variable Span
		Station Control - Station 6 Primary 3 Control
11601	STC.CTL_PROFILE_6.L_PMRY3_SETPT	Local Setpoint - Process Variable Span
11602	STC.CTL_PROFILE_6.R_PMRY3_SETPT	Station Control - Station 6 Primary 3 Control Remote Setpoint - Process Variable Span
11603	MB.SPARE	*** RESERVED FOR FUTURE USE ***
11604	MB.SPARE	*** RESERVED FOR FUTURE USE ***
11605	MB.SPARE	*** RESERVED FOR FUTURE USE ***
11605	MB.SPARE	*** RESERVED FOR FUTURE USE ***
11607	FC.FC1.RX GCSTREAM	Run 1 - GC Dataset assigned to this run
	_	Run 2 - GC Dataset assigned to this run Run 2 - GC Dataset assigned to this run
11608	FC.FC2.RX_GCSTREAM	Nun Z - GC Dataset assigned to this run

Reg#	Variable	Description
11609	FC.FC3.RX GCSTREAM	Run 3 - GC Dataset assigned to this run
11610	FC.FC4.RX GCSTREAM	Run 4 - GC Dataset assigned to this run
11611	FC.FC5.RX GCSTREAM	Run 5 - GC Dataset assigned to this run
11612	FC.FC6.RX GCSTREAM	Run 6 - GC Dataset assigned to this run
11613	FC.FC7.RX GCSTREAM	Run 7 - GC Dataset assigned to this run
11614	FC.FC8.RX GCSTREAM	Run 8 - GC Dataset assigned to this run
11615	PG GC.GC 1.GC 1.odiGCStatus	GC Dataset 1 general status
11616	PG GC.GC 1.GC 2.odiGCStatus	GC Dataset 1 general status
11617	PG GC.GC 1.GC 3.odiGCStatus	GC Dataset 3 general status
11618	PG GC.GC 1.GC 4.odiGCStatus	GC Dataset 3 general status
11619		
	PG_GC.GC_1.GC_5.odiGCStatus	GC Dataset 6 general status
11620	PG_GC.GC_1.GC_6.odiGCStatus	GC Dataset 6 general status
11621	PG_GC.GC_1.GC_7.odiGCStatus	GC Dataset 7 general status
11622	PG_GC.GC_1.GC_8.odiGCStatus	GC Dataset 8 general status
11623	MB.SPARE	
11624	MB.SPARE	
11625	MB.SPARE	
11626	MB.SPARE	
11627	PG_GC.GC_1.GC_1.odiStatus	GC Dataset 1 Comm status
11628	PG_GC.GC_1.GC_2.odiStatus	GC Dataset 2 Comm status
11629	PG_GC.GC_1.GC_3.odiStatus	GC Dataset n Comm status
11630	PG_GC.GC_1.GC_4.odiStatus	GC Dataset 4 Comm status
11631	PG_GC.GC_1.GC_5.odiStatus	GC Dataset 5 Comm status
11632	PG_GC.GC_1.GC_6.odiStatus	GC Dataset 6 Comm status
11633	PG_GC.GC_1.GC_7.odiStatus	GC Dataset 7 Comm status
11634	PG_GC.GC_1.GC_8.odiStatus	GC Dataset 8 Comm status
11635	MB.SPARE	
11636	MB.SPARE	
11637	MB.SPARE	
11638	MB.SPARE	
11000	CTC CH Circus Mars 4 FCD Daint	Station Control - Station 1 Process Monitor
11639	STC.Ctl_SignalMap_1.ESD_Point	Control point assiged to ESD Station Control - Station 2 Process Monitor
11640	STC.Ctl_SignalMap_2.ESD_Point	Control point assiged to ESD
		Station Control - Station 3 Process Monitor
11641	STC.Ctl_SignalMap_3.ESD_Point	Control point assiged to ESD
11642	STC.Ctl_SignalMap_4.ESD_Point	Station Control - Station 4 Process Monitor Control point assiged to ESD
11042	OTO.Ott_Olgraniviap_4.EOD_1 oint	Station Control - Station 5 Process Monitor
11643	STC.Ctl_SignalMap_5.ESD_Point	Control point assiged to ESD
4	OTO 011 01 111 0 700 7 11	Station Control - Station 6 Process Monitor
11644	STC.Ctl_SignalMap_6.ESD_Point	Control point assiged to ESD Process Monitor and Control - Al Point to be
11645	PMC.Monitor_Al_Point1	monitored from PMC 1
11010	THOMOTHOL TO THE	Process Monitor and Control - Al Point to be
11646	PMC.Monitor_AI_Point2	monitored from PMC 2
44047	DMC Maritar Al Daints	Process Monitor and Control - Al Point to be
11647	PMC.Monitor_Al_Point3	monitored from PMC 3 Process Monitor and Control - Al Point to be
11648	PMC.Monitor Al Point4	monitored from PMC 4
		Process Monitor and Control - DI Point to be
11649	PMC.Monitor_DI_Point1	monitored from PMC 1
11650	PMC Manitar DI Paint?	Process Monitor and Control - DI Point to be
11650	PMC.Monitor_DI_Point2	monitored from PMC 2

Reg#	Variable	Description
Reg#	variable	Description
11651	PMC.Monitor DI Point3	monitored from PMC 3
11652	PMC.Monitor DI Point4	Process Monitor and Control - DI Point to be monitored from PMC 4
11653	PMC.Monitor List Point1	Process Monitor and Control - List 29 Point to be monitored from PMC 1
11654	PMC.Monitor List Point2	Process Monitor and Control - List 29 Point to be monitored from PMC 2
11655	PMC.Monitor List Point3	Process Monitor and Control - List 29 Point to be monitored from PMC 3
11000	T MO.MOTHOL_LIST_FORMS	Process Monitor and Control - List 29 Point to be
11656	PMC.Monitor_List_Point4	monitored from PMC 4 Process Monitor and Control - Deadband in
11657	PMC.PV_Monitor_1.DB_Secs	Seconds for Alarm processing on PMC 1
11658	PMC.PV Monitor 1.HiHI Lim	Process Monitor and Control - High High Alarm limit on PMC 1
11659	PMC.PV Monitor 1.ROC Up	Process Monitor and Control - Rate of Change
11059	PNIC.FV_MOTILOI_1.ROC_OP	Increasing Alarm limit on PMC 1 Process Monitor and Control - Rate of Change
11660	PMC.PV_Monitor_1.ROC_Dn	Decreasing Alarm limit on PMC 1
11661	PMC.PV Monitor 1.LoLo Lim	Process Monitor and Control - Low Low Alarm limit on PMC 1
11662	PMC.PV Monitor 1.Lo Lim	Process Monitor and Control - Low Alarm limit on PMC 1
		Process Monitor and Control - High Alarm limit
11663	PMC.PV_Monitor_1.HI_Lim	on PMC 1 Process Monitor and Control - Deadband in
11664	PMC.PV_Monitor_2.DB_Secs	Seconds for Alarm processing on PMC 2 Process Monitor and Control - High High Alarm
11665	PMC.PV_Monitor_2.HiHI_Lim	limit on PMC 2
11666	PMC.PV_Monitor_2.ROC_Up	Process Monitor and Control - Rate of Change Increasing Alarm limit on PMC 2
11667	PMC.PV Monitor 2.ROC Dn	Process Monitor and Control - Rate of Change Decreasing Alarm limit on PMC 2
11668	PMC.PV_Monitor_2.LoLo_Lim	Process Monitor and Control - Low Low Alarm limit on PMC 2
11669	PMC.PV_Monitor_2.Lo_Lim	Process Monitor and Control - Low Alarm limit on PMC 2
11670	PMC.PV_Monitor_2.HI_Lim	Process Monitor and Control - High Alarm limit on PMC 2
11671	PMC.PV Monitor 3.DB Secs	Process Monitor and Control - Deadband in Seconds for Alarm processing on PMC 3
11672	PMC.PV Monitor 3.HiHl Lim	Process Monitor and Control - High High Alarm limit on PMC 3
		Process Monitor and Control - Rate of Change
11673	PMC.PV_Monitor_3.ROC_Up	Increasing Alarm limit on PMC 3 Process Monitor and Control - Rate of Change
11674	PMC.PV_Monitor_3.ROC_Dn	Decreasing Alarm limit on PMC 3 Process Monitor and Control - Low Low Alarm
11675	PMC.PV_Monitor_3.LoLo_Lim	limit on PMC 3
11676	PMC.PV_Monitor_3.Lo_Lim	Process Monitor and Control - Low Alarm limit on PMC 3
11677	PMC.PV_Monitor_3.HI_Lim	Process Monitor and Control - High Alarm limit on PMC 3
11678	PMC.PV_Monitor_4.DB_Secs	Process Monitor and Control - Deadband in Seconds for Alarm processing on PMC 4
11679	PMC.PV_Monitor_4.HiHI_Lim	Process Monitor and Control - High High Alarm limit on PMC 4
11680	PMC.PV_Monitor_4.ROC_Up	Process Monitor and Control - Rate of Change Increasing Alarm limit on PMC 4
11681	PMC.PV_Monitor_4.ROC_Dn	Process Monitor and Control - Rate of Change Decreasing Alarm limit on PMC 4

Reg#	Variable	Description
11000		Process Monitor and Control - Low Low Alarm
11682	PMC.PV_Monitor_4.LoLo_Lim	limit on PMC 4 Process Monitor and Control - Low Alarm limit on
11683	PMC.PV Monitor 4.Lo Lim	PMC 4
11001	DMC DV Maritary 4111 Line	Process Monitor and Control - High Alarm limit
11684	PMC.PV_Monitor_4.HI_Lim	on PMC 4 Process Value Monitor - Al Point to be monitored
11685	PVM.Monitor_AI_Point1	from PVM 1
11686	PVM.Monitor_AI_Point2	Process Value Monitor - Al Point to be monitored from PVM 2
11687	PVM.Monitor Al Point3	Process Value Monitor - Al Point to be monitored from PVM 3
11688	PVM.Monitor AI Point4	Process Value Monitor - Al Point to be monitored from PVM 4
11000	FVW.WOTHOL_AL_FORM4	Process Value Monitor - DI Point to be monitored
11689	PVM.Monitor_DI_Point1	from PVM 1
11690	PVM.Monitor DI Point2	Process Value Monitor - DI Point to be monitored from PVM 2
		Process Value Monitor - DI Point to be monitored
11691	PVM.Monitor_DI_Point3	from PVM 3 Process Value Monitor - DI Point to be monitored
11692	PVM.Monitor_DI_Point4	from PVM 4
44000	DIMANA II LI LE III	Process Value Monitor - List 29 Point to be
11693	PVM.Monitor_List_Point1	monitored from PVM 1 Process Value Monitor - List 29 Point to be
11694	PVM.Monitor_List_Point2	monitored from PVM 2
11605	DVM Manitar List Daint?	Process Value Monitor - List 29 Point to be
11695	PVM.Monitor_List_Point3	monitored from PVM 3 Process Value Monitor - List 29 Point to be
11696	PVM.Monitor_List_Point4	monitored from PVM 4
11697	PVM.PV_Monitor_1.DB_Secs	Process Value Monitor - Deadband in Seconds for Alarm processing on PVM 1
11698	PVM.PV Monitor 1.HiHI Lim	Process Value Monitor - High High Alarm limit on PVM 1
11090	FVW.FV_WOULD_1.FIIIII_LIIII	Process Value Monitor - Rate of Change
11699	PVM.PV_Monitor_1.ROC_Up	Increasing Alarm limit on PVM 1
11700	PVM.PV_Monitor_1.ROC_Dn	Process Value Monitor - Rate of Change Decreasing Alarm limit on PVM 1
11701	PVM.PV Monitor 1.LoLo Lim	Process Value Monitor - Low Low Alarm limit on PVM 1
		Process Value Monitor - Low Alarm limit on PVM
11702	PVM.PV_Monitor_1.Lo_Lim	Process Value Monitor - High Alarm limit on PVM
11703	PVM.PV_Monitor_1.HI_Lim	1
11704	PVM.PV Monitor 2.DB Secs	Process Value Monitor - Deadband in Seconds for Alarm processing on PVM 2
		Process Value Monitor - High High Alarm limit on PVM 2
11705	PVM.PV_Monitor_2.HiHI_Lim	Process Value Monitor - Rate of Change
11706	PVM.PV_Monitor_2.ROC_Up	Increasing Alarm limit on PVM 2
11707	PVM.PV_Monitor_2.ROC_Dn	Process Value Monitor - Rate of Change Decreasing Alarm limit on PVM 2
44700		Process Value Monitor - Low Low Alarm limit on
11708	PVM.PV_Monitor_2.LoLo_Lim	PVM 2 Process Value Monitor - Low Alarm limit on PVM
11709	PVM.PV_Monitor_2.Lo_Lim	2 Process Value Monitor - High Alarm limit on PVM
11710	PVM.PV_Monitor_2.HI_Lim	2
11711	PVM.PV Monitor 3.DB Secs	Process Value Monitor - Deadband in Seconds for Alarm processing on PVM 3
		Process Value Monitor - High High Alarm limit on
11712	PVM.PV_Monitor_3.HiHI_Lim	PVM 3

Reg#	Variable	Description
i tog.	Tallania	Process Value Monitor - Rate of Change
11713	PVM.PV_Monitor_3.ROC_Up	Increasing Alarm limit on PVM 3
44744	DVM DV Maritar a DOO Do	Process Value Monitor - Rate of Change
11714	PVM.PV_Monitor_3.ROC_Dn	Decreasing Alarm limit on PVM 3 Process Value Monitor - Low Low Alarm limit on
11715	PVM.PV Monitor 3.LoLo Lim	PVM 3
		Process Value Monitor - Low Alarm limit on PVM
11716	PVM.PV_Monitor_3.Lo_Lim	3 Process Value Monitor - High Alarm limit on PVM
11717	PVM.PV_Monitor_3.HI_Lim	3
11718	PVM.PV Monitor 4.DB Secs	Process Value Monitor - Deadband in Seconds for Alarm processing on PVM 4
11719	PVM.PV Monitor 4.HiHI Lim	Process Value Monitor - High High Alarm limit on PVM 4
11710	T VIVI. V_MOTILOT_TITUT_EMIT	Process Value Monitor - Rate of Change
11720	PVM.PV Monitor_4.ROC_Up	Increasing Alarm limit on PVM 4
11721	PVM.PV Monitor 4.ROC Dn	Process Value Monitor - Rate of Change Decreasing Alarm limit on PVM 4
11/21	FVM.FV_MOTILOT_4.ROC_DIT	Process Value Monitor - Low Low Alarm limit on
11722	PVM.PV Monitor 4.LoLo Lim	PVM 4
11723	PVM.PV_Monitor_4.Lo_Lim	Process Value Monitor - Low Alarm limit on PVM 4
4	DIALDIAN III ALIII II	Process Value Monitor - High Alarm limit on PVM
11724	PVM.PV_Monitor_4.HI_Lim	4
11725	SMP.Sampler_Al_Point1	Sampler - Al Point to be used for Sampler 1
11726	SMP.Sampler_List_Point1	Sampler - List 29 Point to be used for Sampler 1
11727	SMP.Sampler_1_Mode	Sampler - Output Mode be used for Sampler 1 Sampler - Scale Factor to be used for Sampler 1
11728	SMP.Sampler_1_ScaleF	analog output
		Sampler - Pulse Factor (1 pulse per Engineering Unit of Input) to be used for Sampler 1 digital
11729	SMP.Sampler_1_PulseR	output
11730	SMP.Sampler_AI_Point2	Sampler - Al Point to be used for Sampler 2
11731	SMP.Sampler_List_Point2	Sampler - List 29 Point to be used for Sampler 2
11732	SMP.Sampler_2_Mode	Sampler - Output Mode be used for Sampler 2
44700	OMD Complex C. Coole	Sampler - Scale Factor to be used for Sampler 2
11733	SMP.Sampler_2_ScaleF	analog output Sampler - Pulse Factor (1 pulse per Engineering
		Unit of Input) to be used for Sampler 2 digital
11734	SMP.Sampler_2_PulseR	output
11735	SMP.Sampler_AI_Point3	Sampler - Al Point to be used for Sampler 3
11736	SMP.Sampler_List_Point3	Sampler - List 29 Point to be used for Sampler 3
11737	SMP.Sampler_3_Mode	Sampler - Output Mode be used for Sampler 3
11738	SMP.Sampler_3_ScaleF	Sampler - Scale Factor to be used for Sampler 3 analog output
	 	Sampler - Pulse Factor (1 pulse per Engineering
44700	OMB O L O D L D	Unit of Input) to be used for Sampler 3 digital
11739	SMP.Sampler_3_PulseR	output
11740	SMP.Sampler_Al_Point4	Sampler - Al Point to be used for Sampler 4
11741	SMP.Sampler_List_Point4	Sampler - List 29 Point to be used for Sampler 4
11742	SMP.Sampler_4_Mode	Sampler - Output Mode be used for Sampler 4 Sampler - Scale Factor to be used for Sampler 4
11743	SMP.Sampler_4_ScaleF	analog output
		Sampler - Pulse Factor (1 pulse per Engineering
11744	SMP.Sampler 4 PulseR	Unit of Input) to be used for Sampler 4 digital output
11744	SMP.Sampler Al Point5	Sampler - Al Point to be used for Sampler 5
11745	SMP.Sampler List Point5	Sampler - List 29 Point to be used for Sampler 5
11740	SMP.Sampler 5 Mode	Sampler - Cist 29 Point to be used for Sampler 5 Sampler - Output Mode be used for Sampler 5
11/4/	Own .Gampler_G_would	

Reg#	Variable	Description
1109		Sampler - Scale Factor to be used for Sampler 5
11748	SMP.Sampler_5_ScaleF	analog output
		Sampler - Pulse Factor (1 pulse per Engineering
11749	SMP.Sampler 5 PulseR	Unit of Input) to be used for Sampler 5 digital output
11750	SMP.Sampler Al Point6	Sampler - Al Point to be used for Sampler 6
11751	SMP.Sampler List Point6	Sampler - List 29 Point to be used for Sampler 6
11752	SMP.Sampler 6 Mode	Sampler - Output Mode be used for Sampler 6
11752	OWI .Campici_o_wode	Sampler - Scale Factor to be used for Sampler 6
11753	SMP.Sampler_6_ScaleF	analog output
		Sampler - Pulse Factor (1 pulse per Engineering
11754	SMP.Sampler_6_PulseR	Unit of Input) to be used for Sampler 6 digital output
11755	SMP.Sampler Al Point7	Sampler - Al Point to be used for Sampler 7
11756	SMP.Sampler List Point7	Sampler - List 29 Point to be used for Sampler 7
11757	SMP.Sampler 7 Mode	Sampler - Output Mode be used for Sampler 7
11707	OWN .Campici_/_wode	Sampler - Scale Factor to be used for Sampler 7
11758	SMP.Sampler_7_ScaleF	analog output
		Sampler - Pulse Factor (1 pulse per Engineering
11759	SMP.Sampler 7 PulseR	Unit of Input) to be used for Sampler 7 digital output
11760	SMP.Sampler_AI_Point8	Sampler - Al Point to be used for Sampler 8
11761	SMP.Sampler List Point8	Sampler - List 29 Point to be used for Sampler 8
11762	SMP.Sampler 8 Mode	Sampler - Output Mode be used for Sampler 8
		Sampler - Scale Factor to be used for Sampler 8
11763	SMP.Sampler_8_ScaleF	analog output
		Sampler - Pulse Factor (1 pulse per Engineering
11764	SMP.Sampler 8 PulseR	Unit of Input) to be used for Sampler 8 digital output
11765	SMP.Sampler Al Point9	Sampler - Al Point to be used for Sampler 9
11766	SMP.Sampler List Point9	Sampler - List 29 Point to be used for Sampler 9
11767	SMP.Sampler 9 Mode	Sampler - Output Mode be used for Sampler 9
		Sampler - Scale Factor to be used for Sampler 9
11768	SMP.Sampler_9_ScaleF	analog output
		Sampler - Pulse Factor (1 pulse per Engineering Unit of Input) to be used for Sampler 9 digital
11769	SMP.Sampler 9 PulseR	output
11770	SMP.Sampler AI Point10	Sampler - Al Point to be used for Sampler 10
11771	SMP.Sampler List Point10	Sampler - List 29 Point to be used for Sampler 10
11772	SMP.Sampler 10 Mode	Sampler - Output Mode be used for Sampler 10
4		Sampler - Scale Factor to be used for Sampler
11773	SMP.Sampler_10_ScaleF	10 analog output Sampler - Pulse Factor (1 pulse per Engineering
		Unit of Input) to be used for Sampler 10 digital
11774	SMP.Sampler_10_PulseR	output
11775	SMP.Sampler_AI_Point11	Sampler - Al Point to be used for Sampler 11
11776	SMP.Sampler_List_Point11	Sampler - List 29 Point to be used for Sampler 11
11777	SMP.Sampler_11_Mode	Sampler - Output Mode be used for Sampler 11
44===		Sampler - Scale Factor to be used for Sampler
11778	SMP.Sampler_11_ScaleF	11 analog output Sampler - Pulse Factor (1 pulse per Engineering
		Unit of Input) to be used for Sampler 11 digital
11779	SMP.Sampler_11_PulseR	output
11780	SMP.Sampler_Al_Point12	Sampler - Al Point to be used for Sampler 12
11781	SMP.Sampler_List_Point12	Sampler - List 29 Point to be used for Sampler 12
11782	SMP.Sampler_12_Mode	Sampler - Output Mode be used for Sampler 12
11783	SMP.Sampler_12_ScaleF	Sampler - Scale Factor to be used for Sampler

Reg#	Variable	Description
		12 analog output
11784	SMP.Sampler_12_PulseR	Sampler - Pulse Factor (1 pulse per Engineering Unit of Input) to be used for Sampler 12 digital output
11785	GPPID.PID1_ManSetpt	General Purpose PID - Manual Setpoint for GP PID Loop 1
11786	GPPID.PID1_PV_SEL	General Purpose PID - Process Variable selected for GP PID Loop 1
11787	GPPID.PID_Loop_1.PV_SPAN	General Purpose PID - Process Variable Span for GP PID Loop 1
11788	GPPID.PID_Loop_1.SP_RAMPRATE	General Purpose PID - Setpoint ramprate for GP PID Loop 1
11789	GPPID.PID_Loop_1.SETPT	General Purpose PID - Setpoint for GP PID Loop 1 General Purpose PID - Deadband for GP PID
11790	GPPID.PID_Loop_1.DB	Loop 1 General Purpose PID - Deadband for GP PID General Purpose PID - Integral for GP PID Loop
11791	GPPID.PID_Loop_1.INTGRL	1 General Purpose PID - Integral for GP PID Loop 1 General Purpose PID - Derivative for GP PID
11792	GPPID.PID_Loop_1.DERIV	Loop 1 General Purpose PID - Proportional Gain for GP
11793	GPPID.PID_Loop_1.GAIN	PID Loop 1 General Purpose PID - Manual Setpoint for GP
11794	GPPID.PID2_ManSetpt	PID Loop 2 General Purpose PID - Process Variable
11795	GPPID.PID2_PV_SEL	selected for GP PID Loop 2 General Purpose PID - Process Variable Span
11796	GPPID.PID_Loop_2.PV_SPAN	for GP PID Loop 2 General Purpose PID - Setpoint ramprate for GP
11797	GPPID.PID_Loop_2.SP_RAMPRATE	PID Loop 2 General Purpose PID - Setpoint for GP PID Loop
11798	GPPID.PID_Loop_2.SETPT	2 General Purpose PID - Deadband for GP PID
11799	GPPID.PID_Loop_2.DB	Loop 2 General Purpose PID - Integral for GP PID Loop
11800	GPPID.PID_Loop_2.INTGRL	General Purpose PID - Derivative for GP PID
11801 11802	GPPID.PID_Loop_2.DERIV GPPID.PID_Loop_2.GAIN	Loop 2 General Purpose PID - Proportional Gain for GP PID Loop 2
11803	GPPID.PID3 ManSetpt	General Purpose PID - Manual Setpoint for GP PID Loop 3
11804	GPPID.PID3_PV_SEL	General Purpose PID - Process Variable selected for GP PID Loop 3
11805	GPPID.PID_Loop_3.PV_SPAN	General Purpose PID - Process Variable Span for GP PID Loop 3
11806	GPPID.PID_Loop_3.SP_RAMPRATE	General Purpose PID - Setpoint ramprate for GP PID Loop 3
11807	GPPID.PID_Loop_3.SETPT	General Purpose PID - Setpoint for GP PID Loop 3
11808	GPPID.PID_Loop_3.DB	General Purpose PID - Deadband for GP PID Loop 3
11809	GPPID.PID_Loop_3.INTGRL	General Purpose PID - Integral for GP PID Loop 3
11810	GPPID.PID_Loop_3.DERIV	General Purpose PID - Derivative for GP PID Loop 3
11811	GPPID.PID_Loop_3.GAIN	General Purpose PID - Proportional Gain for GP PID Loop 3
11812	UFM.UFM_1_AvgFlowVel	Ultrasonic Meter 1 - Average Flow Velocity
11813	UFM.UFM_1_FlowVel1	Ultrasonic Meter 1 - Flow Velocity path 1
11814	UFM.UFM_1_FlowVel2	Ultrasonic Meter 1 - Flow Velocity path 2

Reg#	Variable	Description
11815	UFM.UFM 1 FlowVel3	Ultrasonic Meter 1 - Flow Velocity path 3
11816	UFM.UFM 1 FlowVel4	Ultrasonic Meter 1 - Flow Velocity path 4
11817	UFM.UFM 1 FlowVel5	Ultrasonic Meter 1 - Flow Velocity path 5
11818	UFM.UFM 2 AvgFlowVel	Ultrasonic Meter 2 - Average Flow Velocity
11819	UFM.UFM 2 FlowVel1	Ultrasonic Meter 2 - Flow Velocity path 1
11820	UFM.UFM_2_FlowVel2	Ultrasonic Meter 2 - Flow Velocity path 2
11821	UFM.UFM_2_FlowVel3	Ultrasonic Meter 2 - Flow Velocity path 3
11822	UFM.UFM 2 FlowVel4	Ultrasonic Meter 2 - Flow Velocity path 4
11823	UFM.UFM 2 FlowVel5	Ultrasonic Meter 2 - Flow Velocity path 5
11824	UFM.UFM_3_AvgFlowVel	Ultrasonic Meter 3 - Average Flow Velocity
11825	UFM.UFM 3 FlowVel1	Ultrasonic Meter 3 - Average 1 low velocity Ultrasonic Meter 3 - Flow Velocity path 1
11826	UFM.UFM 3 FlowVel2	Ultrasonic Meter 3 - Flow Velocity path 1
11827	UFM.UFM 3 FlowVel3	Ultrasonic Meter 3 - Flow Velocity path 3
11828	UFM.UFM 3 FlowVel4	Ultrasonic Meter 3 - Flow Velocity path 4
11829	UFM.UFM 3 FlowVel5	Ultrasonic Meter 3 - Flow Velocity path 5
11830	UFM.UFM 4 AvgFlowVel	•
11831	UFM.UFM_4_FlowVel1	Ultrasonic Meter 4 - Average Flow Velocity Ultrasonic Meter 4 - Flow Velocity path 1
11832	UFM.UFM 4 FlowVel2	Ultrasonic Meter 4 - Flow Velocity path 1
11833	UFM.UFM 4 FlowVel3	
i e	UFM.UFM 4 FlowVel4	Ultrasonic Meter 4 - Flow Velocity path 3
11834		Ultrasonic Meter 4 - Flow Velocity path 4
11835	UFM.UFM_4_FlowVel5	Ultrasonic Meter 4 - Flow Velocity path 5
11836	UFM.UFM_5_AvgFlowVel	Ultrasonic Meter 5 - Average Flow Velocity
11837	UFM.UFM_5_FlowVel1	Ultrasonic Meter 5 - Flow Velocity path 1
11838	UFM.UFM_5_FlowVel2	Ultrasonic Meter 5 - Flow Velocity path 2
11839	UFM.UFM_5_FlowVel3	Ultrasonic Meter 5 - Flow Velocity path 3
11840	UFM.UFM_5_FlowVel4	Ultrasonic Meter 5 - Flow Velocity path 4
11841	UFM.UFM_5_FlowVel5	Ultrasonic Meter 5 - Flow Velocity path 5
11842	UFM.UFM_6_AvgFlowVel	Ultrasonic Meter 6 - Average Flow Velocity
11843	UFM.UFM_6_FlowVel1	Ultrasonic Meter 6 - Flow Velocity path 1
11844	UFM.UFM_6_FlowVel2	Ultrasonic Meter 6 - Flow Velocity path 2
11845	UFM.UFM_6_FlowVel3	Ultrasonic Meter 6 - Flow Velocity path 3
11846	UFM.UFM_6_FlowVel4	Ultrasonic Meter 6 - Flow Velocity path 4
11847	UFM.UFM_6_FlowVel5	Ultrasonic Meter 6 - Flow Velocity path 5
11848	UFM.UFM_7_AvgFlowVel	Ultrasonic Meter 7 - Average Flow Velocity
11849	UFM.UFM_7_FlowVel1	Ultrasonic Meter 7 - Flow Velocity path 1
11850	UFM.UFM_7_FlowVel2	Ultrasonic Meter 7 - Flow Velocity path 2
11851	UFM.UFM_7_FlowVel3	Ultrasonic Meter 7 - Flow Velocity path 3
11852	UFM.UFM_7_FlowVel4	Ultrasonic Meter 7 - Flow Velocity path 4
11853	UFM.UFM_7_FlowVel5	Ultrasonic Meter 7 - Flow Velocity path 5
11854	UFM.UFM_8_AvgFlowVel	Ultrasonic Meter 8 - Average Flow Velocity
11855	UFM.UFM_8_FlowVel1	Ultrasonic Meter 8 - Flow Velocity path 1
11856	UFM.UFM_8_FlowVel2	Ultrasonic Meter 8 - Flow Velocity path 2
11857	UFM.UFM 8 FlowVel3	Ultrasonic Meter 8 - Flow Velocity path 3
11858	UFM.UFM_8_FlowVel4	Ultrasonic Meter 8 - Flow Velocity path 4
11859	UFM.UFM_8_FlowVel5	Ultrasonic Meter 8 - Flow Velocity path 5
11860	IO_1.HWAIs_1.HWAI_100	HWAI, Reserved
11861	IO_1.HWAIs_1.HWAI_101	HWAI, Shared DP 1
11862	IO_1.HWAIs_1.HWAI_102	HWAI, Shared DP 2
11863	IO_1.HWAIs_1.HWAI_103	HWAI, Shared DP 3
11864	IO_1.HWAIs_1.HWAI_104	HWAI, Shared DP 4

Reg#	Variable	Description
11865	IO 1.HWAIs 1.HWAI 105	HWAI, Shared DP 5
11866	IO_1.HWAIs_1.HWAI_106	HWAI, Shared DP 6
11867	IO 1.HWAIs 1.HWAI 107	HWAI, Shared SP 1
11868	IO 1.HWAIs 1.HWAI 108	HWAI, Shared SP 2
11869	IO 1.HWAIs 1.HWAI 109	HWAI, Shared SP 3
11870	IO_1.HWAIs_1.HWAI_110	HWAI, Shared SP 4
11871	IO_1.HWAIs_1.HWAI_111	HWAI, Shared SP 5
11872	IO 1.HWAIs 1.HWAI 112	HWAI, Shared SP 6
11873	IO 1.HWAIs 1.HWAI 113	HWAI, Shared FTemp 1
11874	IO 1.HWAIs 1.HWAI 114	HWAI, Shared FTemp 2
11875	IO_1.HWAIs_1.HWAI_115	HWAI, Shared FTemp 3
11876	IO_1.HWAIs_1.HWAI_116	HWAI, Shared FTemp 4
11877	IO 1.HWAIs 1.HWAI 117	HWAI, Shared FTemp 5
11878	IO 1.HWAIs 1.HWAI 118	HWAI, Shared FTemp 6
11879	IO_1.HWAIs_1.HWAI_119	HWAI, Reserved
11880	IO_1.HWAIs_1.HWAI_120	HWAI, Reserved
11881	IO 1.HWAIs 1.HWAI 121	HWAI, Stacked DP 1 Lo
11882	IO_1.HWAIs_1.HWAI_122	HWAI, Stacked DP 1 Hi
11883	IO 1.HWAIs 1.HWAI 123	HWAI, Stacked DP 2 Lo
11884	IO 1.HWAIs 1.HWAI 124	HWAI, Stacked DP 2 Hi
11885	IO_1.HWAIs_1.HWAI_125	HWAI, Stacked DP 3 Lo
11886	IO 1.HWAIs 1.HWAI 126	HWAI, Stacked DP 3 Hi
11887	IO_1.HWAIs_1.HWAI_127	HWAI, Stacked DP 4 Lo
11888	IO_1.HWAIs_1.HWAI_128	HWAI, Stacked DP 4 Hi
11889	IO_1.HWAIs_1.HWAI_129	HWAI, Stacked DP 5 Lo
11890	IO_1.HWAIs_1.HWAI_130	HWAI, Stacked DP 5 Hi
11891	IO 1.HWAIs 1.HWAI 131	HWAI, Stacked DP 6 Lo
11892	IO 1.HWAIs 1.HWAI 132	HWAI, Stacked DP 6 Hi
11893	IO 1.HWAIs 1.HWAI 133	HWAI, Stacked DP 7 Lo
11894	IO_1.HWAIs_1.HWAI_134	HWAI, Stacked DP 7 Hi
11895	IO 1.HWAIs 1.HWAI 135	HWAI, Stacked DP 8 Lo
11896	IO_1.HWAIs_1.HWAI_136	HWAI, Stacked DP 8 Hi
11897	IO_1.HWAIs_1.HWAI_137	HWAI, Stacked DP 9 Lo
11898	IO 1.HWAIs 1.HWAI 138	HWAI, Stacked DP 9 Hi
11899	IO_1.HWAIs_1.HWAI_139	HWAI, Stacked DP 10 Lo
11900	IO 1.HWAIs 1.HWAI 140	HWAI, Stacked DP 10 Hi
11901	IO_1.HWAIs_1.HWAI_141	HWAI, Stacked DP 11 Lo
11902	IO_1.HWAIs_1.HWAI_142	HWAI, Stacked DP 11 Hi
11903	IO_1.HWAIs_1.HWAI_143	HWAI, Stacked DP 12 Lo
11904	IO_1.HWAIs_1.HWAI_144	HWAI, Stacked DP 12 Hi
11905	IO_1.HWAIs_1.HWAI_145	HWAI, Stacked SP 1 Lo
11906	IO_1.HWAIs_1.HWAI_146	HWAI, Stacked SP 1 Hi
11907	IO_1.HWAIs_1.HWAI_147	HWAI, Stacked SP 2 Lo
11908	IO 1.HWAIs 1.HWAI 148	HWAI, Stacked SP 2 Hi
11909	IO_1.HWAIs_1.HWAI_149	HWAI, Stacked SP 3 Lo
11910	IO 1.HWAIs 1.HWAI 150	HWAI, Stacked SP 3 Hi
11911	IO_1.HWAIs_1.HWAI_151	HWAI, Stacked SP 4 Lo
11912	IO_1.HWAIs_1.HWAI_152	HWAI, Stacked SP 4 Hi
11913	IO_1.HWAIs_1.HWAI_153	HWAI, Stacked SP 5 Lo
11914	IO_1.HWAIs_1.HWAI_154	HWAI, Stacked SP 5 Hi
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Reg#	Variable	Description
11915	IO 1.HWAIs 1.HWAI 155	HWAI, Stacked SP 6 Lo
11916	IO_1.HWAIs_1.HWAI_156	HWAI, Stacked SP 6 Hi
11917	IO 1.HWAIs 1.HWAI 157	HWAI, Stacked SP 7 Lo
11918	IO 1.HWAIs 1.HWAI 158	HWAI, Stacked SP 7 Hi
11919	IO_1.HWAIs_1.HWAI_159	HWAI, Stacked SP 8 Lo
11920	IO_1.HWAIs_1.HWAI_160	HWAI, Stacked SP 8 Hi
11921	IO_1.HWAIs_1.HWAI_161	HWAI, Stacked SP 9 Lo
11922	IO_1.HWAIs_1.HWAI_162	HWAI, Stacked SP 9 Hi
11923	IO 1.HWAIs 1.HWAI 163	HWAI, Stacked SP 10 Lo
11924	IO 1.HWAIs 1.HWAI 164	HWAI, Stacked SP 10 Hi
11925	IO_1.HWAIs_1.HWAI_165	HWAI, Stacked SP 11 Lo
11926	IO_1.HWAIs_1.HWAI_166	HWAI, Stacked SP 11 Hi
11927	IO 1.HWAIs 1.HWAI 167	HWAI, Stacked SP 12 Lo
11928	IO_1.HWAIs_1.HWAI_168	HWAI, Stacked SP 12 Hi
11929	IO_1.HWAIs_1.HWAI_169	HWAI, Stacked FTemp 1 Lo
11930	IO 1.HWAIs 1.HWAI 170	HWAI, Stacked FTemp 1 Hi
11931	IO_1.HWAIs_1.HWAI_171	HWAI, Stacked FTemp 2 Lo
11931	IO_1.HWAIs_1.HWAI_172	HWAI, Stacked FTemp 2 Hi
11933	IO_1.HWAIs_1.HWAI_173	HWAI, Stacked FTemp 3 Lo
11933	IO 1.HWAIs 1.HWAI 174	HWAI, Stacked FTemp 3 Hi
11935	IO_1.HWAIs_1.HWAI_175	HWAI, Stacked FTemp 4 Lo
11936	IO 1.HWAIs 1.HWAI 176	HWAI, Stacked FTemp 4 Hi
11937	IO_1.HWAIs_1.HWAI_177	HWAI, Stacked FTemp 5 Lo
11937	IO_1.HWAIs_1.HWAI_178	HWAI, Stacked FTemp 5 Hi
11939		HWAI, Stacked FTemp 6 Lo
11940	IO_1.HWAIs_1.HWAI_179 IO_1.HWAIs_1.HWAI_180	HWAI, Stacked Fremp 6 Hi
11941	IO 1.HWAIs 1.HWAI 181	HWAI, Stacked FTemp 7 Lo
11942	IO 1.HWAIs 1.HWAI 182	HWAI, Stacked FTemp 7 Hi
11942	IO_1.HWAIs_1.HWAI_183	HWAI, Stacked FTemp 8 Lo
11944	IO 1.HWAIs 1.HWAI 184	HWAI, Stacked FTemp 8 Hi
11945	IO_1.HWAIs_1.HWAI_185	HWAI, Stacked FTemp 9 Lo
11946	IO_1.HWAIs_1.HWAI_186	HWAI, Stacked FTemp 9 Hi
11947	IO 1.HWAIs 1.HWAI 187	HWAI, Stacked FTemp 9111
11948	IO 1.HWAIs 1.HWAI 188	HWAI, Stacked FTemp 10 Hi
11949	IO_1.HWAIs_1.HWAI_189	HWAI, Stacked FTemp 10 11 Lo
11950	IO_1.HWAIs_1.HWAI_190	HWAI, Stacked FTemp 11 Hi
11950	IO_1.HWAIs_1.HWAI_191	HWAI, Stacked FTemp 12 Lo
11951	IO_1.HWAIs_1.HWAI_192	HWAI, Stacked FTemp 12 Hi
11952	IO 1.HWAIs 1.HWAI 193	HWAI, Shared Inlet 1
11954	IO_1.HWAIs_1.HWAI_194	HWAI, Shared Inlet 2
11955	IO_1.HWAIs_1.HWAI_195	HWAI, Shared Inlet 2
11956	IO_1.HWAIs_1.HWAI_196	HWAI, Shared Outlet 1
11957	IO_1.HWAIs_1.HWAI_197	HWAI, Shared Outlet 2
11958	IO_1.HWAIs_1.HWAI_198	HWAI, Shared Outlet 2
11959	IO_1.HWAIs_1.HWAI_215	HWAI, S1 Spec Grav
11960	IO 1.HWAIs 1.HWAI 216	HWAI, S1 BTU
11961	IO_1.HWAIs_1.HWAI_217	HWAI, S1 N2
11961	IO_1.HWAIs_1.HWAI_218	HWAI, S1 N2
11963	IO_1.HWAIs_1.HWAI_219	HWAI, S2 Spec Grav
11963	IO_1.HWAIs_1.HWAI_220	HWAI, S2 BTU
11904	IO_1.11VVAIS_1.11VVAI_22U	וועארו, אב טוט

Reg#	Variable	Description
11965	IO 1.HWAIs 1.HWAI 221	HWAI, S2 N2
11966	IO 1.HWAIs 1.HWAI 222	HWAI, S2 CO2
11967	IO_1.HWAIs_1.HWAI_223	HWAI, S3 Spec Grav
11968	IO 1.HWAIs 1.HWAI 224	HWAI, S3 BTU
11969	IO_1.HWAIs_1.HWAI_225	HWAI, S3 N2
11970	IO 1.HWAIs 1.HWAI 226	HWAI, S3 CO2
11971	IO 1.HWAIs 1.HWAI 227	HWAI, S4 Spec Grav
11972	IO 1.HWAIs 1.HWAI 228	HWAI, S4 BTU
11973	IO 1.HWAIs 1.HWAI 229	HWAI, S4 N2
11974	IO 1.HWAIs 1.HWAI 230	HWAI, S4 CO2
11975	IO 1.HWAIs 1.HWAI 231	HWAI, S5 Spec Grav
11976	IO 1.HWAIs 1.HWAI 232	HWAI, S5 BTU
11977	IO_1.HWAIs_1.HWAI_233	HWAI, S5 N2
11978	IO 1.HWAIs 1.HWAI 234	HWAI, S5 CO2
11979	IO 1.HWAIs 1.HWAI 235	HWAI, S6 Spec Grav
11980	IO 1.HWAIs 1.HWAI 236	HWAI, S6 BTU
11981	IO 1.HWAIs 1.HWAI 237	HWAI, S6 N2
11982	IO_1.HWAIs_1.HWAI_238	HWAI, S6 CO2
11983	IO 1.HWAIs 1.HWAI 239	HWAI, S7 Spec Grav
11984	IO 1.HWAIs 1.HWAI 240	HWAI, S7 BTU
11985	IO 1.HWAIs 1.HWAI 241	HWAI, S7 N2
11986	IO 1.HWAIs 1.HWAI 242	HWAI, S7 CO2
11987	IO 1.HWAIs 1.HWAI 243	HWAI, S8 Spec Grav
11988	IO_1.HWAIs_1.HWAI_244	HWAI, S8 BTU
11989	IO 1.HWAIs 1.HWAI 245	HWAI, S8 N2
11990	IO_1.HWAIs_1.HWAI_246	HWAI, S8 CO2
11991	IO_1.HWAIs_1.HWAI_247	HWAI, S9 Spec Grav
11992	IO_1.HWAIs_1.HWAI_248	HWAI, S9 BTU
11993	IO_1.HWAIs_1.HWAI_249	HWAI, S9 N2
11994	IO_1.HWAIs_1.HWAI_250	HWAI, S9 CO2
11995	IO_1.HWAIs_1.HWAI_251	HWAI, S10 Spec Grav
11996	IO_1.HWAIs_1.HWAI_252	HWAI, S10 BTU
11997	IO_1.HWAIs_1.HWAI_253	HWAI, S10 N2
11998	IO_1.HWAIs_1.HWAI_254	HWAI, S10 CO2
11999	IO_1.HWAIs_1.HWAI_255	HWAI, S11 Spec Grav
12000	IO_1.HWAIs_1.HWAI_256	HWAI, S11 BTU
12001	IO_1.HWAIs_1.HWAI_257	HWAI, S11 N2
12002	IO_1.HWAIs_1.HWAI_258	HWAI, S11 CO2
12003	IO_1.HWAIs_1.HWAI_259	HWAI, S12 Spec Grav
12004	IO_1.HWAIs_1.HWAI_260	HWAI, S12 BTU
12005	IO_1.HWAIs_1.HWAI_261	HWAI, S12 N2
12006	IO_1.HWAIs_1.HWAI_262	HWAI, S12 CO2
12007	IO_1.HWAIs_1.HWAI_263	HWAI, Stream 1 H2O VC Sensor 1
12008	IO_1.HWAIs_1.HWAI_264	HWAI, Stream 1 H2O VC Sensor 2
12009	IO_1.HWAIs_1.HWAI_265	HWAI, Stream 1 H2O VC Sensor 3
12010	IO_1.HWAIs_1.HWAI_266	HWAI, Stream 1 H2O VC Sensor 4
12011	IO_1.HWAIs_1.HWAI_267	HWAI, Stream 1 H2O VC Sensor 5
12012	IO_1.HWAIs_1.HWAI_268	HWAI, Stream 1 H2O VC Sensor 6
12013	IO_1.HWAIs_1.HWAI_269	HWAI, Stream 2 H2O VC Sensor 1
12014	IO_1.HWAIs_1.HWAI_270	HWAI, Stream 2 H2O VC Sensor 2

Reg#	Variable	Description
12015	IO 1.HWAIs 1.HWAI 271	HWAI, Stream 2 H2O VC Sensor 3
12016	IO 1.HWAIs 1.HWAI 272	HWAI, Stream 2 H2O VC Sensor 4
12017	IO_1.HWAIs_1.HWAI_273	HWAI, Stream 2 H2O VC Sensor 5
12018	IO 1.HWAIs 1.HWAI 274	HWAI, Stream 2 H2O VC Sensor 6
12019	IO_1.HWAIs_1.HWAI_275	HWAI, Stream 3 H2O VC Sensor 1
12020	IO_1.HWAIs_1.HWAI_276	HWAI, Stream 3 H2O VC Sensor 2
12021	IO 1.HWAIs 1.HWAI 277	HWAI, Stream 3 H2O VC Sensor 3
12022	IO 1.HWAIs 1.HWAI 278	HWAI, Stream 3 H2O VC Sensor 4
12023	IO_1.HWAIs_1.HWAI_279	HWAI, Stream 3 H2O VC Sensor 5
12024	IO 1.HWAIs 1.HWAI 280	HWAI, Stream 3 H2O VC Sensor 6
12025	IO 1.HWAIs 1.HWAI 281	HWAI, Stream 4 H2O VC Sensor 1
12026	IO_1.HWAIs_1.HWAI_282	HWAI, Stream 4 H2O VC Sensor 2
12027	IO 1.HWAIs 1.HWAI 283	HWAI, Stream 4 H2O VC Sensor 3
12028	IO_1.HWAIs_1.HWAI_284	HWAI, Stream 4 H2O VC Sensor 4
12029	IO 1.HWAIs 1.HWAI 285	HWAI, Stream 4 H2O VC Sensor 5
12030	IO 1.HWAIs 1.HWAI 286	HWAI, Stream 4 H2O VC Sensor 6
12031	IO 1.HWAIs 1.HWAI 287	HWAI, Stream 5 H2O VC Sensor 1
12032	IO_1.HWAIs_1.HWAI_288	HWAI, Stream 5 H2O VC Sensor 2
12033	IO_1.HWAIs_1.HWAI_289	HWAI, Stream 5 H2O VC Sensor 3
12034	IO_1.HWAIs_1.HWAI_290	HWAI, Stream 5 H2O VC Sensor 4
12035	IO_1.HWAIs_1.HWAI_291	HWAI, Stream 5 H2O VC Sensor 5
12036	IO_1.HWAIs_1.HWAI_292	HWAI, Stream 5 H2O VC Sensor 6
12037	IO_1.HWAIs_1.HWAI_293	HWAI, Stream 6 H2O VC Sensor 1
12038	IO_1.HWAIs_1.HWAI_294	HWAI, Stream 6 H2O VC Sensor 2
12039	IO_1.HWAIs_1.HWAI_295	HWAI, Stream 6 H2O VC Sensor 3
12040	IO_1.HWAIs_1.HWAI_296	HWAI, Stream 6 H2O VC Sensor 4
12041	IO_1.HWAIs_1.HWAI_297	HWAI, Stream 6 H2O VC Sensor 5
12042	IO_1.HWAIs_1.HWAI_298	HWAI, Stream 6 H2O VC Sensor 6
12043	IO_1.HWAIs_1.HWAI_299	HWAI, Stream 7 H2O VC Sensor 1
12044	IO_1.HWAIs_1.HWAI_300	HWAI, Stream 7 H2O VC Sensor 2
12045	IO_1.HWAIs_1.HWAI_301	HWAI, Stream 7 H2O VC Sensor 3
12046	IO_1.HWAIs_1.HWAI_302	HWAI, Stream 7 H2O VC Sensor 4
12047	IO_1.HWAIs_1.HWAI_303	HWAI, Stream 7 H2O VC Sensor 5
12048	IO_1.HWAIs_1.HWAI_304	HWAI, Stream 7 H2O VC Sensor 6
12049	IO_1.HWAIs_1.HWAI_305	HWAI, Stream 8 H2O VC Sensor 1
12050	IO_1.HWAIs_1.HWAI_306	HWAI, Stream 8 H2O VC Sensor 2
12051	IO_1.HWAIs_1.HWAI_307	HWAI, Stream 8 H2O VC Sensor 3
12052	IO_1.HWAIs_1.HWAI_308	HWAI, Stream 8 H2O VC Sensor 4
12053	IO_1.HWAIs_1.HWAI_309	HWAI, Stream 8 H2O VC Sensor 5
12054	IO_1.HWAIs_1.HWAI_310	HWAI, Stream 8 H2O VC Sensor 6
12055	IO_1.HWAIs_1.HWAI_311	HWAI, Stream 9 H2O VC Sensor 1
12056	IO_1.HWAIs_1.HWAI_312	HWAI, Stream 9 H2O VC Sensor 2
12057	IO_1.HWAIs_1.HWAI_313	HWAI, Stream 9 H2O VC Sensor 3
12058	IO_1.HWAIs_1.HWAI_314	HWAI, Stream 9 H2O VC Sensor 4
12059	IO_1.HWAIs_1.HWAI_315	HWAI, Stream 9 H2O VC Sensor 5
12060	IO_1.HWAIs_1.HWAI_316	HWAI, Stream 9 H2O VC Sensor 6
12061	IO_1.HWAIs_1.HWAI_317	HWAI, Stream 10 H2O VC Sensor 1
12062	IO_1.HWAIs_1.HWAI_318	HWAI, Stream 10 H2O VC Sensor 2
12063	IO 1.HWAIs 1.HWAI 319	HWAI, Stream 10 H2O VC Sensor 3
12064	IO_1.HWAIs_1.HWAI_320	HWAI, Stream 10 H2O VC Sensor 4

Reg#	Variable	Description
12065	IO 1.HWAIs 1.HWAI 321	HWAI, Stream 10 H2O VC Sensor 5
12066	IO 1.HWAIs 1.HWAI 322	HWAI, Stream 10 H2O VC Sensor 6
12067	IO 1.HWAIs 1.HWAI 323	HWAI. Stream 11 H2O VC Sensor 1
12068	IO 1.HWAIs 1.HWAI 324	HWAI, Stream 11 H2O VC Sensor 2
12069	IO 1.HWAIs 1.HWAI 325	HWAI, Stream 11 H2O VC Sensor 3
12070	IO_1.HWAIs_1.HWAI_326	HWAI, Stream 11 H2O VC Sensor 4
12071	IO 1.HWAIs 1.HWAI 327	HWAI, Stream 11 H2O VC Sensor 5
12072	IO 1.HWAIs 1.HWAI 328	HWAI, Stream 11 H2O VC Sensor 6
12073	IO 1.HWAIs 1.HWAI 329	HWAI, Stream 12 H2O VC Sensor 1
12074	IO 1.HWAIs 1.HWAI 330	HWAI, Stream 12 H2O VC Sensor 2
12075	IO 1.HWAIs 1.HWAI 331	HWAI, Stream 12 H2O VC Sensor 3
12076	IO 1.HWAIs 1.HWAI 332	HWAI, Stream 12 H2O VC Sensor 4
12077	IO 1.HWAIs 1.HWAI 333	HWAI, Stream 12 H2O VC Sensor 5
12078	IO 1.HWAIs 1.HWAI 334	HWAI, Stream 12 H2O VC Sensor 6
12079	IO 1.HWAIs 1.HWAI 335	HWAI, CV 13 Position
12080	IO 1.HWAIs 1.HWAI 336	HWAI, CV 14 Position
12081	IO 1.HWAIs 1.HWAI 337	HWAI, CV 15 Position
12082	IO 1.HWAIs 1.HWAI 338	HWAI, CV 16 Position
12083	IO 1.HWAIs 1.HWAI 339	HWAI, CV 17 Position
12084	IO_1.HWAIs_1.HWAI_340	HWAI, CV 18 Position
12085	PG_GC.GC_1.GC_1.S1_BTUSAT_MIN	GC Dataset 1 Minimum Limit for Saturated BTU
12086	PG_GC.GC_1.GC_1.S1_BTUSAT_MAX	GC Dataset 1 Maximum Limit for Saturated BTU
12087	PG_GC.GC_1.GC_2.S1_BTUSAT_MIN	GC Dataset 2 Minimum Limit for Saturated BTU
12088	PG_GC.GC_1.GC_2.S1_BTUSAT_MAX	GC Dataset 2 Maximum Limit for Saturated BTU
12089	PG_GC.GC_1.GC_3.S1_BTUSAT_MIN	GC Dataset 3 Minimum Limit for Saturated BTU
12090	PG_GC.GC_1.GC_3.S1_BTUSAT_MAX	GC Dataset 3 Maximum Limit for Saturated BTU
12091	PG_GC.GC_1.GC_4.S1_BTUSAT_MIN	GC Dataset 4 Minimum Limit for Saturated BTU
12092	PG_GC.GC_1.GC_4.S1_BTUSAT_MAX	GC Dataset 4 Maximum Limit for Saturated BTU
12093	PG_GC.GC_1.GC_5.S1_BTUSAT_MIN	GC Dataset 5 Minimum Limit for Saturated BTU
12094	PG_GC.GC_1.GC_5.S1_BTUSAT_MAX	GC Dataset 5 Maximum Limit for Saturated BTU
12095	PG_GC.GC_1.GC_6.S1_BTUSAT_MIN	GC Dataset 6 Minimum Limit for Saturated BTU
12096	PG_GC.GC_1.GC_6.S1_BTUSAT_MAX	GC Dataset 6 Maximum Limit for Saturated BTU
12097	PG_GC.GC_1.GC_7.S1_BTUSAT_MIN	GC Dataset 7 Minimum Limit for Saturated BTU
12098	PG_GC.GC_1.GC_7.S1_BTUSAT_MAX	GC Dataset 7 Maximum Limit for Saturated BTU
12099	PG_GC.GC_1.GC_8.S1_BTUSAT_MIN	GC Dataset 8 Minimum Limit for Saturated BTU
12100	PG_GC.GC_1.GC_8.S1_BTUSAT_MAX	GC Dataset 8 Maximum Limit for Saturated BTU
12101	MB.Spare	
12102	MB.Spare	
12103	MB.Spare	
12104	MB.Spare	
12105	MB.Spare	
12106	MB.Spare	
12107	MB.Spare	1
12108	MB.Spare	CC Dataset 1 requiles of internal communication
12109	pg_GC.GC_1.GC_1.S1_Compressability_Raw	GC Dataset 1 results of internal compressibility calculation GC Dataset 1 total unnormalized Mole Percent of
12110	pg_GC.GC_1.GC_1.S1_TotalUnNmMoleP_Raw	all components
12111	pg_GC.GC_1.GC_1.S1_TotalGPM_Raw	GC Dataset 1 grams per mole of gas
12112	pg_GC.GC_1.GC_2.S1_Compressability_Raw	GC Dataset 2 results of internal compressiblity calculation

Issued: February 2023

Reg#	Variable	Description
		GC Dataset 2 total unnormalized Mole Percent of
12113	pg_GC.GC_1.GC_2.S1_TotalUnNmMoleP_Raw	all components
12114	pg_GC.GC_1.GC_2.S1_TotalGPM_Raw	GC Dataset 2 grams per mole of gas
12115	pg_GC.GC_1.GC_3.S1_Compressability_Raw	GC Dataset 3 results of internal compressibility calculation
12116	pg GC.GC 1.GC 3.S1 TotalUnNmMoleP Raw	GC Dataset 3 total unnormalized Mole Percent of all components
12117	pg GC.GC 1.GC 3.S1 TotalGPM Raw	GC Dataset 3 grams per mole of gas
12111	pg_GC.GC_1.GC_3.G1_10talG1 Wi_l\aw	GC Dataset 3 grams per mole or gas GC Dataset 4 results of internal compressibility
12118	pg_GC.GC_1.GC_4.S1_Compressability_Raw	calculation GC Dataset 4 total unnormalized Mole Percent of
12119	pg_GC.GC_1.GC_4.S1_TotalUnNmMoleP_Raw	all components
12120	pg_GC.GC_1.GC_4.S1_TotalGPM_Raw	GC Dataset 4 grams per mole of gas
12121	pg_GC.GC_1.GC_5.S1_Compressability_Raw	GC Dataset 5 results of internal compressibility calculation
12122	pg GC.GC 1.GC 5.S1 TotalUnNmMoleP Raw	GC Dataset 5 total unnormalized Mole Percent of all components
12123	pg GC.GC 1.GC 5.S1 TotalGPM Raw	·
12123	pg_GC.GC_1.GC_5.51_16talGFW_Raw	GC Dataset 5 grams per mole of gas GC Dataset 6 results of internal compressiblity
12124	pg_GC.GC_1.GC_6.S1_Compressability_Raw	calculation
12125	pg_GC.GC_1.GC_6.S1_TotalUnNmMoleP_Raw	GC Dataset 6 total unnormalized Mole Percent of all components
12126	pg_GC.GC_1.GC_6.S1_TotalGPM_Raw	GC Dataset 6 grams per mole of gas
12127	pg_GC.GC_1.GC_7.S1_Compressability_Raw	GC Dataset 7 results of internal compressibility calculation
12128	pg GC.GC 1.GC 7.S1 TotalUnNmMoleP Raw	GC Dataset 7 total unnormalized Mole Percent of all components
12129	pg GC.GC 1.GC 7.S1 TotalGPM Raw	GC Dataset 7 grams per mole of gas
12123	pg_GC.GC_1.GC_1.G1_10talG1 W_1\aw	GC Dataset 8 results of internal compressibility
12130	pg_GC.GC_1.GC_8.S1_Compressability_Raw	calculation GC Dataset 8 total unnormalized Mole Percent of
12131	pg_GC.GC_1.GC_8.S1_TotalUnNmMoleP_Raw	all components
12132	pg_GC.GC_1.GC_8.S1_TotalGPM_Raw	GC Dataset 8 grams per mole of gas
12133	MB.Spare	
12134	MB.Spare	
12135	MB.Spare	
12136	MB.Spare	
12137	MB.Spare	
12138	MB.Spare	
12139	MB.Spare	
12140	MB.Spare	
12141	MB.Spare	
12142	MB.Spare	
12143	MB.Spare	
12144	MB.Spare	
12145	pg_GC.GC_1.GC_1.S1_NC6_Fact	GC Dataset 1 normalization factor for NC6, when using a C6+ GC
12146	pg_GC.GC_1.GC_1.S1_NC7_Fact	GC Dataset 1 normalization factor for NC7, when using a C6+ GC
12147	pg_GC.GC_1.GC_1.S1_NC8_Fact	GC Dataset 1 normalization factor for NC8, when using a C6+ GC GC Dataset 1 normalization factor for NC9, when
12148	pg_GC.GC_1.GC_1.S1_NC9_Fact	using a C6+ or C9+ GC GC Dataset 1 normalization factor for NC10,
12149	pg_GC.GC_1.GC_1.S1_NC10_Fact	when using a C6+ or C9+ GC GC Dataset 2 normalization factor for NC6, when
12150	pg_GC.GC_1.GC_2.S1_NC6_Fact	using a C6+ GC

Reg#	Variable	Description
		GC Dataset 2 normalization factor for NC7, when
12151	pg_GC.GC_1.GC_2.S1_NC7_Fact	using a C6+ GC
40450	00 00 4 00 0 04 NO0 Feet	GC Dataset 2 normalization factor for NC8, when
12152	pg_GC.GC_1.GC_2.S1_NC8_Fact	using a C6+ GC
12153	pg_GC.GC_1.GC_2.S1_NC9_Fact	GC Dataset 2 normalization factor for NC9, when using a C6+ or C9+ GC
12133	pg_GC.GC_1.GC_2.31_NC9_Fact	GC Dataset 2 normalization factor for NC10,
12154	pg_GC.GC_1.GC_2.S1_NC10_Fact	when using a C6+ or C9+ GC
		GC Dataset 3 normalization factor for NC6, when
12155	pg_GC.GC_1.GC_3.S1_NC6_Fact	using a C6+ GC
		GC Dataset 3 normalization factor for NC7, when
12156	pg_GC.GC_1.GC_3.S1_NC7_Fact	using a C6+ GC
40457	00.00.4.00.004.N00.5.4	GC Dataset 3 normalization factor for NC8, when
12157	pg_GC.GC_1.GC_3.S1_NC8_Fact	using a C6+ GC GC Dataset 3 normalization factor for NC9, when
12158	pg_GC.GC_1.GC_3.S1_NC9_Fact	using a C6+ or C9+ GC
12130	pg_GC.GC_1.GC_3.31_NC9_Fact	GC Dataset 3 normalization factor for NC10,
12159	pg_GC.GC_1.GC_3.S1_NC10_Fact	when using a C6+ or C9+ GC
		GC Dataset 4 normalization factor for NC6, when
12160	pg_GC.GC_1.GC_4.S1_NC6_Fact	using a C6+ GC
		GC Dataset 4 normalization factor for NC7, when
12161	pg_GC.GC_1.GC_4.S1_NC7_Fact	using a C6+ GC
40400	00.00 4.00 4.04 N00 5	GC Dataset 4 normalization factor for NC8, when
12162	pg_GC.GC_1.GC_4.S1_NC8_Fact	using a C6+ GC GC Dataset 4 normalization factor for NC9, when
12163	pg_GC.GC_1.GC_4.S1_NC9_Fact	using a C6+ or C9+ GC
12100	pg_00.00_1.00_4.01_N00_1 act	GC Dataset 4 normalization factor for NC10,
12164	pg_GC.GC_1.GC_4.S1_NC10_Fact	when using a C6+ or C9+ GC
		GC Dataset 5 normalization factor for NC6, when
12165	pg_GC.GC_1.GC_5.S1_NC6_Fact	using a C6+ GC
		GC Dataset 5 normalization factor for NC7, when
12166	pg_GC.GC_1.GC_5.S1_NC7_Fact	using a C6+ GC
10167	ng CC CC 1 CC E C1 NC0 Foot	GC Dataset 5 normalization factor for NC8, when using a C6+ GC
12167	pg_GC.GC_1.GC_5.S1_NC8_Fact	GC Dataset 5 normalization factor for NC9, when
12168	pg_GC.GC_1.GC_5.S1_NC9_Fact	using a C6+ or C9+ GC
	<u> </u>	GC Dataset 5 normalization factor for NC10,
12169	pg_GC.GC_1.GC_5.S1_NC10_Fact	when using a C6+ or C9+ GC
		GC Dataset 6 normalization factor for NC6, when
12170	pg_GC.GC_1.GC_6.S1_NC6_Fact	using a C6+ GC
10171	CC CC 4 CC C C4 NC7 Foot	GC Dataset 6 normalization factor for NC7, when
12171	pg_GC.GC_1.GC_6.S1_NC7_Fact	using a C6+ GC GC Dataset 6 normalization factor for NC8, when
12172	pg_GC.GC_1.GC_6.S1_NC8_Fact	using a C6+ GC
12112	- F3	GC Dataset 6 normalization factor for NC9, when
12173	pg_GC.GC_1.GC_6.S1_NC9_Fact	using a C6+ or C9+ GC
		GC Dataset 6 normalization factor for NC10,
12174	pg_GC.GC_1.GC_6.S1_NC10_Fact	when using a C6+ or C9+ GC
40475		GC Dataset 7 normalization factor for NC6, when
12175	pg_GC.GC_1.GC_7.S1_NC6_Fact	using a C6+ GC GC Dataset 7 normalization factor for NC7, when
12176	pg_GC.GC_1.GC_7.S1_NC7_Fact	using a C6+ GC
12170	<u> </u>	GC Dataset 7 normalization factor for NC8, when
12177	pg_GC.GC_1.GC_7.S1_NC8_Fact	using a C6+ GC
		GC Dataset 7 normalization factor for NC9, when
12178	pg_GC.GC_1.GC_7.S1_NC9_Fact	using a C6+ or C9+ GC
		GC Dataset 7 normalization factor for NC10,
12179	pg_GC.GC_1.GC_7.S1_NC10_Fact	when using a C6+ or C9+ GC
10100	ng CC CC 1 CC 0 C1 NCC F+	GC Dataset 8 normalization factor for NC6, when
12180	pg_GC.GC_1.GC_8.S1_NC6_Fact	using a C6+ GC GC Dataset 8 normalization factor for NC7, when
12181	pg_GC.GC_1.GC_8.S1_NC7_Fact	using a C6+ GC
12101	P9_00.00_1.00_0.01_NO1_1 aut	Lasting a Oo too

Reg#	Variable	Description
		GC Dataset 8 normalization factor for NC8, when
12182	pg_GC.GC_1.GC_8.S1_NC8_Fact	using a C6+ GC
10100	na CC CC 1 CC 9 S1 NC0 Foot	GC Dataset 8 normalization factor for NC9, when
12183	pg_GC.GC_1.GC_8.S1_NC9_Fact	using a C6+ or C9+ GC GC Dataset 8 normalization factor for NC10,
12184	pg_GC.GC_1.GC_8.S1_NC10_Fact	when using a C6+ or C9+ GC
12185	MB.Spare	
12186	MB.Spare	
12187	MB.Spare	
12188	MB.Spare	
12189	MB.Spare	
12190	MB.Spare	
12191	MB.Spare	
12192	MB.Spare	
12193	MB.Spare	
12194	MB.Spare	
12195	MB.Spare	
12196	MB.Spare	
12197	MB.Spare	
12198	MB.Spare	
12199	MB.Spare	
12200	MB.Spare	
12201	MB.Spare	
12202	MB.Spare	
12203	MB.Spare	
12204	MB.Spare	
12205	MB.FW_Version	Firmware version
		CWM12R Desginer Project Version Number -
12206	@GV.App Version	Format V.vvbb - where V = major version, vv = minor version, and bb = beta version
12207	IO 1.HWAIs 1.HWRTD 1	Tillior Version, and bb – beta Version
12208	IO 1.HWAIs 1.HWRTD 2	
12209	IO 1.HWAIs 1.HWRTD 3	
12210	IO 1.HWAIs 1.HWRTD 4	
12211	IO 1.HWAIs 1.HWRTD 5	
12212	IO 1.HWAIs 1.HWRTD 6	
12213	IO 1.HWAIs 1.HWRTD 7	
12214	IO 1.HWAIs 1.HWRTD 8	
12214	IO 1.HWAIs 1.HWRTD 9	
12216	IO 1.HWAIs 1.HWRTD 10	
12217	IO 1.HWAIs 1.HWRTD 11	
12218	IO 1.HWAIs 1.HWRTD 12	
12219	IO 1.HWAIs 1.HWRTD 13	
12220	IO 1.HWAIs 1.HWRTD 14	
12221	IO 1.HWAIs 1.HWRTD 15	
12222	IO 1.HWAIs 1.HWRTD 16	
12223	IO 1.HWAIs 1.HWRTD 17	
12224	IO 1.HWAIs 1.HWRTD 18	
12225	IO_1.HWAIs_1.HWRTD_19	
12226	IO 1.HWAIs 1.HWRTD 20	
12227	IO 1.HWAIs 1.HWRTD 21	
: 4441	10_11111110 10_111111111 <u>0_</u> 21	<u>l</u>

Reg#	Variable	Description
12228	IO 1.HWAIs 1.HWRTD 22	•
12229	IO 1.HWAIs 1.HWRTD 23	
12230	IO 1.HWAIs 1.HWRTD 24	
12231	IO 1.HWAIs 1.HWRTD 25	
12232	IO 1.HWAIs 1.HWRTD 26	
12233	IO 1.HWAIs 1.HWRTD 27	
12234	IO 1.HWAIs 1.HWRTD 28	
12235	IO 1.HWAIs 1.HWRTD 29	
12236	IO 1.HWAIs 1.HWRTD 30	
12237	IO 1.HWAIs 1.HWTC 1	HWTC, Run 1 Temperature
12238	IO 1.HWAIs 1.HWTC 2	HWTC, Run 2 Temperature
12239	IO 1.HWAIs 1.HWTC 3	HWTC, Run 3 Temperature
12240	IO 1.HWAIs 1.HWTC 4	HWTC, Run 4 Temperature
12241	IO 1.HWAIs 1.HWTC 5	HWTC, Run 5 Temperature
12242	IO 1.HWAIs 1.HWTC 6	HWTC, Run 6 Temperature
12243	IO 1.HWAIs 1.HWTC 7	HWTC, Run 7 Temperature
12244	IO_1.HWAIs_1.HWTC_8	HWTC, Run 8 Temperature
12245	IO_1.HWAIs_1.HWTC_9	HWTC, Run 9 Temperature
12246	IO_1.HWAIs_1.HWTC_10	HWTC, Run 10 Temperature
12247	IO_1.HWAIs_1.HWTC_11	HWTC, Run 11 Temperature
12248	IO_1.HWAIs_1.HWTC_12	HWTC, Run 12 Temperature
12249	IO_1.HWAIs_1.HWTC_13	HWTC, Station 1 Inlet Temperature
12250	IO_1.HWAIs_1.HWTC_14	HWTC, Station 2 Inlet Temperature
12251	IO_1.HWAIs_1.HWTC_15	HWTC, Station 3 Inlet Temperature
12252	IO_1.HWAIs_1.HWTC_16	HWTC, Station 4 Inlet Temperature
12253	IO_1.HWAIs_1.HWTC_17	HWTC, Station 5 Inlet Temperature
12254	IO_1.HWAIs_1.HWTC_18	HWTC, Station 6 Inlet Temperature
12255	IO_1.HWAIs_1.HWTC_19	HWTC, Station 1 Outlet Temperature
12256	IO_1.HWAIs_1.HWTC_20	HWTC, Station 2 Outlet Temperature
12257	IO_1.HWAIs_1.HWTC_21	HWTC, Station 3 Outlet Temperature
12258	IO_1.HWAIs_1.HWTC_22	HWTC, Station 4 Outlet Temperature
12259	IO_1.HWAIs_1.HWTC_23	HWTC, Station 5 Outlet Temperature
12260	IO_1.HWAIs_1.HWTC_24	HWTC, Station 6 Outlet Temperature
12261	IO_1.HWAIs_1.HWTC_25	HWTC, Shared FTemp 1
12262	IO_1.HWAIs_1.HWTC_26	HWTC, Shared FTemp 2
12263	IO_1.HWAIs_1.HWTC_27	HWTC, Shared FTemp 3
12264	IO_1.HWAIs_1.HWTC_28	HWTC, Shared FTemp 4
12265	IO_1.HWAIs_1.HWTC_29	HWTC, Shared FTemp 5
12266	IO_1.HWAIs_1.HWTC_30	HWTC, Shared FTemp 6 Bidirectional Control - Station 2 Programmed
12267	BC.ST_BiDir_Ctl_2.BiDirVlvCtl_1.Status	Control, Status
12268	BC.ST_BiDir_Ctl_4.BiDirVlvCtl_1.Status	Bidirectional Control - Station 4 Programmed Control, Status Bidirectional Control - Station 6 Programmed
12269	BC.ST_BiDir_Ctl_6.BiDirVlvCtl_1.Status	Control, Status
12270	IO 1.HWAIs 1.HWAI 341	,
12271	IO 1.HWAIs 1.HWAI 342	
12272	IO_1.HWAIs_1.HWAI_343	
12273	IO 1.HWAIs 1.HWAI 344	
12274	IO 1.HWAIs 1.HWAI 345	
12275	IO 1.HWAIs 1.HWAI 346	
12213		

Issued: February 2023

Reg#	Variable	Description
12276	IO 1.HWAIs 1.HWAI 347	Description
12277	IO 1.HWAIs 1.HWAI 348	
12277	IO 1.HWAIs 1.HWAI 349	
12279	Modbus AO 1	
12279	Modbus AO 2	
12281	Modbus AO 3	
12282	Modbus AO 4	
12283	Modbus AO 5	
12284	Modbus AO 6	
12285	Modbus AO 7	
12286	Modbus AO 8	
12287	Modbus AO 9	
12288	Modbus AO 9	
12289	Modbus AO 10 Modbus AO 11	
12299	Modbus AO 12	
12291	Modbus AO 14	
12292	Modbus AO 15	
12293	Modbus AO 15	
12294	Modbus AO 16	
12295	MVT.MVT_1_DP	
12296	MVT.MVT_1_SP	
12297	MVT.MVT_1_FT	
12298	MVT.MVT_2_DP	
12299	MVT.MVT_2_SP	
12300	MVT.MVT_2_FT	
12301	MVT.MVT_3_DP	
12302	MVT.MVT_3_SP	
12303	MVT.MVT_3_FT	
12304	MVT.MVT_4_DP	
12305	MVT.MVT_4_SP	
12306	MVT.MVT_4_FT	
12307	MVT.MVT_5_DP	
12308	MVT.MVT_5_SP	
12309	MVT.MVT_5_FT	
12310	MVT.MVT_6_DP	
12311	MVT.MVT_6_SP	
12312	MVT.MVT_6_FT	
12313	MVT.MVT_7_DP	
12314	MVT.MVT_7_SP	
12315	MVT.MVT_7_FT	
12316	MVT.MVT_8_DP	
12317	MVT.MVT_8_SP	
12318	MVT.MVT_8_FT	
12319	MVT.MVT_9_DP	
12320	MVT.MVT_9_SP	
12321	MVT.MVT_9_FT	
12322	MVT.MVT_10_DP	
12323	MVT.MVT_10_SP	
12324	MVT.MVT_10_FT	
12325	MVT.MVT_11_DP	

Reg#	Variable	Description
12326	MVT.MVT_11_SP	
12327	MVT.MVT_11_FT	
12328	MVT.MVT_12_DP	
12329	MVT.MVT_12_SP	
12330	MVT.MVT_12_FT	

10001	00.00 4.00 PF P 4.401 A11	
12331	pg_GC.GC_1.GC_RF_Data_1.SlaveAddress	
12332	pg_GC.GC_1.GC_RF_Data_1.IPAddr	
12333	pg_GC.GC_1.GC_RF_Data_1.CommPort	
12334	pg_GC.GC_1.GC_RF_Data_1.GC_Type	
12335	pg_GC.GC_1.GC_RF_Data_1.Method	
12336	pg_GC.GC_1.GC_RF_Data_1.Delta_Lim	
12337	pg_GC.GC_1.GC_RF_Data_2.SlaveAddress	
12338	pg_GC.GC_1.GC_RF_Data_2.IPAddr	
12339	pg_GC.GC_1.GC_RF_Data_2.CommPort	
12340	pg_GC.GC_1.GC_RF_Data_2.GC_Type	
12341	pg_GC.GC_1.GC_RF_Data_2.Method	
12342	pg_GC.GC_1.GC_RF_Data_2.Delta_Lim	
12343	pg_GC.GC_1.GC_RF_Data_3.SlaveAddress	
12344	pg_GC.GC_1.GC_RF_Data_3.IPAddr	
12345	pg_GC.GC_1.GC_RF_Data_3.CommPort	
12346	pg_GC.GC_1.GC_RF_Data_3.GC_Type	
12347	pg_GC.GC_1.GC_RF_Data_3.Method	
12348	pg_GC.GC_1.GC_RF_Data_3.Delta_Lim	
12349	pg_GC.GC_1.GC_RF_Data_4.SlaveAddress	
12350	pg_GC.GC_1.GC_RF_Data_4.IPAddr	
12351	pg_GC.GC_1.GC_RF_Data_4.CommPort	
12352	pg_GC.GC_1.GC_RF_Data_4.GC_Type	
12353	pg_GC.GC_1.GC_RF_Data_4.Method	
12354	pg_GC.GC_1.GC_RF_Data_4.Delta_Lim	
12355	pg_GC.GC_1.GC_RF_Data_5.SlaveAddress	
12356	pg_GC.GC_1.GC_RF_Data_5.IPAddr	
12357	pg_GC.GC_1.GC_RF_Data_5.CommPort	
12358	pg_GC.GC_1.GC_RF_Data_5.GC_Type	
12359	pg_GC.GC_1.GC_RF_Data_5.Method	
12360	pg_GC.GC_1.GC_RF_Data_5.Delta_Lim	
12361	pg_GC.GC_1.GC_RF_Data_6.SlaveAddress	
12362	pg_GC.GC_1.GC_RF_Data_6.IPAddr	
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M-165

12363	pg_GC.GC_1.GC_RF_Data_6.CommPort	
12364	pg_GC.GC_1.GC_RF_Data_6.GC_Type	
12365	pg_GC.GC_1.GC_RF_Data_6.Method	
12366	pg_GC.GC_1.GC_RF_Data_6.Delta_Lim	
12367	pg_GC.GC_1.GC_RF_Data_7.SlaveAddress	
12368	pg_GC.GC_1.GC_RF_Data_7.IPAddr	
12369	pg_GC.GC_1.GC_RF_Data_7.CommPort	
12370	pg_GC.GC_1.GC_RF_Data_7.GC_Type	
12371	pg_GC.GC_1.GC_RF_Data_7.Method	
12372	pg_GC.GC_1.GC_RF_Data_7.Delta_Lim	
12373	pg_GC.GC_1.GC_RF_Data_8.SlaveAddress	
12374	pg_GC.GC_1.GC_RF_Data_8.IPAddr	
12375	pg_GC.GC_1.GC_RF_Data_8.CommPort	
12376	pg_GC.GC_1.GC_RF_Data_8.GC_Type	
12377	pg_GC.GC_1.GC_RF_Data_8.Method	
12378	pg_GC.GC_1.GC_RF_Data_8.Delta_Lim	
12379	UFM.UFM_1.Kfact	
12380	UFM.UFM_1.SwirlAngle	
12381	UFM.UFM_1.SNR1A	
12382	UFM.UFM_1.SNR1B	
12383	UFM.UFM_1.SNR2A	
12384	UFM.UFM_1.SNR2B	
12385	UFM.UFM_1.SNR3A	
12386	UFM.UFM_1.SNR3B	
12387	UFM.UFM_1.SNR4A	
12388	UFM.UFM_1.SNR4B	
12389	UFM.UFM_1.SNR5A	
12390	UFM.UFM_1.SNR5B	
12391	UFM.UFM_1.UCFlow_MCFD	
12392	UFM.UFM_1.InstType	
12393	UFM.UFM_1.Paths	
12394	UFM.UFM_1.SampleRate	
12395	UFM.UFM_1.VSamplesL1	
12396	UFM.UFM_1.VSamplesL2	
12397	UFM.UFM_1.VSamplesL3	
12398	UFM.UFM_1.VSamplesL4	
12399	UFM.UFM_1.VSamplesL5	
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12400	UFM.UFM_1.GainLim1A	
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12401	UFM.UFM_1.GainLim1B	
12402	UFM.UFM_1.GainLim2A	
12403	UFM.UFM_1.GainLim2B	
12404	UFM.UFM_1.GainLim3A	
12405	UFM.UFM_1.GainLim3B	
12406	UFM.UFM_1.GainLim4A	
12407	UFM.UFM_1.GainLim4B	
12408	UFM.UFM_1.GainLim5A	
12409	UFM.UFM_1.GainLim5B	
12410	UFM.UFM_1.SysStatusV	
12411	UFM.UFM_1.SysStatusC	
12412	UFM.UFM_1.CheckSum	
12413	UFM.UFM_1.Mode	
12414	UFM.UFM_1.CFlow_MCFD	
12415	UFM.UFM_1.FailureRate1	
12416	UFM.UFM_1.FailureRate2	
12417	UFM.UFM_1.FailureRate3	
12418	UFM.UFM_1.FailureRate4	
12419	UFM.UFM_1.PctGoodA1	
12420	UFM.UFM_1.PctGoodB1	
12421	UFM.UFM_1.PctGoodC1	
12422	UFM.UFM_1.PctGoodD1	
12423	UFM.UFM_1.PctGoodA2	
12424	UFM.UFM_1.PctGoodB2	
12425	UFM.UFM_1.PctGoodC2	
12426	UFM.UFM_1.PctGoodD2	
12427	UFM.UFM_1.Delay	
12428	UFM.UFM_1.Turbulence1	
12429	UFM.UFM_1.Turbulence2	
12430	UFM.UFM_1.Turbulence3	
12431	UFM.UFM_1.Turbulence4	
12432	UFM.UFM_1.Monitor_Count	
12433	UFM.UFM_1.PCT_Good	
12434	UFM.UFM_1.Good_Polls	
12435	UFM.UFM_1.Bad_Polls	
12436	UFM.UFM_1.DataChk.VALID1_PCT	
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12433 UFM.UFM_1.DataChk.VALID3_PCT 12439 UFM.UFM_1.DataChk.VALID4_PCT 12440 UFM.UFM_1.DataChk.VALID5_PCT 12441 UFM.UFM_1.DataChk.FLWVEL_L1 12442 UFM.UFM_1.DataChk.FLWVEL_L2 12443 UFM.UFM_1.DataChk.FLWVEL_L3 12444 UFM.UFM_1.DataChk.FLWVEL_L4 12445 UFM.UFM_1.DataChk.FLWVEL_L6 12446 UFM.UFM_1.DataChk.SNR1AB 12447 UFM.UFM_1.DataChk.SNR2AB 12448 UFM.UFM_1.DataChk.SNR3AB 12449 UFM.UFM_1.DataChk.SNSABAB 12449 UFM.UFM_1.DataChk.SNDSPD_L1 12450 UFM.UFM_1.DataChk.SNDSPD_L1 12451 UFM.UFM_1.DataChk.SNDSPD_L2 12452 UFM.UFM_1.DataChk.SNDSPD_L3 12453 UFM.UFM_1.DataChk.SNDSPD_L3 12454 UFM.UFM_1.DataChk.SNDSPD_L4 12455 UFM.UFM_1.DataChk.SNDSPD_L5 12456 UFM.UFM_1.DataChk.SNDSPD_L6 12456 UFM.UFM_1.DataChk.SNDSPD_L6 12459 UFM.UFM_1.DataChk.SNDSPD_L6 12459 UFM.UFM_1.DataChk.SNDSPD_L6 12459 UFM.UFM	12437	UFM.UFM_1.DataChk.VALID2_PCT	
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12452 UFM.UFM_1.DataChk.SNDSPD_L3 12453 UFM.UFM_1.DataChk.SNDSPD_L3 12454 UFM.UFM_1.DataChk.SNDSPD_L4 12455 UFM.UFM_1.DataChk.SNDSPD_L5 12456 UFM.UFM_1.DataChk.SNDSPD_L5 12457 UFM.UFM_1.DataChk.NUM_AQRD 12458 UFM.UFM_1.DataChk.NUM_AQRD 12459 UFM.UFM_1.DataChk.SYMMTRY_ALRM 12460 UFM.UFM_1.DataChk.S1_Diff 12461 UFM.UFM_1.DataChk.S2_Diff 12462 UFM.UFM_1.DataChk.S3_Diff 12463 UFM.UFM_1.DataChk.S4_Diff 12464 UFM.UFM_1.DataChk.FLWVEL_R1 12465 UFM.UFM_1.DataChk.FLWVEL_R2 12466 UFM.UFM_1.DataChk.FLWVEL_R3 12468 UFM.UFM_1.DataChk.FLWVEL_R4 12469 UFM.UFM_1.DataChk.FLWVEL_R5 12470 UFM.UFM_1.DataChk.FLWVEL_R5 12471 UFM.UFM_1.DataChk.Path1_Status 12472 UFM.UFM_1.DataChk.Path2_Status	12450	UFM.UFM_1.DataChk.SNR5AB	
12453 UFM.UFM_1.DataChk.SNDSPD_L3 12454 UFM.UFM_1.DataChk.SNDSPD_L4 12455 UFM.UFM_1.DataChk.SNDSPD_L5 12456 UFM.UFM_1.DataChk.ANGLE_ALRM 12457 UFM.UFM_1.DataChk.NUM_AQRD 12458 UFM.UFM_1.DataChk.PF_ALRM 12459 UFM.UFM_1.DataChk.SYMMTRY_ALRM 12460 UFM.UFM_1.DataChk.S1_Diff 12461 UFM.UFM_1.DataChk.S2_Diff 12462 UFM.UFM_1.DataChk.S3_Diff 12463 UFM.UFM_1.DataChk.S4_Diff 12464 UFM.UFM_1.DataChk.S5_Diff 12465 UFM.UFM_1.DataChk.FLWVEL_R1 12466 UFM.UFM_1.DataChk.FLWVEL_R2 12467 UFM.UFM_1.DataChk.FLWVEL_R3 12468 UFM.UFM_1.DataChk.FLWVEL_R4 12469 UFM.UFM_1.DataChk.FLWVEL_R5 12470 UFM.UFM_1.DataChk.ZF_Test 12471 UFM.UFM_1.DataChk.Path1_Status 12472 UFM.UFM_1.DataChk.Path2_Status	12451	UFM.UFM_1.DataChk.SNDSPD_L1	
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12455 UFM.UFM_1.DataChk.SNDSPD_L5 12456 UFM.UFM_1.DataChk.ANGLE_ALRM 12457 UFM.UFM_1.DataChk.NUM_AQRD 12458 UFM.UFM_1.DataChk.PF_ALRM 12459 UFM.UFM_1.DataChk.SYMMTRY_ALRM 12460 UFM.UFM_1.DataChk.S1_Diff 12461 UFM.UFM_1.DataChk.S2_Diff 12462 UFM.UFM_1.DataChk.S3_Diff 12463 UFM.UFM_1.DataChk.S4_Diff 12464 UFM.UFM_1.DataChk.S5_Diff 12465 UFM.UFM_1.DataChk.S5_Diff 12466 UFM.UFM_1.DataChk.FLWVEL_R1 12466 UFM.UFM_1.DataChk.FLWVEL_R2 12467 UFM.UFM_1.DataChk.FLWVEL_R3 12468 UFM.UFM_1.DataChk.FLWVEL_R4 12469 UFM.UFM_1.DataChk.FLWVEL_R5 12470 UFM.UFM_1.DataChk.FLWVEL_R5 12471 UFM.UFM_1.DataChk.Path1_Status 12472 UFM.UFM_1.DataChk.Path2_Status	12453	UFM.UFM_1.DataChk.SNDSPD_L3	
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	12473	UFM.UFM_1.DataChk.Path3_Status	

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12480	UFM.UFM_1.DataChk.AGC15_DLTA	
12481	UFM.UFM_1.DataChk.AGC24_DLTA	
12482	UFM.UFM_1.DataChk.AGC35_DLTA	
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12484	UFM.UFM_1.DataChk.AGCDLT_2A2B	
12485	UFM.UFM_1.DataChk.AGCDLT_3A3B	
12486	UFM.UFM_1.DataChk.AGCDLT_4A4B	
12487	UFM.UFM_1.DataChk.AGCDLT_5A5B	
12488	UFM.UFM_1.DataChk.AVGAGC_1A1B	
12489	UFM.UFM_1.DataChk.AVGAGC_2A2B	
12490	UFM.UFM_1.DataChk.AVGAGC_3A3B	
12491	UFM.UFM_1.DataChk.AVGAGC_4A4B	
12492	UFM.UFM_1.DataChk.AVGAGC_5A5B	
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12494	UFM.UFM_1.DataChk.PF_Lo	
12495	UFM.UFM_1.DataChk.SYMMTRY_Hi	
12496	UFM.UFM_1.DataChk.SYMMTRY_Lo	
12497	UFM.UFM_1.DataChk.ANGLE_Hi	
12498	UFM.UFM_1.DataChk.ANGLE_Lo	
12499	UFM.UFM_1.DataChk.VALPCT_L	
12500	UFM.UFM_1.DataChk.SNR_Lo	
12501	UFM.UFM_1.DataChk.AGCIA_Hi	
12502	UFM.UFM_1.DataChk.AGCOS_Hi	
12503	UFM.UFM_1.DataChk.SOS_Hi	
12504	UFM.UFM_1.DataChk.SOS_Lo	
12505	UFM.UFM_1.DataChk.VoG_Hi	
12506	UFM.UFM_1.DataChk.VoG_Lo	
12507	UFM.UFM_1.DataChk.SOSDiff_Hi	
12508	UFM.UFM_1.DataChk.ZF_Test_Hi	
12509	UFM.UFM_1.DataChk.Trblncl_Hi	
12510	UFM.UFM_1.DataChk.TrblncO_Hi	

12511	UFM.UFM_1.DataChk.Comm_Lo	
12512	UFM.UFM_1.DataChk.AvgFlowVel_MaxChng	
12513	UFM.UFM_1.DataValid_Cutoff	
12514	UFM.UFM_2.Kfact	
12515	UFM.UFM_2.SwirlAngle	
12516	UFM.UFM_2.SNR1A	
12517	UFM.UFM_2.SNR1B	
12518	UFM.UFM_2.SNR2A	
12519	UFM.UFM_2.SNR2B	
12520	UFM.UFM_2.SNR3A	
12521	UFM.UFM_2.SNR3B	
12522	UFM.UFM_2.SNR4A	
12523	UFM.UFM_2.SNR4B	
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12551	UFM.UFM_2.FailureRate2
12552	UFM.UFM_2.FailureRate3
12553	UFM.UFM_2.FailureRate4
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12555	UFM.UFM_2.PctGoodB1
12556	UFM.UFM_2.PctGoodC1
12557	UFM.UFM_2.PctGoodD1
12558	UFM.UFM_2.PctGoodA2
12559	UFM.UFM_2.PctGoodB2
12560	UFM.UFM_2.PctGoodC2
12561	UFM.UFM_2.PctGoodD2
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12563	UFM.UFM_2.Turbulence1
12564	UFM.UFM_2.Turbulence2
12565	UFM.UFM_2.Turbulence3
12566	UFM.UFM_2.Turbulence4
12567	UFM.UFM_2.Monitor_Count
12568	UFM.UFM_2.PCT_Good
12569	UFM.UFM_2.Good_Polls
12570	UFM.UFM_2.Bad_Polls
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12572	UFM.UFM_2.DataChk.VALID2_PCT
12573	UFM.UFM_2.DataChk.VALID3_PCT
12574	UFM.UFM_2.DataChk.VALID4_PCT
12575	UFM.UFM_2.DataChk.VALID5_PCT
12576	UFM.UFM_2.DataChk.FLWVEL_L1
12577	UFM.UFM_2.DataChk.FLWVEL_L2
12578	UFM.UFM_2.DataChk.FLWVEL_L3
12579	UFM.UFM_2.DataChk.FLWVEL_L4
12580	UFM.UFM_2.DataChk.FLWVEL_L5
12581	UFM.UFM_2.DataChk.SNR1AB
12582	UFM.UFM_2.DataChk.SNR2AB
12583	UFM.UFM_2.DataChk.SNR3AB
12584	UFM.UFM_2.DataChk.SNR4AB

12585	UFM.UFM_2.DataChk.SNR5AB	
12586	UFM.UFM_2.DataChk.SNDSPD_L1	
12587	UFM.UFM_2.DataChk.SNDSPD_L2	
12588	UFM.UFM_2.DataChk.SNDSPD_L3	
12589	UFM.UFM_2.DataChk.SNDSPD_L4	
12590	UFM.UFM_2.DataChk.SNDSPD_L5	
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12592	UFM.UFM_2.DataChk.NUM_AQRD	
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12594	UFM.UFM_2.DataChk.SYMMTRY_ALRM	
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12596	UFM.UFM_2.DataChk.S2_Diff	
12597	UFM.UFM_2.DataChk.S3_Diff	
12598	UFM.UFM_2.DataChk.S4_Diff	
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12601	UFM.UFM_2.DataChk.FLWVEL_R2	
12602	UFM.UFM_2.DataChk.FLWVEL_R3	
12603	UFM.UFM_2.DataChk.FLWVEL_R4	
12604	UFM.UFM_2.DataChk.FLWVEL_R5	
12605	UFM.UFM_2.DataChk.ZF_Test	
12606	UFM.UFM_2.DataChk.Path1_Status	
12607	UFM.UFM_2.DataChk.Path2_Status	
12608	UFM.UFM_2.DataChk.Path3_Status	
12609		
12610	UFM.UFM_2.DataChk.Path5_Status	
12611	UFM.UFM_2.DataChk.Meter_Status	
12612	UFM.UFM_2.DataChk.Meter_Prfrmnc	
12613	UFM.UFM_2.DataChk.Meter_Stable	
12614	UFM.UFM_2.DataChk.AGC13_DLTA	
12615	UFM.UFM_2.DataChk.AGC15_DLTA	
12616	UFM.UFM_2.DataChk.AGC24_DLTA	
12617	UFM.UFM_2.DataChk.AGC35_DLTA	
12618	UFM.UFM_2.DataChk.AGCDLT_1A1B	
12619	UFM.UFM_2.DataChk.AGCDLT_2A2B	
12620	UFM.UFM_2.DataChk.AGCDLT_3A3B	
12621	UFM.UFM_2.DataChk.AGCDLT_4A4B	

12622	UFM.UFM_2.DataChk.AGCDLT_5A5B	
12623	UFM.UFM_2.DataChk.AVGAGC_1A1B	
12624	UFM.UFM_2.DataChk.AVGAGC_2A2B	
12625	UFM.UFM_2.DataChk.AVGAGC_3A3B	
12626	UFM.UFM_2.DataChk.AVGAGC_4A4B	
12627	UFM.UFM 2.DataChk.AVGAGC 5A5B	
12628	UFM.UFM_2.DataChk.PF_Hi	
12629	UFM.UFM_2.DataChk.PF_Lo	
12630	UFM.UFM_2.DataChk.SYMMTRY_Hi	
12631	UFM.UFM_2.DataChk.SYMMTRY_Lo	
12632	UFM.UFM_2.DataChk.ANGLE_Hi	
12633	UFM.UFM_2.DataChk.ANGLE_Lo	
12634	UFM.UFM_2.DataChk.VALPCT_L	
12635	UFM.UFM_2.DataChk.SNR_Lo	
12636	UFM.UFM_2.DataChk.AGCIA_Hi	
12637	UFM.UFM_2.DataChk.AGCOS_Hi	
12638	UFM.UFM_2.DataChk.SOS_Hi	
12639	UFM.UFM_2.DataChk.SOS_Lo	
12640	UFM.UFM_2.DataChk.VoG_Hi	
12641	UFM.UFM_2.DataChk.VoG_Lo	
12642	UFM.UFM_2.DataChk.SOSDiff_Hi	
12643	UFM.UFM_2.DataChk.ZF_Test_Hi	
12644	UFM.UFM_2.DataChk.Trblncl_Hi	
12645	UFM.UFM_2.DataChk.TrblncO_Hi	
12646	UFM.UFM_2.DataChk.Comm_Lo	
12647	UFM.UFM_2.DataChk.AvgFlowVel_MaxChng	
12648	UFM.UFM_2.DataValid_Cutoff	
12649	UFM.UFM_3.Kfact	
12650	UFM.UFM_3.SwirlAngle	
12651	UFM.UFM_3.SNR1A	
12652	UFM.UFM_3.SNR1B	
12653	UFM.UFM_3.SNR2A	
12654	UFM.UFM_3.SNR2B	
12655	UFM.UFM_3.SNR3A	
12656	UFM.UFM_3.SNR3B	
12657	UFM.UFM_3.SNR4A	
12658	UFM.UFM_3.SNR4B	

12659	UFM.UFM 3.SNR5A	
12660	UFM.UFM_3.SNR5B	
12661	UFM.UFM_3.UCFlow_MCFD	
12662	UFM.UFM_3.InstType	
12663	UFM.UFM_3.Paths	
12664	UFM.UFM_3.SampleRate	
12665	UFM.UFM_3.VSamplesL1	
12666	UFM.UFM_3.VSamplesL2	
12667	UFM.UFM_3.VSamplesL3	
12668	UFM.UFM_3.VSamplesL4	
12669	UFM.UFM_3.VSamplesL5	
12670	UFM.UFM_3.GainLim1A	
12671	UFM.UFM_3.GainLim1B	
12672	UFM.UFM_3.GainLim2A	
12673	UFM.UFM_3.GainLim2B	
12674	UFM.UFM_3.GainLim3A	
12675	UFM.UFM_3.GainLim3B	
12676	UFM.UFM_3.GainLim4A	
12677	UFM.UFM_3.GainLim4B	
12678	UFM.UFM_3.GainLim5A	
12679	UFM.UFM_3.GainLim5B	
12680	UFM.UFM_3.SysStatusV	
12681	UFM.UFM_3.SysStatusC	
12682	UFM.UFM_3.CheckSum	
12683	UFM.UFM_3.Mode	
12684	UFM.UFM_3.CFlow_MCFD	
12685	UFM.UFM_3.FailureRate1	
12686	UFM.UFM_3.FailureRate2	
12687	UFM.UFM_3.FailureRate3	
12688	UFM.UFM_3.FailureRate4	
12689	UFM.UFM_3.PctGoodA1	
12690	UFM.UFM_3.PctGoodB1	
12691	UFM.UFM_3.PctGoodC1	
12692	UFM.UFM_3.PctGoodD1	
12693	UFM.UFM_3.PctGoodA2	
12694	UFM.UFM_3.PctGoodB2	
12695	UFM.UFM_3.PctGoodC2	

12696	UFM.UFM_3.PctGoodD2	
12697	UFM.UFM_3.Delay	
12698	UFM.UFM_3.Turbulence1	
12699	UFM.UFM_3.Turbulence2	
12700	UFM.UFM_3.Turbulence3	
12701	UFM.UFM_3.Turbulence4	
12702	UFM.UFM_3.Monitor_Count	
12703	UFM.UFM_3.PCT_Good	
12704	UFM.UFM_3.Good_Polls	
12705	UFM.UFM_3.Bad_Polls	
12706	UFM.UFM_3.DataChk.VALID1_PCT	
12707	UFM.UFM_3.DataChk.VALID2_PCT	
12708	UFM.UFM_3.DataChk.VALID3_PCT	
12709	UFM.UFM_3.DataChk.VALID4_PCT	
12710	UFM.UFM_3.DataChk.VALID5_PCT	
12711	UFM.UFM_3.DataChk.FLWVEL_L1	
12712	UFM.UFM_3.DataChk.FLWVEL_L2	
12713	UFM.UFM_3.DataChk.FLWVEL_L3	
12714	UFM.UFM_3.DataChk.FLWVEL_L4	
12715	UFM.UFM_3.DataChk.FLWVEL_L5	
12716	UFM.UFM_3.DataChk.SNR1AB	
12717	UFM.UFM_3.DataChk.SNR2AB	
12718	UFM.UFM_3.DataChk.SNR3AB	
12719	UFM.UFM_3.DataChk.SNR4AB	
12720	UFM.UFM_3.DataChk.SNR5AB	
12721	UFM.UFM_3.DataChk.SNDSPD_L1	
12722	UFM.UFM_3.DataChk.SNDSPD_L2	
12723	UFM.UFM_3.DataChk.SNDSPD_L3	
12724	UFM.UFM_3.DataChk.SNDSPD_L4	
12725	UFM.UFM_3.DataChk.SNDSPD_L5	
12726	UFM.UFM_3.DataChk.ANGLE_ALRM	
12727	UFM.UFM_3.DataChk.NUM_AQRD	
12728	UFM.UFM_3.DataChk.PF_ALRM	
12729	UFM.UFM_3.DataChk.SYMMTRY_ALRM	
12730	UFM.UFM_3.DataChk.S1_Diff	
12731	UFM.UFM_3.DataChk.S2_Diff	
12732	UFM.UFM_3.DataChk.S3_Diff	

12733	UFM.UFM_3.DataChk.S4_Diff	
12734	UFM.UFM_3.DataChk.S5_Diff	
12735	UFM.UFM_3.DataChk.FLWVEL_R1	
12736	UFM.UFM_3.DataChk.FLWVEL_R2	
12737	UFM.UFM_3.DataChk.FLWVEL_R3	
12738	UFM.UFM_3.DataChk.FLWVEL_R4	
12739	UFM.UFM_3.DataChk.FLWVEL_R5	
12740	UFM.UFM_3.DataChk.ZF_Test	
12740	UFM.UFM_3.DataChk.Path1_Status	
12742	UFM.UFM_3.DataChk.Path2_Status	
12743	UFM.UFM_3.DataChk.Path3_Status	
12744	UFM.UFM_3.DataChk.Path4_Status	
12745	UFM.UFM_3.DataChk.Path5_Status	
12746	UFM.UFM_3.DataChk.Meter_Status	
12747	UFM.UFM_3.DataChk.Meter_Prfrmnc	
12748	UFM.UFM_3.DataChk.Meter_Stable	
12749	UFM.UFM_3.DataChk.AGC13_DLTA	
12750	UFM.UFM_3.DataChk.AGC15_DLTA	
12751	UFM.UFM_3.DataChk.AGC24_DLTA	
12752	UFM.UFM_3.DataChk.AGC35_DLTA	
12753	UFM.UFM_3.DataChk.AGCDLT_1A1B	
12754	UFM.UFM_3.DataChk.AGCDLT_2A2B	
12755	UFM.UFM_3.DataChk.AGCDLT_3A3B	
12756	UFM.UFM_3.DataChk.AGCDLT_4A4B	
12757	UFM.UFM_3.DataChk.AGCDLT_5A5B	
12758	UFM.UFM_3.DataChk.AVGAGC_1A1B	
12759	UFM.UFM_3.DataChk.AVGAGC_2A2B	
12760	UFM.UFM_3.DataChk.AVGAGC_3A3B	
12761	UFM.UFM_3.DataChk.AVGAGC_4A4B	
12762	UFM.UFM_3.DataChk.AVGAGC_5A5B	
12763	UFM.UFM_3.DataChk.PF_Hi	
12764	UFM.UFM_3.DataChk.PF_Lo	
12765	UFM.UFM_3.DataChk.SYMMTRY_Hi	
12766	UFM.UFM_3.DataChk.SYMMTRY_Lo	
12767	UFM.UFM_3.DataChk.ANGLE_Hi	
12768	UFM.UFM_3.DataChk.ANGLE_Lo	
12769	UFM.UFM_3.DataChk.VALPCT_L	
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12770	UFM.UFM_3.DataChk.SNR_Lo	
12771	UFM.UFM_3.DataChk.AGCIA_Hi	
12772	UFM.UFM_3.DataChk.AGCOS_Hi	
12773	UFM.UFM_3.DataChk.SOS_Hi	
12774	UFM.UFM_3.DataChk.SOS_Lo	
12775	UFM.UFM_3.DataChk.VoG_Hi	
12776	UFM.UFM_3.DataChk.VoG_Lo	
12777	UFM.UFM_3.DataChk.SOSDiff_Hi	
12778	UFM.UFM_3.DataChk.ZF_Test_Hi	
12779	UFM.UFM_3.DataChk.Trblncl_Hi	
12780	UFM.UFM_3.DataChk.TrblncO_Hi	
12781	UFM.UFM_3.DataChk.Comm_Lo	
12782	UFM.UFM_3.DataChk.AvgFlowVel_MaxChng	
12783	UFM.UFM_3.DataValid_Cutoff	
12784	UFM.UFM_4.Kfact	
12785	UFM.UFM_4.SwirlAngle	
12786	UFM.UFM_4.SNR1A	
12787	UFM.UFM_4.SNR1B	
12788	UFM.UFM_4.SNR2A	
12789	UFM.UFM_4.SNR2B	
12790	UFM.UFM_4.SNR3A	
12791	UFM.UFM_4.SNR3B	
12792	UFM.UFM_4.SNR4A	
12793	UFM.UFM_4.SNR4B	
12794	UFM.UFM_4.SNR5A	
12795	UFM.UFM_4.SNR5B	
12796	UFM.UFM_4.UCFlow_MCFD	
12797	UFM.UFM_4.InstType	
12798	UFM.UFM_4.Paths	
12799	UFM.UFM_4.SampleRate	
12800	UFM.UFM_4.VSamplesL1	
12801	UFM.UFM_4.VSamplesL2	
12802	UFM.UFM_4.VSamplesL3	
12803	UFM.UFM_4.VSamplesL4	
12804	UFM.UFM_4.VSamplesL5	
12805	UFM.UFM_4.GainLim1A	
12806	UFM.UFM_4.GainLim1B	
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12807	UFM.UFM_4.GainLim2A	
12808	_	
12809	_	
12810		
12811	UFM.UFM_4.GainLim4A	
12812	_	
12813	_	
12814	_	
12815	_ ,	
12816	_ ,	
12817	_	
12818	_	
12819		
12820	_	
12821	UFM.UFM_4.FailureRate2	
12822	_	
12823	_	
12824	UFM.UFM_4.PctGoodA1	
12825	UFM.UFM_4.PctGoodB1	
12826	UFM.UFM_4.PctGoodC1	
12827	UFM.UFM_4.PctGoodD1	
12828	UFM.UFM_4.PctGoodA2	
12829	UFM.UFM_4.PctGoodB2	
12830	UFM.UFM_4.PctGoodC2	
12831	UFM.UFM_4.PctGoodD2	
12832	UFM.UFM_4.Delay	
12833	UFM.UFM_4.Turbulence1	
12834	UFM.UFM_4.Turbulence2	
12835	UFM.UFM_4.Turbulence3	
12836	UFM.UFM_4.Turbulence4	
12837	UFM.UFM_4.Monitor_Count	
12838	UFM.UFM_4.PCT_Good	
12839	UFM.UFM_4.Good_Polls	
12840	UFM.UFM_4.Bad_Polls	
12841	UFM.UFM_4.DataChk.VALID1_PCT	
12842	UFM.UFM_4.DataChk.VALID2_PCT	
12843	UFM.UFM_4.DataChk.VALID3_PCT	
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12844	UFM.UFM_4.DataChk.VALID4_PCT	
12845	UFM.UFM_4.DataChk.VALID5_PCT	
12846	UFM.UFM_4.DataChk.FLWVEL_L1	
12847	UFM.UFM_4.DataChk.FLWVEL_L2	
12848	UFM.UFM_4.DataChk.FLWVEL_L3	
12849	UFM.UFM_4.DataChk.FLWVEL_L4	
12850	UFM.UFM_4.DataChk.FLWVEL_L5	
12851	UFM.UFM_4.DataChk.SNR1AB	
12852	UFM.UFM_4.DataChk.SNR2AB	
12853	UFM.UFM_4.DataChk.SNR3AB	
12854	UFM.UFM_4.DataChk.SNR4AB	
12855	UFM.UFM_4.DataChk.SNR5AB	
12856	UFM.UFM_4.DataChk.SNDSPD_L1	
12857	UFM.UFM_4.DataChk.SNDSPD_L2	
12858	UFM.UFM_4.DataChk.SNDSPD_L3	
12859	UFM.UFM_4.DataChk.SNDSPD_L4	
12860	UFM.UFM_4.DataChk.SNDSPD_L5	
12861	UFM.UFM_4.DataChk.ANGLE_ALRM	
12862	UFM.UFM_4.DataChk.NUM_AQRD	
12863	UFM.UFM_4.DataChk.PF_ALRM	
12864	UFM.UFM_4.DataChk.SYMMTRY_ALRM	
12865	UFM.UFM_4.DataChk.S1_Diff	
12866	UFM.UFM_4.DataChk.S2_Diff	
12867	UFM.UFM_4.DataChk.S3_Diff	
12868	UFM.UFM_4.DataChk.S4_Diff	
12869	UFM.UFM_4.DataChk.S5_Diff	
12870	UFM.UFM_4.DataChk.FLWVEL_R1	
12871	UFM.UFM_4.DataChk.FLWVEL_R2	
12872	UFM.UFM_4.DataChk.FLWVEL_R3	
12873	UFM.UFM_4.DataChk.FLWVEL_R4	
12874	UFM.UFM_4.DataChk.FLWVEL_R5	
12875	UFM.UFM_4.DataChk.ZF_Test	
12876	UFM.UFM_4.DataChk.Path1_Status	
12877	UFM.UFM_4.DataChk.Path2_Status	
12878	UFM.UFM_4.DataChk.Path3_Status	
12879	UFM.UFM_4.DataChk.Path4_Status	
12880	UFM.UFM_4.DataChk.Path5_Status	

12881	UFM.UFM 4.DataChk.Meter_Status	
12882		
12883		
12884		
12885		
12886		
12887		
12888		
12889		
12890		
12891	UFM.UFM_4.DataChk.AGCDLT_4A4B	
12892		
12893		
12894		
12895	UFM.UFM_4.DataChk.AVGAGC_3A3B	
12896	UFM.UFM_4.DataChk.AVGAGC_4A4B	
12897	UFM.UFM_4.DataChk.AVGAGC_5A5B	
12898	UFM.UFM_4.DataChk.PF_Hi	
12899	UFM.UFM_4.DataChk.PF_Lo	
12900	UFM.UFM_4.DataChk.SYMMTRY_Hi	
12901	UFM.UFM_4.DataChk.SYMMTRY_Lo	
12902	UFM.UFM_4.DataChk.ANGLE_Hi	
12903	UFM.UFM_4.DataChk.ANGLE_Lo	
12904	UFM.UFM_4.DataChk.VALPCT_L	
12905	UFM.UFM_4.DataChk.SNR_Lo	
12906	UFM.UFM_4.DataChk.AGCIA_Hi	
12907	UFM.UFM_4.DataChk.AGCOS_Hi	
12908	UFM.UFM_4.DataChk.SOS_Hi	
12909	UFM.UFM_4.DataChk.SOS_Lo	
12910	UFM.UFM_4.DataChk.VoG_Hi	
12911	UFM.UFM_4.DataChk.VoG_Lo	
12912	UFM.UFM_4.DataChk.SOSDiff_Hi	
12913	UFM.UFM_4.DataChk.ZF_Test_Hi	
12914	UFM.UFM_4.DataChk.Trblncl_Hi	
12915	UFM.UFM_4.DataChk.TrbIncO_Hi	
12916	UFM.UFM_4.DataChk.Comm_Lo	
12917	UFM.UFM_4.DataChk.AvgFlowVel_MaxChng	

12918	UFM.UFM_4.DataValid_Cutoff	
12919	UFM.UFM_5.Kfact	
12920	UFM.UFM_5.SwirlAngle	
12921	UFM.UFM_5.SNR1A	
12922	UFM.UFM_5.SNR1B	
12923	UFM.UFM_5.SNR2A	
12924	UFM.UFM_5.SNR2B	
12925	UFM.UFM_5.SNR3A	
12926	UFM.UFM_5.SNR3B	
12927	UFM.UFM_5.SNR4A	
12928	UFM.UFM_5.SNR4B	
12929	UFM.UFM_5.SNR5A	
12930	UFM.UFM_5.SNR5B	
12931	UFM.UFM_5.UCFlow_MCFD	
12932	UFM.UFM_5.InstType	
12933	UFM.UFM_5.Paths	
12934	UFM.UFM_5.SampleRate	
12935	UFM.UFM_5.VSamplesL1	
12936	UFM.UFM_5.VSamplesL2	
12937	UFM.UFM_5.VSamplesL3	
12938	UFM.UFM_5.VSamplesL4	
12939	UFM.UFM_5.VSamplesL5	
12940	UFM.UFM_5.GainLim1A	
12941	UFM.UFM_5.GainLim1B	
12942	UFM.UFM_5.GainLim2A	
12943	UFM.UFM_5.GainLim2B	
12944	UFM.UFM_5.GainLim3A	
12945	UFM.UFM_5.GainLim3B	
12946	UFM.UFM_5.GainLim4A	
12947	UFM.UFM_5.GainLim4B	
12948	UFM.UFM_5.GainLim5A	
12949	UFM.UFM_5.GainLim5B	
12950	UFM.UFM_5.SysStatusV	
12951	UFM.UFM_5.SysStatusC	
12952	UFM.UFM_5.CheckSum	
12953	UFM.UFM_5.Mode	
12954	UFM.UFM_5.CFlow_MCFD	

12955	UFM.UFM_5.FailureRate1	
12956	UFM.UFM_5.FailureRate2	
12957	UFM.UFM_5.FailureRate3	
12958	UFM.UFM_5.FailureRate4	
12959	UFM.UFM_5.PctGoodA1	
12960	UFM.UFM_5.PctGoodB1	
12961	UFM.UFM_5.PctGoodC1	
12962	UFM.UFM_5.PctGoodD1	
12963	UFM.UFM_5.PctGoodA2	
12964	UFM.UFM_5.PctGoodB2	
12965	UFM.UFM_5.PctGoodC2	
12966	UFM.UFM_5.PctGoodD2	
12967	UFM.UFM_5.Delay	
12968	UFM.UFM_5.Turbulence1	
12969	UFM.UFM_5.Turbulence2	
12970	UFM.UFM_5.Turbulence3	
12971	UFM.UFM_5.Turbulence4	
12972	UFM.UFM_5.Monitor_Count	
12973	UFM.UFM_5.PCT_Good	
12974	UFM.UFM_5.Good_Polls	
12975	UFM.UFM_5.Bad_Polls	
12976	UFM.UFM_5.DataChk.VALID1_PCT	
12977	UFM.UFM_5.DataChk.VALID2_PCT	
12978	UFM.UFM_5.DataChk.VALID3_PCT	
12979	UFM.UFM_5.DataChk.VALID4_PCT	
12980	UFM.UFM_5.DataChk.VALID5_PCT	
12981	UFM.UFM_5.DataChk.FLWVEL_L1	
12982	UFM.UFM_5.DataChk.FLWVEL_L2	
12983	UFM.UFM_5.DataChk.FLWVEL_L3	
12984	UFM.UFM_5.DataChk.FLWVEL_L4	
12985	UFM.UFM_5.DataChk.FLWVEL_L5	
12986	UFM.UFM_5.DataChk.SNR1AB	
12987	UFM.UFM_5.DataChk.SNR2AB	
12988	UFM.UFM_5.DataChk.SNR3AB	
12989	UFM.UFM_5.DataChk.SNR4AB	
12990	UFM.UFM_5.DataChk.SNR5AB	
12991	UFM.UFM_5.DataChk.SNDSPD_L1	
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12992	UFM.UFM_5.DataChk.SNDSPD_L2	
12993	UFM.UFM_5.DataChk.SNDSPD_L3	
12994	UFM.UFM_5.DataChk.SNDSPD_L4	
12995	UFM.UFM_5.DataChk.SNDSPD_L5	
12996	UFM.UFM_5.DataChk.ANGLE_ALRM	
12997	UFM.UFM_5.DataChk.NUM_AQRD	
12998	UFM.UFM_5.DataChk.PF_ALRM	
12999	UFM.UFM_5.DataChk.SYMMTRY_ALRM	
13000	UFM.UFM_5.DataChk.S1_Diff	
13001	UFM.UFM_5.DataChk.S2_Diff	
13002	UFM.UFM_5.DataChk.S3_Diff	
13003	UFM.UFM_5.DataChk.S4_Diff	
13004	UFM.UFM_5.DataChk.S5_Diff	
13005	UFM.UFM_5.DataChk.FLWVEL_R1	
13006	UFM.UFM_5.DataChk.FLWVEL_R2	
13007	UFM.UFM_5.DataChk.FLWVEL_R3	
13008	UFM.UFM_5.DataChk.FLWVEL_R4	
13009	UFM.UFM_5.DataChk.FLWVEL_R5	
13010	UFM.UFM_5.DataChk.ZF_Test	
13011	UFM.UFM_5.DataChk.Path1_Status	
13012	UFM.UFM_5.DataChk.Path2_Status	
13013	UFM.UFM_5.DataChk.Path3_Status	
13014	UFM.UFM_5.DataChk.Path4_Status	
13015	UFM.UFM_5.DataChk.Path5_Status	
13016	UFM.UFM_5.DataChk.Meter_Status	
13017	UFM.UFM_5.DataChk.Meter_Prfrmnc	
13018	UFM.UFM_5.DataChk.Meter_Stable	
13019	UFM.UFM_5.DataChk.AGC13_DLTA	
13020	UFM.UFM_5.DataChk.AGC15_DLTA	
13021	UFM.UFM_5.DataChk.AGC24_DLTA	
13022	UFM.UFM_5.DataChk.AGC35_DLTA	
13023	UFM.UFM_5.DataChk.AGCDLT_1A1B	
13024	UFM.UFM_5.DataChk.AGCDLT_2A2B	
13025	UFM.UFM_5.DataChk.AGCDLT_3A3B	
13026	UFM.UFM_5.DataChk.AGCDLT_4A4B	
13027	UFM.UFM_5.DataChk.AGCDLT_5A5B	
13028	UFM.UFM_5.DataChk.AVGAGC_1A1B	

13029	UFM.UFM_5.DataChk.AVGAGC_2A2B	
13030	UFM.UFM_5.DataChk.AVGAGC_3A3B	
13031	UFM.UFM_5.DataChk.AVGAGC_4A4B	
13032	UFM.UFM_5.DataChk.AVGAGC_5A5B	
13033	UFM.UFM_5.DataChk.PF_Hi	
13034	UFM.UFM_5.DataChk.PF_Lo	
13035	UFM.UFM_5.DataChk.SYMMTRY_Hi	
13036	UFM.UFM_5.DataChk.SYMMTRY_Lo	
13037	UFM.UFM_5.DataChk.ANGLE_Hi	
13038	UFM.UFM_5.DataChk.ANGLE_Lo	
13039	UFM.UFM_5.DataChk.VALPCT_L	
13040	UFM.UFM_5.DataChk.SNR_Lo	
13041	UFM.UFM_5.DataChk.AGCIA_Hi	
13042	UFM.UFM_5.DataChk.AGCOS_Hi	
13043	UFM.UFM_5.DataChk.SOS_Hi	
13044	UFM.UFM_5.DataChk.SOS_Lo	
13045	UFM.UFM_5.DataChk.VoG_Hi	
13046	UFM.UFM_5.DataChk.VoG_Lo	
13047	UFM.UFM_5.DataChk.SOSDiff_Hi	
13048	UFM.UFM_5.DataChk.ZF_Test_Hi	
13049	UFM.UFM_5.DataChk.Trblncl_Hi	
13050	UFM.UFM_5.DataChk.TrblncO_Hi	
13051	UFM.UFM_5.DataChk.Comm_Lo	
13052	UFM.UFM_5.DataChk.AvgFlowVel_MaxChng	
13053	UFM.UFM_6.DataValid_Cutoff	
13054	UFM.UFM_6.Kfact	
13055	UFM.UFM_6.SwirlAngle	
13056	UFM.UFM_6.SNR1A	
13057	UFM.UFM_6.SNR1B	
13058	UFM.UFM_6.SNR2A	
13059	UFM.UFM_6.SNR2B	
13060	UFM.UFM_6.SNR3A	
13061	UFM.UFM_6.SNR3B	
13062	UFM.UFM_6.SNR4A	
13063	UFM.UFM_6.SNR4B	
13064	UFM.UFM_6.SNR5A	
13065	UFM.UFM_6.SNR5B	

M-183

13066	UFM.UFM_6.UCFlow_MCFD	
13067	UFM.UFM_6.InstType	
13068	UFM.UFM_6.Paths	
13069	UFM.UFM_6.SampleRate	
13070	UFM.UFM_6.VSamplesL1	
13071	UFM.UFM_6.VSamplesL2	
13072	UFM.UFM_6.VSamplesL3	
13073	UFM.UFM_6.VSamplesL4	
13074	UFM.UFM_6.VSamplesL5	
13075	UFM.UFM_6.GainLim1A	
13076	UFM.UFM_6.GainLim1B	
13077	UFM.UFM_6.GainLim2A	
13078	UFM.UFM_6.GainLim2B	
13079	UFM.UFM_6.GainLim3A	
13080	UFM.UFM_6.GainLim3B	
13081	UFM.UFM_6.GainLim4A	
13082	UFM.UFM_6.GainLim4B	
13083	UFM.UFM_6.GainLim5A	
13084	UFM.UFM_6.GainLim5B	
13085	UFM.UFM_6.SysStatusV	
13086	UFM.UFM_6.SysStatusC	
13087	UFM.UFM_6.CheckSum	
13088	UFM.UFM_6.Mode	
13089	UFM.UFM_6.CFlow_MCFD	
13090	UFM.UFM_6.FailureRate1	
13091	UFM.UFM_6.FailureRate2	
13092	UFM.UFM_6.FailureRate3	
13093	UFM.UFM_6.FailureRate4	
13094	UFM.UFM_6.PctGoodA1	
13095	UFM.UFM_6.PctGoodB1	
13096	UFM.UFM_6.PctGoodC1	
13097	UFM.UFM_6.PctGoodD1	
13098	UFM.UFM_6.PctGoodA2	
13099	UFM.UFM_6.PctGoodB2	
13100	UFM.UFM_6.PctGoodC2	
13101	UFM.UFM_6.PctGoodD2	
13102	UFM.UFM_6.Delay	

13104	13103	UFM.UFM 6.Turbulence1	
13105		_	
13106		_	
13107		_	
13108	13107	_	
13109	13108		
13110 UFM.UFM_6.Bad_Polls 13111 UFM.UFM_6.DataChk.VALID1_PCT 13112 UFM.UFM_6.DataChk.VALID2_PCT 13113 UFM.UFM_6.DataChk.VALID3_PCT 13114 UFM.UFM_6.DataChk.VALID4_PCT 13115 UFM.UFM_6.DataChk.VALID5_PCT 13116 UFM.UFM_6.DataChk.FLWVEL_L1 13117 UFM.UFM_6.DataChk.FLWVEL_L2 13118 UFM.UFM_6.DataChk.FLWVEL_L2 13119 UFM.UFM_6.DataChk.FLWVEL_L4 13110 UFM.UFM_6.DataChk.FLWVEL_L4 13111 UFM.UFM_6.DataChk.FLWVEL_L5 13121 UFM.UFM_6.DataChk.FLWVEL_L5 13122 UFM.UFM_6.DataChk.SNR1AB 13122 UFM.UFM_6.DataChk.SNR2AB 13123 UFM.UFM_6.DataChk.SNR3AB 13124 UFM.UFM_6.DataChk.SNR3AB 13125 UFM.UFM_6.DataChk.SNR5AB 13126 UFM.UFM_6.DataChk.SNDSPD_L1 13127 UFM.UFM_6.DataChk.SNDSPD_L2 13128 UFM.UFM_6.DataChk.SNDSPD_L2 13129 UFM.UFM_6.DataChk.SNDSPD_L3 13129 UFM.UFM_6.DataChk.SNDSPD_L4 13130 UFM.UFM_6.DataChk.SNDSPD_L5 13131 UFM.UFM_6.DataChk.SNDSPD_L5 13131 UFM.UFM_6.DataChk.SNDSPD_L5 13131 UFM.UFM_6.DataChk.NUM_AQRD 13132 UFM.UFM_6.DataChk.NUM_AQRD 13133 UFM.UFM_6.DataChk.SNUM_AQRD 13133 UFM.UFM_6.DataChk.SNUM_AQRD 13134 UFM.UFM_6.DataChk.SNUM_AQRD 13135 UFM.UFM_6.DataChk.SN_DIff 13136 UFM.UFM_6.DataChk.S1_Diff 13137 UFM.UFM_6.DataChk.S2_Diff 13131 UFM.UFM_6.DataChk.S2_Diff			
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13112 UFM.UFM_6.DataChk.VALID2_PCT 13113 UFM.UFM_6.DataChk.VALID3_PCT 13114 UFM.UFM_6.DataChk.VALID4_PCT 13115 UFM.UFM_6.DataChk.VALID5_PCT 13116 UFM.UFM_6.DataChk.FLWVEL_L1 13117 UFM.UFM_6.DataChk.FLWVEL_L2 13118 UFM.UFM_6.DataChk.FLWVEL_L2 13119 UFM.UFM_6.DataChk.FLWVEL_L3 13119 UFM.UFM_6.DataChk.FLWVEL_L4 13120 UFM.UFM_6.DataChk.FLWVEL_L5 13121 UFM.UFM_6.DataChk.SNR1AB 13122 UFM.UFM_6.DataChk.SNR2AB 13123 UFM.UFM_6.DataChk.SNR3AB 13124 UFM.UFM_6.DataChk.SNR3AB 13125 UFM.UFM_6.DataChk.SNR5AB 13126 UFM.UFM_6.DataChk.SNDSPD_L1 13127 UFM.UFM_6.DataChk.SNDSPD_L2 13128 UFM.UFM_6.DataChk.SNDSPD_L3 13129 UFM.UFM_6.DataChk.SNDSPD_L4 13130 UFM.UFM_6.DataChk.SNDSPD_L4 13131 UFM.UFM_6.DataChk.SNDSPD_L5 13131 UFM.UFM_6.DataChk.SNDSPD_L5 13131 UFM.UFM_6.DataChk.NDM_AQRD 13133 UFM.UFM_6.DataChk.NDM_AQRD 13134 UFM.UFM_6.DataChk.SNDSPD_L5 13135 UFM.UFM_6.DataChk.SNDSPD_L5 13136 UFM.UFM_6.DataChk.SNDSPD_L5 13137 UFM.UFM_6.DataChk.SNDSPD_L5 13138 UFM.UFM_6.DataChk.SNDSPD_L5 13139 UFM.UFM_6.DataChk.SNDSPD_L5 131310 UFM.UFM_6.DataChk.SNDSPD_L5 131311 UFM.UFM_6.DataChk.NDM_AQRD 13133 UFM.UFM_6.DataChk.SNDSPD_L5 131310 UFM.UFM_6.DataChk.SNDSPD_L5 131310 UFM.UFM_6.DataChk.SNDSPD_L5 131311 UFM.UFM_6.DataChk.SNDSPD_L5 131312 UFM.UFM_6.DataChk.SNDSPD_L5 131313 UFM.UFM_6.DataChk.SNDSPD_L5 131314 UFM.UFM_6.DataChk.SNDSPD_L5 131315 UFM.UFM_6.DataChk.SNDSPD_L5 131316 UFM.UFM_6.DataChk.SNDSPD_L5 131317 UFM.UFM_6.DataChk.SNDSPD_L5 131318 UFM.UFM_6.DataChk.SNDSPD_L5	13111		
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13114 UFM.UFM_6.DataChk.VALID4_PCT 13115 UFM.UFM_6.DataChk.VALID5_PCT 13116 UFM.UFM_6.DataChk.FLWVEL_L1 13117 UFM.UFM_6.DataChk.FLWVEL_L2 13118 UFM.UFM_6.DataChk.FLWVEL_L3 13119 UFM.UFM_6.DataChk.FLWVEL_L4 13120 UFM.UFM_6.DataChk.FLWVEL_L5 13121 UFM.UFM_6.DataChk.SNR1AB 13122 UFM.UFM_6.DataChk.SNR2AB 13123 UFM.UFM_6.DataChk.SNR2AB 13124 UFM.UFM_6.DataChk.SNR3AB 13125 UFM.UFM_6.DataChk.SNR5AB 13126 UFM.UFM_6.DataChk.SNDSPD_L1 13127 UFM.UFM_6.DataChk.SNDSPD_L2 13128 UFM.UFM_6.DataChk.SNDSPD_L3 13129 UFM.UFM_6.DataChk.SNDSPD_L4 13130 UFM.UFM_6.DataChk.SNDSPD_L5 13131 UFM.UFM_6.DataChk.SNDSPD_L5 13131 UFM.UFM_6.DataChk.NDLE_ALRM 13132 UFM.UFM_6.DataChk.NDLE_ALRM 13133 UFM.UFM_6.DataChk.NUM_AQRD 13134 UFM.UFM_6.DataChk.NUM_AQRD 13135 UFM.UFM_6.DataChk.SYMMTRY_ALRM 13136 UFM.UFM_6.DataChk.SJ_Diff 13137 UFM.UFM_6.DataChk.S_Diff 13137 UFM.UFM_6.DataChk.S_Diff 13138 UFM.UFM_6.DataChk.S_Diff 13137 UFM.UFM_6.DataChk.S_Diff	13113		
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13118 UFM.UFM_6.DataChk,FLWVEL_L3 13119 UFM.UFM_6.DataChk,FLWVEL_L4 13120 UFM.UFM_6.DataChk,FLWVEL_L5 13121 UFM.UFM_6.DataChk,SNR1AB 13122 UFM.UFM_6.DataChk,SNR2AB 13123 UFM.UFM_6.DataChk,SNR3AB 13124 UFM.UFM_6.DataChk,SNR4AB 13125 UFM.UFM_6.DataChk,SNBSPD_L1 13126 UFM.UFM_6.DataChk,SNDSPD_L2 13127 UFM.UFM_6.DataChk,SNDSPD_L3 13128 UFM.UFM_6.DataChk,SNDSPD_L4 13130 UFM.UFM_6.DataChk,SNDSPD_L5 13131 UFM.UFM_6.DataChk,SNDSPD_L5 13131 UFM.UFM_6.DataChk,NUM_AQRD 13132 UFM.UFM_6.DataChk,NUM_AQRD 13133 UFM.UFM_6.DataChk,SYMMTRY_ALRM 13134 UFM.UFM_6.DataChk,SYMMTRY_ALRM 13135 UFM.UFM_6.DataChk,S1_Diff 13136 UFM.UFM_6.DataChk,S2_Diff 13137 UFM.UFM_6.DataChk,S3_Diff 13138 UFM.UFM_6.DataChk,S4_Diff	13116	UFM.UFM_6.DataChk.FLWVEL_L1	
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13121 UFM.UFM_6.DataChk.SNR1AB 13122 UFM.UFM_6.DataChk.SNR2AB 13123 UFM.UFM_6.DataChk.SNR3AB 13124 UFM.UFM_6.DataChk.SNR3AB 13125 UFM.UFM_6.DataChk.SNR5AB 13126 UFM.UFM_6.DataChk.SNDSPD_L1 13127 UFM.UFM_6.DataChk.SNDSPD_L2 13128 UFM.UFM_6.DataChk.SNDSPD_L3 13129 UFM.UFM_6.DataChk.SNDSPD_L4 13130 UFM.UFM_6.DataChk.SNDSPD_L5 13131 UFM.UFM_6.DataChk.SNDSPD_L5 13131 UFM.UFM_6.DataChk.ANGLE_ALRM 13132 UFM.UFM_6.DataChk.NUM_AQRD 13133 UFM.UFM_6.DataChk.PF_ALRM 13134 UFM.UFM_6.DataChk.SYMMTRY_ALRM 13135 UFM.UFM_6.DataChk.S1_Diff 13136 UFM.UFM_6.DataChk.S2_Diff 13137 UFM.UFM_6.DataChk.S3_Diff 13138 UFM.UFM_6.DataChk.S3_Diff	13119	UFM.UFM_6.DataChk.FLWVEL_L4	
13122 UFM.UFM_6.DataChk.SNR2AB 13123 UFM.UFM_6.DataChk.SNR3AB 13124 UFM.UFM_6.DataChk.SNR4AB 13125 UFM.UFM_6.DataChk.SNR5AB 13126 UFM.UFM_6.DataChk.SNDSPD_L1 13127 UFM.UFM_6.DataChk.SNDSPD_L2 13128 UFM.UFM_6.DataChk.SNDSPD_L3 13129 UFM.UFM_6.DataChk.SNDSPD_L4 13130 UFM.UFM_6.DataChk.SNDSPD_L5 13131 UFM.UFM_6.DataChk.SNDSPD_L5 13131 UFM.UFM_6.DataChk.ANGLE_ALRM 13132 UFM.UFM_6.DataChk.NUM_AQRD 13133 UFM.UFM_6.DataChk.NUM_AQRD 13134 UFM.UFM_6.DataChk.SYMMTRY_ALRM 13135 UFM.UFM_6.DataChk.S1_Diff 13136 UFM.UFM_6.DataChk.S2_Diff 13137 UFM.UFM_6.DataChk.S3_Diff 13138 UFM.UFM_6.DataChk.S3_Diff	13120	UFM.UFM_6.DataChk.FLWVEL_L5	
13123 UFM.UFM_6.DataChk.SNR3AB 13124 UFM.UFM_6.DataChk.SNR4AB 13125 UFM.UFM_6.DataChk.SNR5AB 13126 UFM.UFM_6.DataChk.SNDSPD_L1 13127 UFM.UFM_6.DataChk.SNDSPD_L2 13128 UFM.UFM_6.DataChk.SNDSPD_L3 13129 UFM.UFM_6.DataChk.SNDSPD_L4 13130 UFM.UFM_6.DataChk.SNDSPD_L5 13131 UFM.UFM_6.DataChk.ANGLE_ALRM 13132 UFM.UFM_6.DataChk.ANGLE_ALRM 13132 UFM.UFM_6.DataChk.NUM_AQRD 13133 UFM.UFM_6.DataChk.SP_ALRM 13134 UFM.UFM_6.DataChk.SYMMTRY_ALRM 13135 UFM.UFM_6.DataChk.S1_Diff 13136 UFM.UFM_6.DataChk.S2_Diff 13137 UFM.UFM_6.DataChk.S3_Diff 13138 UFM.UFM_6.DataChk.S3_Diff 13138 UFM.UFM_6.DataChk.S4_Diff	13121	UFM.UFM_6.DataChk.SNR1AB	
13124 UFM.UFM_6.DataChk.SNR4AB 13125 UFM.UFM_6.DataChk.SNDSPD_L1 13126 UFM.UFM_6.DataChk.SNDSPD_L2 13127 UFM.UFM_6.DataChk.SNDSPD_L2 13128 UFM.UFM_6.DataChk.SNDSPD_L3 13129 UFM.UFM_6.DataChk.SNDSPD_L4 13130 UFM.UFM_6.DataChk.SNDSPD_L5 13131 UFM.UFM_6.DataChk.ANGLE_ALRM 13132 UFM.UFM_6.DataChk.NUM_AQRD 13133 UFM.UFM_6.DataChk.PF_ALRM 13134 UFM.UFM_6.DataChk.SYMMTRY_ALRM 13135 UFM.UFM_6.DataChk.S1_Diff 13136 UFM.UFM_6.DataChk.S2_Diff 13137 UFM.UFM_6.DataChk.S3_Diff 13138 UFM.UFM_6.DataChk.S4_Diff	13122	UFM.UFM_6.DataChk.SNR2AB	
13125 UFM.UFM_6.DataChk.SNR5AB 13126 UFM.UFM_6.DataChk.SNDSPD_L1 13127 UFM.UFM_6.DataChk.SNDSPD_L2 13128 UFM.UFM_6.DataChk.SNDSPD_L3 13129 UFM.UFM_6.DataChk.SNDSPD_L4 13130 UFM.UFM_6.DataChk.SNDSPD_L5 13131 UFM.UFM_6.DataChk.ANGLE_ALRM 13132 UFM.UFM_6.DataChk.NUM_AQRD 13133 UFM.UFM_6.DataChk.PF_ALRM 13134 UFM.UFM_6.DataChk.SYMMTRY_ALRM 13135 UFM.UFM_6.DataChk.S1_Diff 13136 UFM.UFM_6.DataChk.S2_Diff 13137 UFM.UFM_6.DataChk.S3_Diff 13138 UFM.UFM_6.DataChk.S4_Diff	13123	UFM.UFM_6.DataChk.SNR3AB	
13126 UFM.UFM_6.DataChk.SNDSPD_L1 13127 UFM.UFM_6.DataChk.SNDSPD_L2 13128 UFM.UFM_6.DataChk.SNDSPD_L3 13129 UFM.UFM_6.DataChk.SNDSPD_L4 13130 UFM.UFM_6.DataChk.SNDSPD_L5 13131 UFM.UFM_6.DataChk.ANGLE_ALRM 13132 UFM.UFM_6.DataChk.NUM_AQRD 13133 UFM.UFM_6.DataChk.PF_ALRM 13134 UFM.UFM_6.DataChk.SYMMTRY_ALRM 13135 UFM.UFM_6.DataChk.S1_Diff 13136 UFM.UFM_6.DataChk.S2_Diff 13137 UFM.UFM_6.DataChk.S3_Diff 13138 UFM.UFM_6.DataChk.S4_Diff	13124	UFM.UFM_6.DataChk.SNR4AB	
13127 UFM.UFM_6.DataChk.SNDSPD_L2 13128 UFM.UFM_6.DataChk.SNDSPD_L3 13129 UFM.UFM_6.DataChk.SNDSPD_L4 13130 UFM.UFM_6.DataChk.SNDSPD_L5 13131 UFM.UFM_6.DataChk.ANGLE_ALRM 13132 UFM.UFM_6.DataChk.NUM_AQRD 13133 UFM.UFM_6.DataChk.PF_ALRM 13134 UFM.UFM_6.DataChk.SYMMTRY_ALRM 13135 UFM.UFM_6.DataChk.S1_Diff 13136 UFM.UFM_6.DataChk.S2_Diff 13137 UFM.UFM_6.DataChk.S3_Diff 13138 UFM.UFM_6.DataChk.S4_Diff	13125	UFM.UFM_6.DataChk.SNR5AB	
13128 UFM.UFM_6.DataChk.SNDSPD_L3 13129 UFM.UFM_6.DataChk.SNDSPD_L4 13130 UFM.UFM_6.DataChk.SNDSPD_L5 13131 UFM.UFM_6.DataChk.ANGLE_ALRM 13132 UFM.UFM_6.DataChk.NUM_AQRD 13133 UFM.UFM_6.DataChk.PF_ALRM 13134 UFM.UFM_6.DataChk.SYMMTRY_ALRM 13135 UFM.UFM_6.DataChk.S1_Diff 13136 UFM.UFM_6.DataChk.S2_Diff 13137 UFM.UFM_6.DataChk.S3_Diff 13138 UFM.UFM_6.DataChk.S4_Diff	13126	UFM.UFM_6.DataChk.SNDSPD_L1	
13129 UFM.UFM_6.DataChk.SNDSPD_L4 13130 UFM.UFM_6.DataChk.SNDSPD_L5 13131 UFM.UFM_6.DataChk.ANGLE_ALRM 13132 UFM.UFM_6.DataChk.NUM_AQRD 13133 UFM.UFM_6.DataChk.PF_ALRM 13134 UFM.UFM_6.DataChk.SYMMTRY_ALRM 13135 UFM.UFM_6.DataChk.S1_Diff 13136 UFM.UFM_6.DataChk.S2_Diff 13137 UFM.UFM_6.DataChk.S3_Diff 13138 UFM.UFM_6.DataChk.S4_Diff	13127	UFM.UFM_6.DataChk.SNDSPD_L2	
13130 UFM.UFM_6.DataChk.SNDSPD_L5 13131 UFM.UFM_6.DataChk.ANGLE_ALRM 13132 UFM.UFM_6.DataChk.NUM_AQRD 13133 UFM.UFM_6.DataChk.PF_ALRM 13134 UFM.UFM_6.DataChk.SYMMTRY_ALRM 13135 UFM.UFM_6.DataChk.S1_Diff 13136 UFM.UFM_6.DataChk.S2_Diff 13137 UFM.UFM_6.DataChk.S3_Diff 13138 UFM.UFM_6.DataChk.S4_Diff	13128	UFM.UFM_6.DataChk.SNDSPD_L3	
13131 UFM.UFM_6.DataChk.ANGLE_ALRM 13132 UFM.UFM_6.DataChk.NUM_AQRD 13133 UFM.UFM_6.DataChk.PF_ALRM 13134 UFM.UFM_6.DataChk.SYMMTRY_ALRM 13135 UFM.UFM_6.DataChk.S1_Diff 13136 UFM.UFM_6.DataChk.S2_Diff 13137 UFM.UFM_6.DataChk.S3_Diff 13138 UFM.UFM_6.DataChk.S4_Diff	13129	UFM.UFM_6.DataChk.SNDSPD_L4	
13132 UFM.UFM_6.DataChk.NUM_AQRD 13133 UFM.UFM_6.DataChk.PF_ALRM 13134 UFM.UFM_6.DataChk.SYMMTRY_ALRM 13135 UFM.UFM_6.DataChk.S1_Diff 13136 UFM.UFM_6.DataChk.S2_Diff 13137 UFM.UFM_6.DataChk.S3_Diff 13138 UFM.UFM_6.DataChk.S4_Diff	13130	UFM.UFM_6.DataChk.SNDSPD_L5	
13133 UFM.UFM_6.DataChk.PF_ALRM 13134 UFM.UFM_6.DataChk.SYMMTRY_ALRM 13135 UFM.UFM_6.DataChk.S1_Diff 13136 UFM.UFM_6.DataChk.S2_Diff 13137 UFM.UFM_6.DataChk.S3_Diff 13138 UFM.UFM_6.DataChk.S4_Diff	13131	UFM.UFM_6.DataChk.ANGLE_ALRM	
13134 UFM.UFM_6.DataChk.SYMMTRY_ALRM 13135 UFM.UFM_6.DataChk.S1_Diff 13136 UFM.UFM_6.DataChk.S2_Diff 13137 UFM.UFM_6.DataChk.S3_Diff 13138 UFM.UFM_6.DataChk.S4_Diff	13132	UFM.UFM_6.DataChk.NUM_AQRD	
13135 UFM.UFM_6.DataChk.S1_Diff 13136 UFM.UFM_6.DataChk.S2_Diff 13137 UFM.UFM_6.DataChk.S3_Diff 13138 UFM.UFM_6.DataChk.S4_Diff	13133	UFM.UFM_6.DataChk.PF_ALRM	
13136 UFM.UFM_6.DataChk.S2_Diff 13137 UFM.UFM_6.DataChk.S3_Diff 13138 UFM.UFM_6.DataChk.S4_Diff	13134	UFM.UFM_6.DataChk.SYMMTRY_ALRM	
13137 UFM.UFM_6.DataChk.S3_Diff 13138 UFM.UFM_6.DataChk.S4_Diff	13135	UFM.UFM_6.DataChk.S1_Diff	
13138 UFM.UFM_6.DataChk.S4_Diff	13136	UFM.UFM_6.DataChk.S2_Diff	
	13137	UFM.UFM_6.DataChk.S3_Diff	
13139 UFM.UFM_6.DataChk.S5_Diff	13138		
	13139	UFM.UFM_6.DataChk.S5_Diff	

13140	UFM.UFM_6.DataChk.FLWVEL_R1	
13141	UFM.UFM_6.DataChk.FLWVEL_R2	
13142	UFM.UFM_6.DataChk.FLWVEL_R3	
13143	UFM.UFM_6.DataChk.FLWVEL_R4	
13144	UFM.UFM_6.DataChk.FLWVEL_R5	
13145	UFM.UFM_6.DataChk.ZF_Test	
13146	UFM.UFM_6.DataChk.Path1_Status	
13147	UFM.UFM_6.DataChk.Path2_Status	
13148	UFM.UFM_6.DataChk.Path3_Status	
13149	UFM.UFM_6.DataChk.Path4_Status	
13150	UFM.UFM_6.DataChk.Path5_Status	
13151	UFM.UFM_6.DataChk.Meter_Status	
13152	UFM.UFM_6.DataChk.Meter_Prfrmnc	
13153	UFM.UFM_6.DataChk.Meter_Stable	
13154	UFM.UFM_6.DataChk.AGC13_DLTA	
13155	UFM.UFM_6.DataChk.AGC15_DLTA	
13156	UFM.UFM_6.DataChk.AGC24_DLTA	
13157	UFM.UFM_6.DataChk.AGC35_DLTA	
13158	UFM.UFM_6.DataChk.AGCDLT_1A1B	
13159	UFM.UFM_6.DataChk.AGCDLT_2A2B	
13160	UFM.UFM_6.DataChk.AGCDLT_3A3B	
13161	UFM.UFM_6.DataChk.AGCDLT_4A4B	
13162	UFM.UFM_6.DataChk.AGCDLT_5A5B	
13163	UFM.UFM_6.DataChk.AVGAGC_1A1B	
13164	UFM.UFM_6.DataChk.AVGAGC_2A2B	
13165	UFM.UFM_6.DataChk.AVGAGC_3A3B	
13166	UFM.UFM_6.DataChk.AVGAGC_4A4B	
13167	UFM.UFM_6.DataChk.AVGAGC_5A5B	
13168	UFM.UFM_6.DataChk.PF_Hi	
13169	UFM.UFM_6.DataChk.PF_Lo	
13170	UFM.UFM_6.DataChk.SYMMTRY_Hi	
13171	UFM.UFM_6.DataChk.SYMMTRY_Lo	
13172	UFM.UFM_6.DataChk.ANGLE_Hi	
13173	UFM.UFM_6.DataChk.ANGLE_Lo	
13174	UFM.UFM_6.DataChk.VALPCT_L	
13175	UFM.UFM_6.DataChk.SNR_Lo	
13176	UFM.UFM_6.DataChk.AGCIA_Hi	

13177	UFM.UFM_6.DataChk.AGCOS_Hi	
13178	UFM.UFM_6.DataChk.SOS_Hi	
13179	UFM.UFM_6.DataChk.SOS_Lo	
13180	UFM.UFM_6.DataChk.VoG_Hi	
13181	UFM.UFM_6.DataChk.VoG_Lo	
13182	UFM.UFM_6.DataChk.SOSDiff_Hi	
13183	UFM.UFM_6.DataChk.ZF_Test_Hi	
13184	UFM.UFM_6.DataChk.Trblncl_Hi	
13185	UFM.UFM_6.DataChk.TrblncO_Hi	
13186	UFM.UFM_6.DataChk.Comm_Lo	
13187	UFM.UFM_6.DataChk.AvgFlowVel_MaxChng	
13188	UFM.UFM_6.DataValid_Cutoff	
13189	UFM.UFM_7_PORT	CWM Master Port connected to Ultrasonic Meter n
13190	UFM.UFM_7_ADDRESS	Address of Ultrasonic Meter n
13191	UFM.UFM_7_TYPE	Ultrasonic Meter n Type
13192	UFM.UFM_7.AVGSOS	Ultrasonic Meter n average Speed of Sound (SOS) - all paths
13193	UFM.UFM_7.SOS1	Ultrasonic Meter n Speed of Sound (SOS) path 1
13194	UFM.UFM_7.SOS2	Ultrasonic Meter n Speed of Sound (SOS) path 2
13195	UFM.UFM_7.SOS3	Ultrasonic Meter n Speed of Sound (SOS) path 3
13196	UFM.UFM_7.SOS4	Ultrasonic Meter n Speed of Sound (SOS) path 4
13197	UFM.UFM_7.SOS5	Ultrasonic Meter n Speed of Sound (SOS) path 5
13198	MB.SPARE	Ultrasonic Meter n Profile
13199	UFM.UFM_7.SYSTEMSTATUS	Ultrasonic Meter status
13200	UFM.UFM_7.GAIN1A	Ultrasonic Meter gain A path 1
13201	UFM.UFM_7.GAIN2A	Ultrasonic Meter gain A path 2
13202	UFM.UFM_7.GAIN3A	Ultrasonic Meter gain A path 3
13203	UFM.UFM_7.GAIN4A	Ultrasonic Meter gain A path 4
13204	UFM.UFM_7.GAIN5A	Ultrasonic Meter gain A path 5
13205	UFM.UFM_7.GAIN1B	Ultrasonic Meter gain B path 1
13206	UFM.UFM_7.GAIN2B	Ultrasonic Meter gain B path 2
13207	UFM.UFM_7.GAIN3B	Ultrasonic Meter gain B path 3
13208	UFM.UFM_7.GAIN4B	Ultrasonic Meter gain B path 4
13209	UFM.UFM_7.GAIN5B	Ultrasonic Meter gain B path 5

		CWM Master Port connected to Ultrasonic
13210	UFM.UFM_8_PORT	Meter n
13211	UFM.UFM_8_ADDRESS	Address of Ultrasonic Meter n
13212	UFM.UFM_8_TYPE	Ultrasonic Meter n Type
13213	UFM.UFM_8.AVGSOS	Ultrasonic Meter n average Speed of Sound (SOS) - all paths
13214	UFM.UFM_8.SOS1	Ultrasonic Meter n Speed of Sound (SOS) path 1
13215	UFM.UFM_8.SOS2	Ultrasonic Meter n Speed of Sound (SOS) path 2
13216	UFM.UFM_8.SOS3	Ultrasonic Meter n Speed of Sound (SOS) path 3
13217	UFM.UFM_8.SOS4	Ultrasonic Meter n Speed of Sound (SOS) path 4
13218	UFM.UFM_8.SOS5	Ultrasonic Meter n Speed of Sound (SOS) path 5
13219	MB.SPARE	Ultrasonic Meter n Profile
13220	UFM.UFM_8.SYSTEMSTATUS	Ultrasonic Meter status
13221	UFM.UFM_8.GAIN1A	Ultrasonic Meter gain A path 1
13222	UFM.UFM_8.GAIN2A	Ultrasonic Meter gain A path 2
13223	UFM.UFM_8.GAIN3A	Ultrasonic Meter gain A path 3
13224	UFM.UFM_8.GAIN4A	Ultrasonic Meter gain A path 4
13225	UFM.UFM_8.GAIN5A	Ultrasonic Meter gain A path 5
13226	UFM.UFM_8.GAIN1B	Ultrasonic Meter gain B path 1
13227	UFM.UFM_8.GAIN2B	Ultrasonic Meter gain B path 2
13228	UFM.UFM_8.GAIN3B	Ultrasonic Meter gain B path 3
13229	UFM.UFM_8.GAIN4B	Ultrasonic Meter gain B path 4
13230	UFM.UFM_8.GAIN5B	Ultrasonic Meter gain B path 5
13231	UFM.UFM_7.Kfact	
13232	UFM.UFM_7.SwirlAngle	
13233	UFM.UFM_7.SNR1A	
13234	UFM.UFM_7.SNR1B	
13235	UFM.UFM_7.SNR2A	
13236	UFM.UFM_7.SNR2B	
13237	UFM.UFM_7.SNR3A	
13238	UFM.UFM_7.SNR3B	
13239	UFM.UFM_7.SNR4A	
13240	UFM.UFM_7.SNR4B	
13241	UFM.UFM_7.SNR5A	
13242	UFM.UFM_7.SNR5B	

13243	UFM.UFM_7.UCFlow_MCFD	
13244	UFM.UFM_7.InstType	
13245	UFM.UFM_7.Paths	
13246	UFM.UFM_7.SampleRate	
13247	UFM.UFM_7.VSamplesL1	
13248	UFM.UFM_7.VSamplesL2	
13249	UFM.UFM_7.VSamplesL3	
13250	UFM.UFM_7.VSamplesL4	
13251	UFM.UFM_7.VSamplesL5	
13252	UFM.UFM_7.GainLim1A	
13253	UFM.UFM_7.GainLim1B	
13254	UFM.UFM_7.GainLim2A	
13255	UFM.UFM_7.GainLim2B	
13256	UFM.UFM_7.GainLim3A	
13257	UFM.UFM_7.GainLim3B	
13258	UFM.UFM_7.GainLim4A	
13259	UFM.UFM_7.GainLim4B	
13260	UFM.UFM_7.GainLim5A	
13261	UFM.UFM_7.GainLim5B	
13262	UFM.UFM_7.SysStatusV	
13263	UFM.UFM_7.SysStatusC	
13264	UFM.UFM_7.CheckSum	
13265	UFM.UFM_7.Mode	
13266	UFM.UFM_7.CFlow_MCFD	
13267	UFM.UFM_7.FailureRate1	
13268	UFM.UFM_7.FailureRate2	
13269	UFM.UFM_7.FailureRate3	
13270	UFM.UFM_7.FailureRate4	
13271	UFM.UFM_7.PctGoodA1	
13272	UFM.UFM_7.PctGoodB1	
13273		
13274		
13275		
13276	_	
13277		
13278		
13279	UFM.UFM_7.Delay	

13280	UFM.UFM_7.Turbulence1	
13281	UFM.UFM_7.Turbulence2	
13282	UFM.UFM_7.Turbulence3	
13283	UFM.UFM_7.Turbulence4	
13284	UFM.UFM_7.Monitor_Count	
13285	UFM.UFM_7.PCT_Good	
13286	UFM.UFM_7.Good_Polls	
13287	UFM.UFM_7.Bad_Polls	
13288	UFM.UFM_7.DataChk.VALID1_PCT	
13289	UFM.UFM_7.DataChk.VALID2_PCT	
13290	UFM.UFM_7.DataChk.VALID3_PCT	
13291	UFM.UFM_7.DataChk.VALID4_PCT	
13292	UFM.UFM_7.DataChk.VALID5_PCT	
13293	UFM.UFM_7.DataChk.FLWVEL_L1	
13294	UFM.UFM_7.DataChk.FLWVEL_L2	
13295	UFM.UFM_7.DataChk.FLWVEL_L3	
13296	UFM.UFM_7.DataChk.FLWVEL_L4	
13297	UFM.UFM_7.DataChk.FLWVEL_L5	
13298	UFM.UFM_7.DataChk.SNR1AB	
13299	UFM.UFM_7.DataChk.SNR2AB	
13300	UFM.UFM_7.DataChk.SNR3AB	
13301	UFM.UFM_7.DataChk.SNR4AB	
13302	UFM.UFM_7.DataChk.SNR5AB	
13303	UFM.UFM_7.DataChk.SNDSPD_L1	
13304	UFM.UFM_7.DataChk.SNDSPD_L2	
13305	UFM.UFM_7.DataChk.SNDSPD_L3	
13306	UFM.UFM_7.DataChk.SNDSPD_L4	
13307	UFM.UFM_7.DataChk.SNDSPD_L5	
13308	UFM.UFM_7.DataChk.ANGLE_ALRM	
13309	UFM.UFM_7.DataChk.NUM_AQRD	
13310	UFM.UFM_7.DataChk.PF_ALRM	
13311	UFM.UFM_7.DataChk.SYMMTRY_ALRM	
13312	UFM.UFM_7.DataChk.S1_Diff	
13313	UFM.UFM_7.DataChk.S2_Diff	
13314	UFM.UFM_7.DataChk.S3_Diff	
13315	UFM.UFM_7.DataChk.S4_Diff	
13316	UFM.UFM_7.DataChk.S5_Diff	

13318 UFM.UFM_T.DataChk.FLWVEL_R2 13319 UFM.UFM_T.DataChk.FLWVEL_R3 13320 UFM.UFM_T.DataChk.FLWVEL_R4 13321 UFM.UFM_T.DataChk.FLWVEL_R5 13322 UFM.UFM_T.DataChk.Fath_Status 13323 UFM.UFM_T.DataChk.Path_Status 13324 UFM.UFM_T.DataChk.Path_Status 13325 UFM.UFM_T.DataChk.Path_Status 13326 UFM.UFM_T.DataChk.Path_Status 13327 UFM.UFM_T.DataChk.Path_Status 13328 UFM.UFM_T.DataChk.Meter_Status 13329 UFM.UFM_T.DataChk.Meter_Status 13329 UFM.UFM_T.DataChk.Meter_Status 13330 UFM.UFM_T.DataChk.Meter_Status 13331 UFM.UFM_T.DataChk.Meter_Status 13332 UFM.UFM_T.DataChk.AGC13_DLTA 13333 UFM.UFM_T.DataChk.AGC15_DLTA 13334 UFM.UFM_T.DataChk.AGC24_DLTA 13335 UFM.UFM_T.DataChk.AGC35_DLTA 13336 UFM.UFM_T.DataChk.AGC35_DLTA 13337 UFM.UFM_T.DataChk.AGC35_DLTA 13338 UFM.UFM_T.DataChk.AGC35_DLTA 13339 UFM.UFM_T.DataChk.AGC35_DLTA 13330 UFM.UFM_T.DataChk.AGC35_DLTA 13331 UFM.UFM_T.DataChk.AGC35_DLTA 13332 UFM.UFM_T.DataChk.AGC35_DLTA 13333 UFM.UFM_T.DataChk.AGC35_DLTA 13334 UFM.UFM_T.DataChk.AGC36_TA1B 13339 UFM.UFM_T.DataChk.AGC36_TA4B 13340 UFM.UFM_T.DataChk.AGGAC_TA1B 13341 UFM.UFM_T.DataChk.AVGAGC_TA1B 13341 UFM.UFM_T.DataChk.AVGAGC_TA1B 13342 UFM.UFM_T.DataChk.AVGAGC_TA1B 13343 UFM.UFM_T.DataChk.AVGAGC_TA1B 13344 UFM.UFM_T.DataChk.AVGAGC_TA1B 13345 UFM.UFM_T.DataChk.AVGAGC_TA1B 13346 UFM.UFM_T.DataChk.AVGAGC_TA1B 13347 UFM.UFM_T.DataChk.AVGAGC_TA1B 13348 UFM.UFM_T.DataChk.AVGAGC_TA1B 13349 UFM.UFM_T.DataChk.AVGAGC_TA1B 13340 UFM.UFM_T.DataChk.AVGAGC_TA1B 13341 UFM.UFM_T.DataChk.AVGAGC_TA1B 13342 UFM.UFM_T.DataChk.AVGAGC_TA1B 13343 UFM.UFM_T.DataChk.AVGAGC_TA1B 13344 UFM.UFM_T.DataChk.AVGAGC_TA1B 13345 UFM.UFM_T.DataChk.AVGAGC_TA1B 13346 UFM.UFM_T.DataChk.AVGAGC_TA1B 13347 UFM.UFM_T.DataChk.AVGAGC_TA1B 13348 UFM.UFM_T.DataChk.AVGAGC_TA1B 1334	13317	UFM.UFM_7.DataChk.FLWVEL_R1	
13319 UFM.UFM_7.DataChk.FLWVEL_R3 13320 UFM.UFM_7.DataChk.FLWVEL_R4 13321 UFM.UFM_7.DataChk.FLWVEL_R5 13322 UFM.UFM_7.DataChk.ZF_Test 13323 UFM.UFM_7.DataChk.Path_Status 13324 UFM.UFM_7.DataChk.Path_Status 13325 UFM.UFM_7.DataChk.Path_Status 13326 UFM.UFM_7.DataChk.Path_Status 13327 UFM.UFM_7.DataChk.Path_Status 13328 UFM.UFM_7.DataChk.Meter_Status 13329 UFM.UFM_7.DataChk.Meter_Firmnc 13330 UFM.UFM_7.DataChk.Meter_Stable 13331 UFM.UFM_7.DataChk.AGC13_DLTA 13332 UFM.UFM_7.DataChk.AGC15_DLTA 13333 UFM.UFM_7.DataChk.AGC24_DLTA 13333 UFM.UFM_7.DataChk.AGCDLT_1A1B 13334 UFM.UFM_7.DataChk.AGCDLT_2A2B 13335 UFM.UFM_7.DataChk.AGCDLT_4A4B 13339 UFM.UFM_7.DataChk.AGCDLT_4A4B 13339 UFM.UFM_7.DataChk.AVGAGC_1A1B 13341 UFM.UFM_7.DataChk.AVGAGC_5A5B 13342 UFM.UFM_7.DataChk.AVGAGC_5A5B 13343 UFM.UFM_7.DataChk.AVGAGC_5A5B <tr< td=""><td></td><td></td><td></td></tr<>			
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13326 UFM.UFM_7.DataChk.Path4_Status 13327 UFM.UFM_7.DataChk.Path5_Status 13328 UFM.UFM_7.DataChk.Meter_Status 13329 UFM.UFM_7.DataChk.Meter_Pffrmnc 13330 UFM.UFM_7.DataChk.Meter_Stable 13331 UFM.UFM_7.DataChk.AGC13_DLTA 13332 UFM.UFM_7.DataChk.AGC13_DLTA 13333 UFM.UFM_7.DataChk.AGC24_DLTA 13334 UFM.UFM_7.DataChk.AGC35_DLTA 13335 UFM.UFM_7.DataChk.AGC35_DLTA 13336 UFM.UFM_7.DataChk.AGCDLT_1A1B 13337 UFM.UFM_7.DataChk.AGCDLT_2A2B 13337 UFM.UFM_7.DataChk.AGCDLT_3A3B 13338 UFM.UFM_7.DataChk.AGCDLT_3A3B 13339 UFM.UFM_7.DataChk.AGCDLT_5A5B 13340 UFM.UFM_7.DataChk.AGCDLT_5A5B 13341 UFM.UFM_7.DataChk.AVGAGC_1A1B 13341 UFM.UFM_7.DataChk.AVGAGC_2A2B 13342 UFM.UFM_7.DataChk.AVGAGC_3A3B 13343 UFM.UFM_7.DataChk.AVGAGC_5A5B 13344 UFM.UFM_7.DataChk.AVGAGC_5A5B 13345 UFM.UFM_7.DataChk.AVGAGC_5A5B 13346 UFM.UFM_7.DataChk.PF_Hi 13347 UFM.UFM_7.DataChk.PF_Lo 13348 UFM.UFM_7.DataChk.SYMMTRY_Hi 13349 UFM.UFM_7.DataChk.SYMMTRY_Lo 13349 UFM.UFM_7.DataChk.ANGLE_Hi 13350 UFM.UFM_7.DataChk.ANGLE_Lo 13351 UFM.UFM_7.DataChk.NAGLE_Lo	13324	UFM.UFM_7.DataChk.Path2_Status	
13327 UFM.UFM_7.DataChk.Path5_Status 13328 UFM.UFM_7.DataChk.Meter_Status 13329 UFM.UFM_7.DataChk.Meter_Prfrmnc 13330 UFM.UFM_7.DataChk.Meter_Stable 13331 UFM.UFM_7.DataChk.AGC13_DLTA 13332 UFM.UFM_7.DataChk.AGC15_DLTA 13333 UFM.UFM_7.DataChk.AGC24_DLTA 13334 UFM.UFM_7.DataChk.AGC24_DLTA 13335 UFM.UFM_7.DataChk.AGC35_DLTA 13336 UFM.UFM_7.DataChk.AGCDLT_1A1B 13337 UFM.UFM_7.DataChk.AGCDLT_2A2B 13337 UFM.UFM_7.DataChk.AGCDLT_3A3B 13338 UFM.UFM_7.DataChk.AGCDLT_3A3B 13339 UFM.UFM_7.DataChk.AGCDLT_5A5B 13340 UFM.UFM_7.DataChk.AGCDLT_5A5B 13341 UFM.UFM_7.DataChk.AVGAGC_1A1B 13341 UFM.UFM_7.DataChk.AVGAGC_1A1B 13342 UFM.UFM_7.DataChk.AVGAGC_3A3B 13343 UFM.UFM_7.DataChk.AVGAGC_5A5B 13344 UFM.UFM_7.DataChk.AVGAGC_5A5B 13345 UFM.UFM_7.DataChk.AVGAGC_5A5B 13346 UFM.UFM_7.DataChk.AVGAGC_5A5B 13347 UFM.UFM_7.DataChk.PF_L0 13348 UFM.UFM_7.DataChk.SYMMTRY_HI 13349 UFM.UFM_7.DataChk.SYMMTRY_L0 13349 UFM.UFM_7.DataChk.ANGLE_Hi 13350 UFM.UFM_7.DataChk.ANGLE_L0 13351 UFM.UFM_7.DataChk.NALPCT_L 13352 UFM.UFM_7.DataChk.NALPCT_L	13325	UFM.UFM_7.DataChk.Path3_Status	
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13352 UFM.UFM_7.DataChk.SNR_Lo			
	13351		
13353 UFM.UFM_7.DataChk.AGCIA_Hi			
	13353	UFM.UFM_7.DataChk.AGCIA_Hi	

13354	UFM.UFM_7.DataChk.AGCOS_Hi	
13355	UFM.UFM_7.DataChk.SOS_Hi	
13356	UFM.UFM_7.DataChk.SOS_Lo	
13357	UFM.UFM_7.DataChk.VoG_Hi	
13358	UFM.UFM_7.DataChk.VoG_Lo	
13359	UFM.UFM_7.DataChk.SOSDiff_Hi	
13360	UFM.UFM_7.DataChk.ZF_Test_Hi	
13361	UFM.UFM_7.DataChk.Trblncl_Hi	
13362	UFM.UFM_7.DataChk.TrblncO_Hi	
13363	UFM.UFM_7.DataChk.Comm_Lo	
13364	UFM.UFM_7.DataChk.AvgFlowVel_MaxChng	
13365	UFM.UFM_7.DataValid_Cutoff	
13366	UFM.UFM_8.Kfact	
13367	UFM.UFM_8.SwirlAngle	
13368	UFM.UFM_8.SNR1A	
13369	UFM.UFM_8.SNR1B	
13370	UFM.UFM_8.SNR2A	
13371	UFM.UFM_8.SNR2B	
13372	UFM.UFM_8.SNR3A	
13373	UFM.UFM_8.SNR3B	
13374	UFM.UFM_8.SNR4A	
13375	UFM.UFM_8.SNR4B	
13376	UFM.UFM_8.SNR5A	
13377	UFM.UFM_8.SNR5B	
13378	UFM.UFM_8.UCFlow_MCFD	
13379	UFM.UFM_8.InstType	
13380	UFM.UFM_8.Paths	
13381	UFM.UFM_8.SampleRate	
13382	UFM.UFM_8.VSamplesL1	
13383	UFM.UFM_8.VSamplesL2	
13384	UFM.UFM_8.VSamplesL3	
13385	UFM.UFM_8.VSamplesL4	
13386	UFM.UFM_8.VSamplesL5	
13387	UFM.UFM_8.GainLim1A	
13388	UFM.UFM_8.GainLim1B	
13389	UFM.UFM_8.GainLim2A	
13390	UFM.UFM_8.GainLim2B	

13391	UFM.UFM_8.GainLim3A	
13392	UFM.UFM_8.GainLim3B	
13392	UFM.UFM_8.GainLim4A	
13393		
	UFM.UFM_8.GainLim4B	
13395	UFM.UFM_8.GainLim5A	
13396	UFM.UFM_8.GainLim5B	
13397	UFM.UFM_8.SysStatusV	
13398	UFM.UFM_8.SysStatusC	
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13400	UFM.UFM_8.Mode	
13401	UFM.UFM_8.CFlow_MCFD	
13402	UFM.UFM_8.FailureRate1	
13403	UFM.UFM_8.FailureRate2	
13404	UFM.UFM_8.FailureRate3	
13405	UFM.UFM_8.FailureRate4	
13406	UFM.UFM_8.PctGoodA1	
13407	UFM.UFM_8.PctGoodB1	
13408	UFM.UFM_8.PctGoodC1	
13409	UFM.UFM_8.PctGoodD1	
13410	UFM.UFM_8.PctGoodA2	
13411	UFM.UFM_8.PctGoodB2	
13412	UFM.UFM_8.PctGoodC2	
13413	UFM.UFM_8.PctGoodD2	
13414	UFM.UFM_8.Delay	
13415	UFM.UFM_8.Turbulence1	
13416	UFM.UFM_8.Turbulence2	
13417	UFM.UFM_8.Turbulence3	
13418	UFM.UFM_8.Turbulence4	
13419	UFM.UFM_8.Monitor_Count	
13420	UFM.UFM_8.PCT_Good	
13421	UFM.UFM_8.Good_Polls	
13422	UFM.UFM_8.Bad_Polls	
13423	UFM.UFM_8.DataChk.VALID1_PCT	
13424	UFM.UFM_8.DataChk.VALID2_PCT	
13425	UFM.UFM_8.DataChk.VALID3_PCT	
13426	UFM.UFM_8.DataChk.VALID4_PCT	
13427	UFM.UFM_8.DataChk.VALID5_PCT	
L		

13428	UFM.UFM_8.DataChk.FLWVEL_L1	
13429	UFM.UFM_8.DataChk.FLWVEL_L2	
13430	UFM.UFM_8.DataChk.FLWVEL_L3	
13431	UFM.UFM_8.DataChk.FLWVEL_L4	
13432	UFM.UFM_8.DataChk.FLWVEL_L5	
13433	UFM.UFM_8.DataChk.SNR1AB	
13434	UFM.UFM_8.DataChk.SNR2AB	
13435	UFM.UFM_8.DataChk.SNR3AB	
13436	UFM.UFM_8.DataChk.SNR4AB	
13437	UFM.UFM_8.DataChk.SNR5AB	
13438	UFM.UFM_8.DataChk.SNDSPD_L1	
13439	UFM.UFM_8.DataChk.SNDSPD_L2	
13440	UFM.UFM_8.DataChk.SNDSPD_L3	
13441	UFM.UFM_8.DataChk.SNDSPD_L4	
13442	UFM.UFM_8.DataChk.SNDSPD_L5	
13443	UFM.UFM_8.DataChk.ANGLE_ALRM	
13444	UFM.UFM_8.DataChk.NUM_AQRD	
13445	UFM.UFM_8.DataChk.PF_ALRM	
13446	UFM.UFM_8.DataChk.SYMMTRY_ALRM	
13447	UFM.UFM_8.DataChk.S1_Diff	
13448	UFM.UFM_8.DataChk.S2_Diff	
13449	UFM.UFM_8.DataChk.S3_Diff	
13450	UFM.UFM_8.DataChk.S4_Diff	
13451	UFM.UFM_8.DataChk.S5_Diff	
13452	UFM.UFM_8.DataChk.FLWVEL_R1	
13453	UFM.UFM_8.DataChk.FLWVEL_R2	
13454	UFM.UFM_8.DataChk.FLWVEL_R3	
13455	UFM.UFM_8.DataChk.FLWVEL_R4	
13456	UFM.UFM_8.DataChk.FLWVEL_R5	
13457	UFM.UFM_8.DataChk.ZF_Test	
13458	UFM.UFM_8.DataChk.Path1_Status	
13459	UFM.UFM_8.DataChk.Path2_Status	
13460	UFM.UFM_8.DataChk.Path3_Status	
13461	UFM.UFM_8.DataChk.Path4_Status	
13462	UFM.UFM_8.DataChk.Path5_Status	
13463	UFM.UFM_8.DataChk.Meter_Status	
13464	UFM.UFM_8.DataChk.Meter_Prfrmnc	

13465	UFM.UFM_8.DataChk.Meter_Stable	
13466	UFM.UFM_8.DataChk.AGC13_DLTA	
13467	UFM.UFM_8.DataChk.AGC15_DLTA	
13468	UFM.UFM_8.DataChk.AGC24_DLTA	
13469	UFM.UFM_8.DataChk.AGC35_DLTA	
13470	UFM.UFM_8.DataChk.AGCDLT_1A1B	
13471	UFM.UFM_8.DataChk.AGCDLT_2A2B	
13472	UFM.UFM_8.DataChk.AGCDLT_3A3B	
13473	UFM.UFM_8.DataChk.AGCDLT_4A4B	
13474	UFM.UFM_8.DataChk.AGCDLT_5A5B	
13475	UFM.UFM_8.DataChk.AVGAGC_1A1B	
13476	UFM.UFM_8.DataChk.AVGAGC_2A2B	
13477	UFM.UFM_8.DataChk.AVGAGC_3A3B	
13478	UFM.UFM_8.DataChk.AVGAGC_4A4B	
13479		
13480		
13481	UFM.UFM_8.DataChk.PF_Lo	
13482		
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13490		
13491	UFM.UFM_8.DataChk.SOS_Lo	
13492		
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13497	UFM.UFM_8.DataChk.TrblncO_Hi	
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13499		
13500		
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13503	CRR.MB_Corr1.StatusC	
13504	CRR.MB_Corr1.StatusD	
13505	CRR.MB_Corr1.StatusE	
13506	CRR.MB_Corr1.StatusF	
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13508	CRR.MB_Corr1.MassFlowRate	
13509	CRR.MB_Corr1.Density	
13510	CRR.MB_Corr1.Temp	
13511	CRR.MB_Corr1.VolFlowRate	
13512	CRR.MB_Corr1.Press	
13513	CRR.MB_Corr1.MassTotal	
13514	CRR.MB_Corr1.VolTotal	
13515	CRR.MB_Corr1.MassInvtry	
13516	CRR.MB_Corr1.VolInvtry	
13517	CRR.MB_Corr1.PressCorrFlow	
13518	CRR.MB_Corr1.PressCorrDens	
13519	CRR.MB_Corr1.FlowCalibPress	
13520	CRR.MB_Corr1.PressInpZero	
13521	CRR.MB_Corr1.PressInpSpan	
13522	CRR.MB_Corr1.DensityCalib	
13523	CRR.MB_Corr1.MassFRMF	
13524	CRR.MB_Corr1.VolFRMF	
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13528	CRR.MB_Corr1.RghtPickVolt	
13529	CRR.MB_Corr1.DriveGain	
13530	CRR.MB_Corr1.MassFlowZero	
13531	CRR.MB_Corr2.StatusA	
13532	CRR.MB_Corr2.StatusB	
13533	CRR.MB_Corr2.StatusC	
13534	CRR.MB_Corr2.StatusD	
13535	CRR.MB_Corr2.StatusE	
13536	CRR.MB_Corr2.StatusF	
13537	CRR.MB_Corr2.HighSvrtyAlrm	
13538	CRR.MB_Corr2.MassFlowRate	

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13540	CRR.MB_Corr2.Temp	
13541	CRR.MB_Corr2.VolFlowRate	
13542	CRR.MB_Corr2.Press	
13543	CRR.MB_Corr2.MassTotal	
13544	CRR.MB_Corr2.VolTotal	
13545	CRR.MB_Corr2.MassInvtry	
13546	CRR.MB_Corr2.VolInvtry	
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13549	CRR.MB_Corr2.FlowCalibPress	
13550	CRR.MB_Corr2.PressInpZero	
13551	CRR.MB_Corr2.PressInpSpan	
13552	CRR.MB_Corr2.DensityCalib	
13553	CRR.MB_Corr2.MassFRMF	
13554	CRR.MB_Corr2.VolFRMF	
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13558	CRR.MB_Corr2.RghtPickVolt	
13559	CRR.MB_Corr2.DriveGain	
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13562	CRR.MB_Corr3.StatusB	
13563		
13564	CRR.MB_Corr3.StatusD	
13565	CRR.MB_Corr3.StatusE	
13566	CRR.MB_Corr3.StatusF	
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13569	CRR.MB_Corr3.Density	
13570	CRR.MB_Corr3.Temp	
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13574	CRR.MB_Corr3.VolTotal	
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13576	CRR.MB_Corr3.VolInvtry	
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	CRR.MB Corr3.PressCorrDens	
	CRR.MB_Corr3.FlowCalibPress	
	CRR.MB Corr3.PressInpZero	
13581	CRR.MB Corr3.PressInpSpan	
13582	CRR.MB_Corr3.DensityCalib	
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13584	CRR.MB_Corr3.VolFRMF	
13585	CRR.MB_Corr3.DensityMF	
13586	CRR.MB_Corr3.RawTubeFreq	
13587	CRR.MB_Corr3.LeftPickVolt	
13588	CRR.MB_Corr3.RghtPickVolt	
13589	CRR.MB_Corr3.DriveGain	
13590	CRR.MB_Corr3.MassFlowZero	
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13592	CRR.MB_Corr4.StatusB	
13593	CRR.MB_Corr4.StatusC	
13594	CRR.MB_Corr4.StatusD	
13595	CRR.MB_Corr4.StatusE	
13596	CRR.MB_Corr4.StatusF	
13597	CRR.MB_Corr4.HighSvrtyAlrm	
13598	CRR.MB_Corr4.MassFlowRate	
13599	CRR.MB_Corr4.Density	
13600	CRR.MB_Corr4.Temp	
13601	CRR.MB_Corr4.VolFlowRate	
	CRR.MB_Corr4.Press	
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	CRR.MB_Corr4.MassInvtry	
	CRR.MB_Corr4.VolInvtry	
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	CRR.MB_Corr4.PressCorrDens	
	CRR.MB_Corr4.FlowCalibPress	
	CRR.MB_Corr4.PressInpZero	
	CRR.MB_Corr4.PressInpSpan	
13612	CRR.MB_Corr4.DensityCalib	

13614 CRR.MB_Corr4.VolFRMF 13615 CRR.MB_Corr4.DensityMF 13616 CRR.MB_Corr4.RawTubeFreq 13617 CRR.MB_Corr4.RghtPickVolt 13618 CRR.MB_Corr4.RghtPickVolt 13619 CRR.MB_Corr4.RghtPickVolt 13620 CRR.MB_Corr4.MassFlowZero 13621 CRR.MB_Corr5.StatusA 13622 CRR.MB_Corr5.StatusB 13623 CRR.MB_Corr5.StatusB 13624 CRR.MB_Corr5.StatusD 13625 CRR.MB_Corr5.StatusD 13626 CRR.MB_Corr5.StatusE 13626 CRR.MB_Corr5.StatusE 13627 CRR.MB_Corr5.StatusF 13628 CRR.MB_Corr5.StatusF 13629 CRR.MB_Corr5.StatusF 13629 CRR.MB_Corr5.NgssFlowRate 13629 CRR.MB_Corr5.NgssFlowRate 13629 CRR.MB_Corr5.NgssFlowRate 13630 CRR.MB_Corr5.NgssFlowRate 13631 CRR.MB_Corr5.NgssFlowRate 13632 CRR.MB_Corr5.NgssFlowRate 13633 CRR.MB_Corr5.NgssFlowRate 13634 CRR.MB_Corr5.NgssFlowRate 13635 CRR.MB_Corr5.NgssFlowRate 13636 CRR.MB_Corr5.NgssFlowRate 13637 CRR.MB_Corr5.NgssFlowRate 13638 CRR.MB_Corr5.NgssFlowRate 13639 CRR.MB_Corr5.NgssFlowRate 13640 CRR.MB_Corr5.NgssFlowRate 13641 CRR.MB_Corr5.NgssFlowRate 13642 CRR.MB_Corr5.NgssFlowRate 13643 CRR.MB_Corr5.NgssFlowFlowRate 13644 CRR.MB_Corr5.NgssFlowFlowRate 13645 CRR.MB_Corr5.NgsFRMF 13646 CRR.MB_Corr5.NgshPlpickVolt 13647 CRR.MB_Corr5.NghtPlpickVolt 13648 CRR.MB_Corr5.NghtPlpickVolt 13649 CRR.MB_Corr5.DiveGain	13613	CRR.MB Corr4.MassFRMF	
13615 CRR.MB_Corr4.DensityMF 13616 CRR.MB_Corr4.RawTubeFreq 13617 CRR.MB_Corr4.LeftPickVolt 13618 CRR.MB_Corr4.DensityMe 13619 CRR.MB_Corr4.DensityMe 13620 CRR.MB_Corr4.DensityMe 13621 CRR.MB_Corr5.StatusA 13622 CRR.MB_Corr5.StatusB 13623 CRR.MB_Corr5.StatusB 13624 CRR.MB_Corr5.StatusD 13625 CRR.MB_Corr5.StatusE 13626 CRR.MB_Corr5.StatusE 13627 CRR.MB_Corr5.StatusE 13628 CRR.MB_Corr5.StatusE 13629 CRR.MB_Corr5.Density 13620 CRR.MB_Corr5.Density 13630 CRR.MB_Corr5.Temp 13631 CRR.MB_Corr5.VolTotal 13632 CRR.MB_Corr5.Press 13633 CRR.MB_Corr5.MassTotal 13634 CRR.MB_Corr5.MassTotal 13635 CRR.MB_Corr5.Density 13636 CRR.MB_Corr5.Density 13637 CRR.MB_Corr5.PressCorrIow 13638 CRR.MB_Corr5.PressCorrIow 13639 CRR.MB_Corr5.PressCorrIow 13631 CRR.MB_Corr5.PressCorrIow 13632 CRR.MB_Corr5.PressCorrDens 13633 CRR.MB_Corr5.PressCorrDens 13634 CRR.MB_Corr5.PressInpSpan 13640 CRR.MB_Corr5.PressInpSpan 13641 CRR.MB_Corr5.DensityMF 13646 CRR.MB_Corr5.RawTubeFreq 13647 CRR.MB_Corr5.RawTubeFreq 13648 CRR.MB_Corr5.RawTubeFreq 13648 CRR.MB_Corr5.RawTubeFreq 13648 CRR.MB_Corr5.RawTubeFreq 13648 CRR.MB_Corr5.RawTubeFreq 13648 CRR.MB_Corr5.RawTubeFreq 13648 CRR.MB_Corr5.RawTubeFreq 13648 CRR.MB_Corr5.RawTubeFreq 13648 CRR.MB_Corr5.RawTubeFreq 13648 CRR.MB_Corr5.RawTubeFreq 13648 CRR.MB_Corr5.RawTubeFreq 13648 CRR.MB_Corr5.RawTubeFreq 13648 CRR.MB_Corr5.RawTubeFreq 13648 CRR.MB_Corr5.RawTubeFreq 13649 CRR.MB_Corr5.RawTubeFreq 13640 CRR.MB_Corr5.RawTubeFreq 13641 CRR.MB_Corr5.RawTubeFreq 13642 CRR.MB_Corr5.RawTubeFreq 13643 CRR.MB_Corr5.RawTubeFreq 13644 CRR.MB_Corr5.RawTubeFreq 13645 CRR.MB_Corr5.RawTubeFreq 13646 CRR.MB_Corr5.RawTubeFreq 13647 CRR.MB_Corr5.RawTubeFreq 13648 CRR.MB_Corr5.RawTubeFreq	13614		
13616 CRR.MB_Corr4.RawTubeFreq 13617 CRR.MB_Corr4.LeftPickVolt 13618 CRR.MB_Corr4.RghtPickVolt 13618 CRR.MB_Corr4.DriveGain 13620 CRR.MB_Corr4.DriveGain 13620 CRR.MB_Corr5.StatusA 13621 CRR.MB_Corr5.StatusB 13622 CRR.MB_Corr5.StatusB 13623 CRR.MB_Corr5.StatusD 13624 CRR.MB_Corr5.StatusE 13625 CRR.MB_Corr5.StatusE 13626 CRR.MB_Corr5.StatusE 13627 CRR.MB_Corr5.StatusE 13628 CRR.MB_Corr5.StatusE 13629 CRR.MB_Corr5.Density 13629 CRR.MB_Corr5.Density 13629 CRR.MB_Corr5.Density 13630 CRR.MB_Corr5.Density 13630 CRR.MB_Corr5.Density 13631 CRR.MB_Corr5.VolFlowRate 13632 CRR.MB_Corr5.VolFlowRate 13632 CRR.MB_Corr5.Density 13633 CRR.MB_Corr5.Density 13634 CRR.MB_Corr5.Density 13636 CRR.MB_Corr5.Density 13637 CRR.MB_Corr5.Density 13638 CRR.MB_Corr5.Density 13639 CRR.MB_Corr5.Density 13639 CRR.MB_Corr5.Density 13639 CRR.MB_Corr5.Density 13639 CRR.MB_Corr5.Density 13639 CRR.MB_Corr5.DensityDensity 13630 CRR.MB_Corr5.DensityDensity 13631 CRR.MB_Corr5.DensityDensity 13634 CRR.MB_Corr5.DensityDensity 13634 CRR.MB_Corr5.DensityDensityDensity 13634 CRR.MB_Corr5.DensityDensit	13615		
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13619 CRR.MB_Corr4.DriveGain 13620 CRR.MB_Corr4.MassFlowZero 13621 CRR.MB_Corr5.StatusA 13622 CRR.MB_Corr5.StatusB 13623 CRR.MB_Corr5.StatusC 13624 CRR.MB_Corr5.StatusD 13625 CRR.MB_Corr5.StatusE 13626 CRR.MB_Corr5.StatusF 13627 CRR.MB_Corr5.HighSvttyAlrm 13628 CRR.MB_Corr5.HighSvttyAlrm 13629 CRR.MB_Corr5.MassFlowRate 13629 CRR.MB_Corr5.Density 13630 CRR.MB_Corr5.Temp 13631 CRR.MB_Corr5.VoliFlowRate 13632 CRR.MB_Corr5.Press 13633 CRR.MB_Corr5.Press 13634 CRR.MB_Corr5.MassTotal 13635 CRR.MB_Corr5.MassInvity 13636 CRR.MB_Corr5.VolSensinvity 13637 CRR.MB_Corr5.PressCorrFlow 13638 CRR.MB_Corr5.PressCorrDens 13639 CRR.MB_Corr5.PressInpZero 13640 CRR.MB_Corr5.PressInpSpan 13641 CRR.MB_Corr5.DensityCallb 13642 CRR.MB_Corr5.VolFRMF	13617	CRR.MB_Corr4.LeftPickVolt	
13620 CRR.MB_Corr4.MassFlowZero 13621 CRR.MB_Corr5.StatusA 13622 CRR.MB_Corr5.StatusB 13623 CRR.MB_Corr5.StatusC 13624 CRR.MB_Corr5.StatusE 13625 CRR.MB_Corr5.StatusE 13626 CRR.MB_Corr5.StatusF 13627 CRR.MB_Corr5.HighSvrtyAlrm 13628 CRR.MB_Corr5.HighSvrtyAlrm 13629 CRR.MB_Corr5.Density 13629 CRR.MB_Corr5.Density 13630 CRR.MB_Corr5.VolFlowRate 13631 CRR.MB_Corr5.VolFlowRate 13632 CRR.MB_Corr5.MassTotal 13633 CRR.MB_Corr5.VolTotal 13634 CRR.MB_Corr5.VolTotal 13635 CRR.MB_Corr5.VolInvtry 13636 CRR.MB_Corr5.PressCorrDens 13637 CRR.MB_Corr5.PressCorrDens 13638 CRR.MB_Corr5.PressInpSpan 13641 CRR.MB_Corr5.PressInpSpan 13642 CRR.MB_Corr5.DensityCalib 13643 CRR.MB_Corr5.DensityCalib 13644 CRR.MB_Corr5.ReptrS.Rept 13645 CRR.MB_Corr5.	13618	CRR.MB_Corr4.RghtPickVolt	
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13625 CRR.MB_Corr5.StatusE 13626 CRR.MB_Corr5.HighSvrtyAlrm 13627 CRR.MB_Corr5.HighSvrtyAlrm 13628 CRR.MB_Corr5.MassFlowRate 13629 CRR.MB_Corr5.Density 13630 CRR.MB_Corr5.Density 13631 CRR.MB_Corr5.VolFlowRate 13632 CRR.MB_Corr5.VolFlowRate 13633 CRR.MB_Corr5.MassTotal 13634 CRR.MB_Corr5.MassInvtry 13635 CRR.MB_Corr5.VolInvtry 13636 CRR.MB_Corr5.VolInvtry 13637 CRR.MB_Corr5.PressCorrFlow 13638 CRR.MB_Corr5.PressCorrDens 13639 CRR.MB_Corr5.FlowCalibPress 13640 CRR.MB_Corr5.PressInpZero 13641 CRR.MB_Corr5.PressInpSpan 13642 CRR.MB_Corr5.NassFRMF 13643 CRR.MB_Corr5.VolFRMF 13644 CRR.MB_Corr5.VolFRMF 13645 CRR.MB_Corr5.RawTubeFreq 13647 CRR.MB_Corr5.RghtPickVolt 13648 CRR.MB_Corr5.RghtPickVolt	13623	CRR.MB_Corr5.StatusC	
13626 CRR.MB_Corr5.StatusF 13627 CRR.MB_Corr5.HighSvrtyAlrm 13628 CRR.MB_Corr5.MassFlowRate 13629 CRR.MB_Corr5.Density 13630 CRR.MB_Corr5.Density 13631 CRR.MB_Corr5.VolFlowRate 13632 CRR.MB_Corr5.Press 13633 CRR.MB_Corr5.MassTotal 13634 CRR.MB_Corr5.VolTotal 13635 CRR.MB_Corr5.VolInvtry 13636 CRR.MB_Corr5.PressCorrFlow 13637 CRR.MB_Corr5.PressCorrDens 13639 CRR.MB_Corr5.FlowCalibPress 13640 CRR.MB_Corr5.PressInpZero 13641 CRR.MB_Corr5.DensityCalib 13642 CRR.MB_Corr5.MassFRMF 13643 CRR.MB_Corr5.VolFRMF 13644 CRR.MB_Corr5.DensityMF 13645 CRR.MB_Corr5.RawTubeFreq 13647 CRR.MB_Corr5.RghtPickVolt	13624	CRR.MB_Corr5.StatusD	
13627 CRR.MB_Corr5.HighSvrtyAlrm 13628 CRR.MB_Corr5.MassFlowRate 13629 CRR.MB_Corr5.Density 13630 CRR.MB_Corr5.Temp 13631 CRR.MB_Corr5.VolFlowRate 13632 CRR.MB_Corr5.Press 13633 CRR.MB_Corr5.MassTotal 13634 CRR.MB_Corr5.VolTotal 13635 CRR.MB_Corr5.MassInvtry 13636 CRR.MB_Corr5.VolInvtry 13637 CRR.MB_Corr5.PressCorrFlow 13638 CRR.MB_Corr5.PressCorrDens 13639 CRR.MB_Corr5.FlowCalibPress 13640 CRR.MB_Corr5.PressInpZero 13641 CRR.MB_Corr5.PressInpSpan 13642 CRR.MB_Corr5.DensityCalib 13643 CRR.MB_Corr5.VolFRMF 13644 CRR.MB_Corr5.VolFRMF 13645 CRR.MB_Corr5.DensityMF 13646 CRR.MB_Corr5.RawTubeFreq 13647 CRR.MB_Corr5.RghtPickVolt 13648 CRR.MB_Corr5.RghtPickVolt	13625	CRR.MB_Corr5.StatusE	
13628 CRR.MB_Corr5.MassFlowRate 13629 CRR.MB_Corr5.Density 13630 CRR.MB_Corr5.Temp 13631 CRR.MB_Corr5.VolFlowRate 13632 CRR.MB_Corr5.Press 13633 CRR.MB_Corr5.MassTotal 13634 CRR.MB_Corr5.VolTotal 13635 CRR.MB_Corr5.MassInvtry 13636 CRR.MB_Corr5.VolInvtry 13637 CRR.MB_Corr5.PressCorrFlow 13638 CRR.MB_Corr5.PressCorrDens 13639 CRR.MB_Corr5.FlowCalibPress 13640 CRR.MB_Corr5.PressInpSpan 13641 CRR.MB_Corr5.PressInpSpan 13642 CRR.MB_Corr5.DensityCalib 13643 CRR.MB_Corr5.DensityCalib 13644 CRR.MB_Corr5.DensityMF 13645 CRR.MB_Corr5.RawTubeFreq 13646 CRR.MB_Corr5.RawTubeFreq 13647 CRR.MB_Corr5.RghtPickVolt	13626	CRR.MB_Corr5.StatusF	
13629 CRR.MB_Corr5.Density 13630 CRR.MB_Corr5.VolFlowRate 13631 CRR.MB_Corr5.VolFlowRate 13632 CRR.MB_Corr5.Press 13633 CRR.MB_Corr5.MassTotal 13634 CRR.MB_Corr5.VolTotal 13635 CRR.MB_Corr5.MassInvtry 13636 CRR.MB_Corr5.VolInvtry 13637 CRR.MB_Corr5.PressCorrFlow 13638 CRR.MB_Corr5.PressCorrDens 13639 CRR.MB_Corr5.FlowCalibPress 13640 CRR.MB_Corr5.PressInpZero 13641 CRR.MB_Corr5.PressInpSpan 13642 CRR.MB_Corr5.DensityCalib 13643 CRR.MB_Corr5.MassFRMF 13644 CRR.MB_Corr5.DensityCalib 13645 CRR.MB_Corr5.DensityMF 13646 CRR.MB_Corr5.DensityMF 13647 CRR.MB_Corr5.LeftPickVolt 13648 CRR.MB_Corr5.LeftPickVolt	13627	CRR.MB_Corr5.HighSvrtyAlrm	
13630 CRR.MB_Corr5.Temp 13631 CRR.MB_Corr5.VolFlowRate 13632 CRR.MB_Corr5.Press 13633 CRR.MB_Corr5.MassTotal 13634 CRR.MB_Corr5.VolTotal 13635 CRR.MB_Corr5.MassInvtry 13636 CRR.MB_Corr5.VolInvtry 13637 CRR.MB_Corr5.PressCorrFlow 13638 CRR.MB_Corr5.PressCorrDens 13639 CRR.MB_Corr5.FlowCalibPress 13640 CRR.MB_Corr5.PressInpZero 13641 CRR.MB_Corr5.PressInpSpan 13642 CRR.MB_Corr5.DensityCalib 13643 CRR.MB_Corr5.MassFRMF 13644 CRR.MB_Corr5.VolFRMF 13645 CRR.MB_Corr5.DensityMF 13646 CRR.MB_Corr5.LeftPickVolt 13647 CRR.MB_Corr5.RghtPickVolt	13628	CRR.MB_Corr5.MassFlowRate	
13631 CRR.MB_Corr5.VolFlowRate 13632 CRR.MB_Corr5.Press 13633 CRR.MB_Corr5.MassTotal 13634 CRR.MB_Corr5.VolTotal 13635 CRR.MB_Corr5.MassInvtry 13636 CRR.MB_Corr5.VolInvtry 13637 CRR.MB_Corr5.PressCorrDens 13638 CRR.MB_Corr5.PressCorrDens 13639 CRR.MB_Corr5.PressInpZero 13640 CRR.MB_Corr5.PressInpZero 13641 CRR.MB_Corr5.PressInpSpan 13642 CRR.MB_Corr5.DensityCalib 13643 CRR.MB_Corr5.MassFRMF 13644 CRR.MB_Corr5.VolFRMF 13645 CRR.MB_Corr5.DensityMF 13646 CRR.MB_Corr5.RawTubeFreq 13647 CRR.MB_Corr5.RghtPickVolt 13648 CRR.MB_Corr5.RghtPickVolt	13629	CRR.MB_Corr5.Density	
13632 CRR.MB_Corr5.Press 13633 CRR.MB_Corr5.MassTotal 13634 CRR.MB_Corr5.VolTotal 13635 CRR.MB_Corr5.MassInvtry 13636 CRR.MB_Corr5.VolInvtry 13637 CRR.MB_Corr5.PressCorrFlow 13638 CRR.MB_Corr5.PressCorrDens 13639 CRR.MB_Corr5.FlowCalibPress 13640 CRR.MB_Corr5.PressInpZero 13641 CRR.MB_Corr5.PressInpSpan 13642 CRR.MB_Corr5.DensityCalib 13643 CRR.MB_Corr5.MassFRMF 13644 CRR.MB_Corr5.VolFRMF 13645 CRR.MB_Corr5.DensityMF 13646 CRR.MB_Corr5.RawTubeFreq 13647 CRR.MB_Corr5.RghtPickVolt 13648 CRR.MB_Corr5.RghtPickVolt	13630	CRR.MB_Corr5.Temp	
13633 CRR.MB_Corr5.MassTotal 13634 CRR.MB_Corr5.VolTotal 13635 CRR.MB_Corr5.MassInvtry 13636 CRR.MB_Corr5.VolInvtry 13637 CRR.MB_Corr5.PressCorrDow 13638 CRR.MB_Corr5.PressCorrDens 13639 CRR.MB_Corr5.FlowCalibPress 13640 CRR.MB_Corr5.PressInpZero 13641 CRR.MB_Corr5.PressInpSpan 13642 CRR.MB_Corr5.DensityCalib 13643 CRR.MB_Corr5.MassFRMF 13644 CRR.MB_Corr5.VolFRMF 13645 CRR.MB_Corr5.DensityMF 13646 CRR.MB_Corr5.RawTubeFreq 13647 CRR.MB_Corr5.RghtPickVolt 13648 CRR.MB_Corr5.RghtPickVolt	13631	CRR.MB_Corr5.VolFlowRate	
13634 CRR.MB_Corr5.VolTotal 13635 CRR.MB_Corr5.MassInvtry 13636 CRR.MB_Corr5.VolInvtry 13637 CRR.MB_Corr5.PressCorrFlow 13638 CRR.MB_Corr5.PressCorrDens 13639 CRR.MB_Corr5.FlowCalibPress 13640 CRR.MB_Corr5.PressInpZero 13641 CRR.MB_Corr5.PressInpSpan 13642 CRR.MB_Corr5.DensityCalib 13643 CRR.MB_Corr5.MassFRMF 13644 CRR.MB_Corr5.VolFRMF 13645 CRR.MB_Corr5.DensityMF 13646 CRR.MB_Corr5.RawTubeFreq 13647 CRR.MB_Corr5.LeftPickVolt 13648 CRR.MB_Corr5.RghtPickVolt	13632	CRR.MB_Corr5.Press	
13635 CRR.MB_Corr5.MassInvtry 13636 CRR.MB_Corr5.VolInvtry 13637 CRR.MB_Corr5.PressCorrFlow 13638 CRR.MB_Corr5.PressCorrDens 13639 CRR.MB_Corr5.FlowCalibPress 13640 CRR.MB_Corr5.PressInpZero 13641 CRR.MB_Corr5.PressInpSpan 13642 CRR.MB_Corr5.DensityCalib 13643 CRR.MB_Corr5.MassFRMF 13644 CRR.MB_Corr5.VolFRMF 13645 CRR.MB_Corr5.DensityMF 13646 CRR.MB_Corr5.RawTubeFreq 13647 CRR.MB_Corr5.LeftPickVolt 13648 CRR.MB_Corr5.RghtPickVolt	13633	CRR.MB_Corr5.MassTotal	
13636 CRR.MB_Corr5.VolInvtry 13637 CRR.MB_Corr5.PressCorrFlow 13638 CRR.MB_Corr5.PressCorrDens 13639 CRR.MB_Corr5.FlowCalibPress 13640 CRR.MB_Corr5.PressInpZero 13641 CRR.MB_Corr5.PressInpSpan 13642 CRR.MB_Corr5.DensityCalib 13643 CRR.MB_Corr5.MassFRMF 13644 CRR.MB_Corr5.VolFRMF 13645 CRR.MB_Corr5.DensityMF 13646 CRR.MB_Corr5.RawTubeFreq 13647 CRR.MB_Corr5.LeftPickVolt 13648 CRR.MB_Corr5.RghtPickVolt	13634	CRR.MB_Corr5.VolTotal	
13637 CRR.MB_Corr5.PressCorrFlow 13638 CRR.MB_Corr5.PressCorrDens 13639 CRR.MB_Corr5.FlowCalibPress 13640 CRR.MB_Corr5.PressInpZero 13641 CRR.MB_Corr5.PressInpSpan 13642 CRR.MB_Corr5.DensityCalib 13643 CRR.MB_Corr5.MassFRMF 13644 CRR.MB_Corr5.VolFRMF 13645 CRR.MB_Corr5.DensityMF 13646 CRR.MB_Corr5.RawTubeFreq 13647 CRR.MB_Corr5.LeftPickVolt 13648 CRR.MB_Corr5.RghtPickVolt	13635	CRR.MB_Corr5.MassInvtry	
13638 CRR.MB_Corr5.PressCorrDens 13639 CRR.MB_Corr5.FlowCalibPress 13640 CRR.MB_Corr5.PressInpZero 13641 CRR.MB_Corr5.PressInpSpan 13642 CRR.MB_Corr5.DensityCalib 13643 CRR.MB_Corr5.MassFRMF 13644 CRR.MB_Corr5.VolFRMF 13645 CRR.MB_Corr5.DensityMF 13646 CRR.MB_Corr5.RawTubeFreq 13647 CRR.MB_Corr5.LeftPickVolt 13648 CRR.MB_Corr5.RghtPickVolt	13636	CRR.MB_Corr5.VolInvtry	
13639 CRR.MB_Corr5.FlowCalibPress 13640 CRR.MB_Corr5.PressInpZero 13641 CRR.MB_Corr5.PressInpSpan 13642 CRR.MB_Corr5.DensityCalib 13643 CRR.MB_Corr5.MassFRMF 13644 CRR.MB_Corr5.VolFRMF 13645 CRR.MB_Corr5.DensityMF 13646 CRR.MB_Corr5.RawTubeFreq 13647 CRR.MB_Corr5.LeftPickVolt 13648 CRR.MB_Corr5.RghtPickVolt	13637	CRR.MB_Corr5.PressCorrFlow	
13640 CRR.MB_Corr5.PressInpZero 13641 CRR.MB_Corr5.PressInpSpan 13642 CRR.MB_Corr5.DensityCalib 13643 CRR.MB_Corr5.MassFRMF 13644 CRR.MB_Corr5.VolFRMF 13645 CRR.MB_Corr5.DensityMF 13646 CRR.MB_Corr5.RawTubeFreq 13647 CRR.MB_Corr5.LeftPickVolt 13648 CRR.MB_Corr5.RghtPickVolt	13638	CRR.MB_Corr5.PressCorrDens	
13641 CRR.MB_Corr5.PressInpSpan 13642 CRR.MB_Corr5.DensityCalib 13643 CRR.MB_Corr5.MassFRMF 13644 CRR.MB_Corr5.VolFRMF 13645 CRR.MB_Corr5.DensityMF 13646 CRR.MB_Corr5.RawTubeFreq 13647 CRR.MB_Corr5.LeftPickVolt 13648 CRR.MB_Corr5.RghtPickVolt	13639	CRR.MB_Corr5.FlowCalibPress	
13642 CRR.MB_Corr5.DensityCalib 13643 CRR.MB_Corr5.MassFRMF 13644 CRR.MB_Corr5.VolFRMF 13645 CRR.MB_Corr5.DensityMF 13646 CRR.MB_Corr5.RawTubeFreq 13647 CRR.MB_Corr5.LeftPickVolt 13648 CRR.MB_Corr5.RghtPickVolt	13640	CRR.MB_Corr5.PressInpZero	
13643 CRR.MB_Corr5.MassFRMF 13644 CRR.MB_Corr5.VolFRMF 13645 CRR.MB_Corr5.DensityMF 13646 CRR.MB_Corr5.RawTubeFreq 13647 CRR.MB_Corr5.LeftPickVolt 13648 CRR.MB_Corr5.RghtPickVolt	13641	CRR.MB_Corr5.PressInpSpan	
13644 CRR.MB_Corr5.VolFRMF 13645 CRR.MB_Corr5.DensityMF 13646 CRR.MB_Corr5.RawTubeFreq 13647 CRR.MB_Corr5.LeftPickVolt 13648 CRR.MB_Corr5.RghtPickVolt	13642	CRR.MB_Corr5.DensityCalib	
13645 CRR.MB_Corr5.DensityMF 13646 CRR.MB_Corr5.RawTubeFreq 13647 CRR.MB_Corr5.LeftPickVolt 13648 CRR.MB_Corr5.RghtPickVolt	13643	CRR.MB_Corr5.MassFRMF	
13646 CRR.MB_Corr5.RawTubeFreq 13647 CRR.MB_Corr5.LeftPickVolt 13648 CRR.MB_Corr5.RghtPickVolt	13644	CRR.MB_Corr5.VolFRMF	
13647 CRR.MB_Corr5.LeftPickVolt 13648 CRR.MB_Corr5.RghtPickVolt	13645	CRR.MB_Corr5.DensityMF	
13648 CRR.MB_Corr5.RghtPickVolt	13646	CRR.MB_Corr5.RawTubeFreq	
	13647	CRR.MB_Corr5.LeftPickVolt	
13649 CRR.MB_Corr5.DriveGain	13648	CRR.MB_Corr5.RghtPickVolt	
<u> </u>	13649	CRR.MB_Corr5.DriveGain	

13650	CRR.MB Corr5.MassFlowZero			
13651	CRR.MB_Corr6.StatusA			
13652	CRR.MB_Corr6.StatusB			
13653	CRR.MB_Corr6.StatusC			
13654	CRR.MB_Corr6.StatusD			
13655	CRR.MB_Corr6.StatusE			
13656	CRR.MB_Corr6.StatusF			
13657	CRR.MB_Corr6.HighSvrtyAlrm			
13658	CRR.MB_Corr6.MassFlowRate			
13659	CRR.MB_Corr6.Density			
13660	CRR.MB_Corr6.Temp			
13661	CRR.MB_Corr6.VolFlowRate			
13662	CRR.MB_Corr6.Press			
13663	CRR.MB_Corr6.MassTotal			
13664	CRR.MB_Corr6.VolTotal			
13665	CRR.MB_Corr6.MassInvtry			
13666	CRR.MB_Corr6.VolInvtry			
13667	CRR.MB_Corr6.PressCorrFlow			
13668	CRR.MB_Corr6.PressCorrDens			
13669	CRR.MB_Corr6.FlowCalibPress			
13670	CRR.MB_Corr6.PressInpZero			
13671	CRR.MB_Corr6.PressInpSpan			
13672	CRR.MB_Corr6.DensityCalib			
13673	CRR.MB_Corr6.MassFRMF			
13674	CRR.MB_Corr6.VolFRMF			
13675	CRR.MB_Corr6.DensityMF			
13676	CRR.MB_Corr6.RawTubeFreq			
13677	CRR.MB_Corr6.LeftPickVolt			
13678	CRR.MB_Corr6.RghtPickVolt			
13679	CRR.MB_Corr6.DriveGain			
13680	CRR.MB_Corr6.MassFlowZero	*****	RESERVED FOR	*****
13681	MB.Spare	*****	RESERVED FOR	*****
13682	MB.Spare	*****	RESERVED FOR	*****
13683	MB.Spare	*****	RESERVED FOR	*****
13684	MB.Spare	*****	RESERVED FOR	*****
13685	MB.Spare	*****	RESERVED FOR	*****
13686	MB.Spare	*****	RESERVED FOR	*****
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13687	MB.Spare	*****	RESERVED FOR	*****
13688	MB.Spare	*****	RESERVED FOR	*****
13689	MB.Spare	*****	RESERVED FOR	*****
13690	MB.Spare	*****	RESERVED FOR	*****
13691	MB.Spare	*****	RESERVED FOR	*****
13692	MB.Spare	*****	RESERVED FOR	*****
13693	MB.Spare	*****	RESERVED FOR	*****
13694	MB.Spare	*****	RESERVED FOR	*****
13695	MB.Spare	*****	RESERVED FOR	*****
13696	MB.Spare	*****	RESERVED FOR	*****
13697	MB.Spare	*****	RESERVED FOR	*****
13698	MB.Spare	*****	RESERVED FOR	*****
13699	MB.Spare	*****	RESERVED FOR	*****
13700	MB.Spare	*****	RESERVED FOR	*****
13701	MB.Spare	*****	RESERVED FOR	*****
13702	MB.Spare	*****	RESERVED FOR	*****
13703	MB.Spare	*****	RESERVED FOR	*****
13704	MB.Spare	*****	RESERVED FOR	*****
13705	MB.Spare	*****	RESERVED FOR	*****
13706	MB.Spare	*****	RESERVED FOR	*****
13707	MB.Spare	*****	RESERVED FOR	*****
13708	MB.Spare	*****	RESERVED FOR	*****
13709	MB.Spare	*****	RESERVED FOR	*****
13710	MB.Spare	*****	RESERVED FOR	*****
13711	MB.Spare	*****	RESERVED FOR	*****
13712	MB.Spare	*****	RESERVED FOR	*****
13713	MB.Spare	*****	RESERVED FOR	*****
13714	MB.Spare	*****	RESERVED FOR	*****
13715	MB.Spare	*****	RESERVED FOR	*****
13716	MB.Spare	*****	RESERVED FOR	*****
13717	MB.Spare	*****	RESERVED FOR	*****
13718	MB.Spare	*****	RESERVED FOR	*****
13719	MB.Spare	*****	RESERVED FOR	*****
13720	MB.Spare	*****	RESERVED FOR	*****
13721	MB.Spare	*****	RESERVED FOR	*****
13722	MB.Spare	*****	RESERVED FOR	*****
13723	MB.Spare	*****	RESERVED FOR	*****
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13724	MB.Spare	*****	RESERVED FOR	*****
13725	MB.Spare	*****	RESERVED FOR	*****
13726	MB.Spare	*****	RESERVED FOR	*****
13727	MB.Spare	*****	RESERVED FOR	*****
13728	MB.Spare	*****	RESERVED FOR	*****
13729	MB.Spare	*****	RESERVED FOR	*****
13730	MB.Spare	*****	RESERVED FOR	*****
13731	MB.Spare	*****	RESERVED FOR	*****
13732	MB.Spare	*****	RESERVED FOR	*****
13733	MB.Spare	*****	RESERVED FOR	****
13734	MB.Spare	*****	RESERVED FOR	*****
13735	MB.Spare	*****	RESERVED FOR	****
13736	MB.Spare	*****	RESERVED FOR	*****
13737	MB.Spare	*****	RESERVED FOR	*****
13738	MB.Spare	*****	RESERVED FOR	*****
13739	MB.Spare	*****	RESERVED FOR	*****
13740	MB.Spare	*****	RESERVED FOR	*****
13741	HRT.IHARTFB_1.orPV			
13742	HRT.IHARTFB_2.orPV			
13743	HRT.IHARTFB_3.orPV			
13744	HRT.IHARTFB_4.orPV			
13745	HRT.IHARTFB_5.orPV			
13746	HRT.IHARTFB_6.orPV			
13747	HRT.IHARTFB_7.orPV			
13748	HRT.IHARTFB_8.orPV			
13749	HRT.IHARTFB_9.orPV			
13750	HRT.IHARTFB_10.orPV			
13751	HRT.IHARTFB_11.orPV			
13752	HRT.IHARTFB_12.orPV			
13753	HRT.IHARTFB_13.orPV			
13754	HRT.IHARTFB_14.orPV			
13755	HRT.IHARTFB_15.orPV			
13756	HRT.IHARTFB_16.orPV			
13757	HRT.IHARTFB_17.orPV			
13758	HRT.IHARTFB_18.orPV			
13759	WHRT.WHARTFB_1.orPV1			
13760	WHRT.WHARTFB_1.orPV2			

13761	WHRT.WHARTFB_1.orPV3
13762	WHRT.WHARTFB_1.orPV4
13763	WHRT.WHARTFB_1.orPV5
13764	WHRT.WHARTFB_1.orPV6
13765	WHRT.WHARTFB_1.orPV7
13766	WHRT.WHARTFB_1.orPV8
13767	WHRT.WHARTFB_1.orPV9
13768	WHRT.WHARTFB_1.orPV10
13769	WHRT.WHARTFB_1.orPV11
13770	WHRT.WHARTFB_1.orPV12
13771	WHRT.WHARTFB_1.orPV13
13772	WHRT.WHARTFB_1.orPV14
13773	WHRT.WHARTFB_1.orPV15
13774	WHRT.WHARTFB_1.orPV16
13775	WHRT.WHARTFB_1.orPV17
13776	WHRT.WHARTFB_1.orPV18
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Table M-3 Modbus Register Map – SINT Variables

Reg#	Variable	Description
3001	MB.Spare	(Reserved for Modbus Special Functions!)
3002	MB.Spare	(Reserved for Modbus Special Functions!)
3003	MB.Spare	(Reserved for Modbus Special Functions!)
3004	MB.Spare	(Reserved for Modbus Special Functions!)
3005	FC.FC1.RX_HourlyNewestRec	Run 1 - newest record number in hourly archive
3006	FC.FC2.RX_HourlyNewestRec	Run 2 - newest record number in hourly archive
3007	FC.FC3.RX_HourlyNewestRec	Run 3 - newest record number in hourly archive
3008	FC.FC4.RX_HourlyNewestRec	Run 4 - newest record number in hourly archive
3009	FC.FC5.RX_HourlyNewestRec	Run 5 - newest record number in hourly archive
3010	FC.FC6.RX_HourlyNewestRec	Run 6 - newest record number in hourly archive
3011	FC.FC7.RX_HourlyNewestRec	Run 7 - newest record number in hourly archive
3012	FC.FC8.RX_HourlyNewestRec	Run 8 - newest record number in hourly archive
3013	MB.Spare	Run n - newest record number in hourly archive, n = 1 through 12
3014	MB.Spare	Run n - newest record number in hourly archive, n = 1 through 12
3015	MB.Spare	Run n - newest record number in hourly archive, n = 1 through 12
3016	MB.Spare	Run n - newest record number in hourly archive, n = 1 through 12
3017	FC.FC1.RX_DailyNewestRec	Run 1 - newest record number in daily archive

Social Content of the content of t	Reg#	Variable	Description
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3020 FC.FC4.RX DailyNewestRec Run 4 - newest record number in daily archive Run 5 - newest record number in daily archive Run 5 - newest record number in daily archive Run 5 - newest record number in daily archive Run 5 - newest record number in daily archive Run 5 - newest record number in daily archive Run 5 - newest record number in daily archive Run 7 - newest record number in daily archive Run 7 - newest record number in daily archive Run 7 - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest			·
SO21 FC.FCS.RX DailyNewestRec Run 5 - newest record number in daily archive			•
3022 FC.FC6.RX_DailyNewestRec Run 6 - newest record number in daily archive 3023 FC.FC7.RX_DailyNewestRec Run 7 - newest record number in daily archive 3024 FC.FC8.RX_DailyNewestRec Run 8 - newest record number in daily archive 3025 MB.Spare Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newest record number in daily archive, n = 1 through 12 Run n - newe			· · · · · · · · · · · · · · · · · · ·
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12 Run n - newest record number in daily archive, n = 1 through 12 12 13 12 13 14 15 15 15 15 15 15 15	3026	MB.Spare	Run n - newest record number in daily archive, n = 1 through
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3030 MB.Enron_Date Register where Date is available via Enron, if not default	3028	MB.Spare	
MB.Enron_Time Register where Time is available via Enron, if not default	3029	MB.Enron_AuditCount	Number of audit records available via Enron MODBUS
MB.Enron_FirmWareID	3030	MB.Enron_Date	Register where Date is available via Enron, if not default
MB.Enron_EAudit The Modbus register address number that will cause the special function for Enhanced Audit access to be executed.	3031	MB.Enron_Time	Register where Time is available via Enron, if not default
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		MB.HourRecord5	
3058 MB.HourRecord7	3057	MB.HourRecord6	
	3058	MB.HourRecord7	
3059 MB.HourRecord8	3059	MB.HourRecord8	
3060 MB.Spare	3060	MB.Spare	

Reg#	Variable	Description
3061	MB.Spare	2000/ipiloti
3062	MB.Spare	
3063	MB.Spare	
3064	MB.DayRecord1	
3065	MB.DayRecord2	
3066		
3067	MB.DayRecord3	
3068	MB.DayRecord4 MB.DayRecord5	
3069		
3070	MB.DayRecord6	
	MB.DayRecord7	
3071	MB.DayRecord8	
3072	MB.Spare	
3073	MB.Spare	
3074	MB.Spare	
3075	MB.Spare	
3076	MB.GCRecord1	
3077	MB.GCRecord2	
3078	MB.GCRecord3	
3079	MB.GCRecord4	
3080	MB.GCRecord5	
3081	MB.GCRecord6	
3082	MB.GCRecord7	
3083	MB.GCRecord8	
3084	MB.Spare	
3085	MB.Spare	
3086	MB.Spare	
3087	MB.Spare	
3088	MB.RFRecord1	
3089	MB.RFRecord2	
3090	MB.RFRecord3	
3091	MB.RFRecord4	
3092	MB.RFRecord5	
3093	MB.RFRecord6	
3094	MB.RFRecord7	
3095	MB.RFRecord8	
3096	MB.Spare	
3097	MB.Spare	
3098	MB.Spare	
3099	MB.Spare	
3100	MB.UFM_HourRecord1	
3101	MB.UFM_HourRecord2	
3102	MB.UFM_HourRecord3	
3103	MB.UFM_HourRecord4	
3104	MB.UFM_HourRecord5	
3105	MB.UFM_HourRecord6	
3106	MB.UFM HourRecord7	
3107	MB.UFM HourRecord8	
3108	MB.UFM DayRecord1	
3109	MB.UFM DayRecord2	
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Reg#	Variable	Description
3161	MB.Spare	2000/1940/1
3162	MB.Spare	
3163	MB.Spare	
3164	MB.Spare	
3165	MB.Spare	
3166	MB.Spare	
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Reg#	Variable	Description
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3262	MB.Spare	
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3264	MB.Spare	
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Reg#	Variable	Description
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Reg#	Variable	Description
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	MB.UNP71	
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4082		
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4118	MB.UNP108	
4119	MB.UNP109	
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4128	MB.UNP118	
4129	MB.UNP119	
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4132	MB.UNP122	
4133	MB.UNP123	
4134	MB.UNP124	
4135	MB.UNP125	
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4137	HRT.HART 2 TYPE	
4138	HRT.HART 3 TYPE	
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4140	HRT.HART 5 TYPE	
4141	HRT.HART 6 TYPE	
4142	HRT.HART 7 TYPE	
4143	HRT.HART_8_TYPE	
4144	HRT.HART 9 TYPE	
4145	HRT.HART_10_TYPE	
4146	HRT.HART_11_TYPE	
4147	HRT.HART_12_TYPE	
4148	HRT.HART_13_TYPE	
4149	HRT.HART_14_TYPE	
4150	HRT.HART_15_TYPE	
4151	HRT.HART_16_TYPE	
4152	HRT.HART_17_TYPE	
4153	HRT.HART_18_TYPE	
4154	WHRT.WHART_1_TYPE	
4155	WHRT.WHART_2_TYPE	
4156	WHRT.WHART_3_TYPE	
4157	WHRT.WHART_4_TYPE	
4158	WHRT.WHART_5_TYPE	
4159	WHRT.WHART_6_TYPE	
4160	WHRT.WHART_7_TYPE	

Reg#	Variable	Description
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4162	WHRT.WHART_9_TYPE	
4163	WHRT.WHART_10_TYPE	
4164	WHRT.WHART_11_TYPE	
4165	WHRT.WHART_12_TYPE	
4166	WHRT.WHART_13_TYPE	
4167	WHRT.WHART_14_TYPE	
4168	WHRT.WHART_15_TYPE	
4169	WHRT.WHART_16_TYPE	
4170	WHRT.WHART_17_TYPE	
4171	WHRT.WHART_18_TYPE	

Appendix X – Using the External Measurement (XT) Version of the Station Manager Application

The main difference between the Station Manager application described throughout this manual, and the "External Measurement" **XT** version of the Station Manager application is that measurement data in the XT version comes from ControlWave XFC or ControlWave GFC flow computers instead of from I/O modules in the ControlWave Micro.

You must be a SupportNetTM user to download the self-extracting zip file that includes the ControlWave project (application) which supports the Station Manager XT version for your device. The installers place the ControlWave project in the proper sub-folder of C:\OpenBSI on the OpenBSI workstation; you must then download the project into the ControlWave GFC or XFC. The ControlWave project versions required are:

- ControlWave GFC Version 2.29 (or newer)
- ControlWave XFC Version 1.59 (or newer)

These are versions that include the Station Manager interface LIST, the SERVER function block for RTU to RTU communications, and allow selection for direction change indication.

This appendix outlines the differences in station configuration for the XT version.

In This Appendix

X.1	Turning on Polling to ControlWave XFC/GFC Flow Compute	rs X-1
X.2	Assigning a Run to a Station	X-5
X.3	Setting Direction Feedback for the Meter Run	X-5
	Assigning a Gas Chromatograph (GC) Dataset to a Run	
	Configuring Compressor Control	

X.1 Turning on Polling to ControlWave XFC/GFC Flow Computers

The external measurement (XT) version of the Station Manager application includes up to six stations and up to eight meter runs.

You must configure the XFCs/GFCs for meter run measurement and connect them to the ControlWave Micro running the XT Station Manager application via BSAP serial communication ports.

When you configure the BSAP master serial port at the ControlWave Micro, we recommend you use DataView to set the port configuration variables (where x=port number) using the following characteristics:

- Px POLL PER = 5

- Px WRITE TMO = 2500
- Px IGNORE ECHO = TRUE
- Px RETRIES = 3
- Px TIMEOUT = 500
- $Px \text{ AUTO}_DTR = ON$
- Px TYPE = 2

In addition, the BSAP local address of the ControlWave XFC/GFC must reside in the range defined by _Px_LOW_SL and _Px_HIGH_SL variables in the ControlWave Micro.

1. To start polling a connected XFC/GFC for data, click the Measurement tab from the main TechView session and then click the Status/Configuration button as shown in the screen shot below.

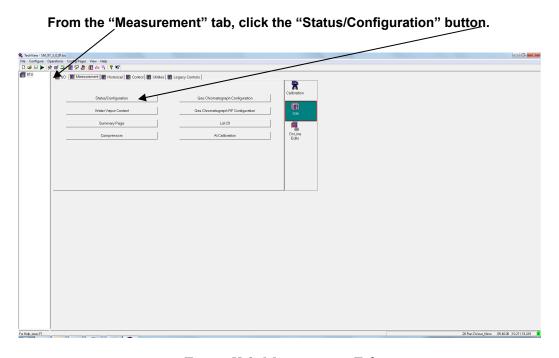


Figure X-1. Measurement Tab

2. The Status Configuration screen opens. Click on the first run you want to set up, normally this would be Run 1.

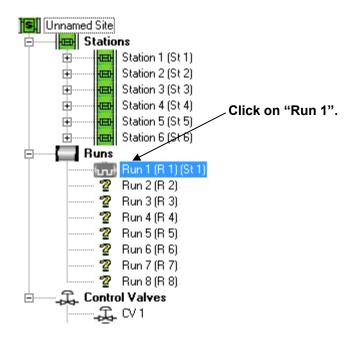


Figure X-2. Choosing the Run

3. The Run Config tab opens. From the "Flow Computer Settings" section of the screen, specify the BSAP local address of the ControlWave XFC/GFC used for this run in the **Address** field, then click the **Poll Enabled/Disabled** button to enable polling.

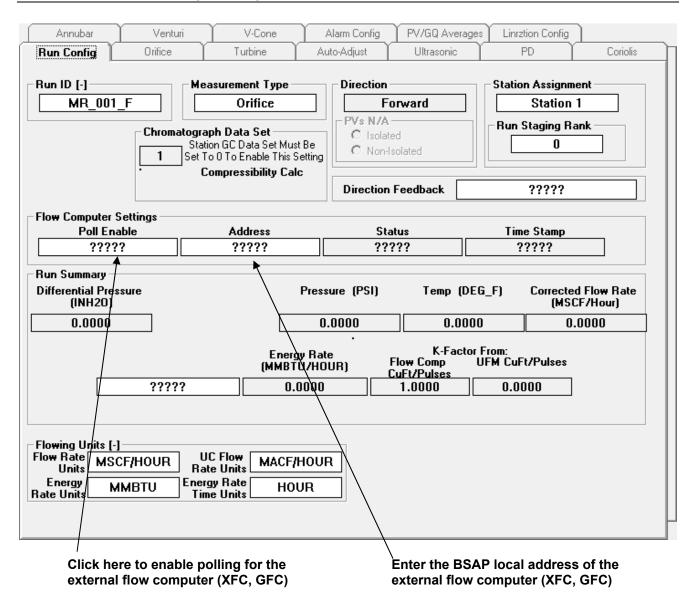


Figure X-3. External Flow Computer Settings (XT)

- **4.** Once you click the Poll Enable button, Station Manager updates several fields on the Run Configuration tab:
 - The **Time Stamp** field shows a timestamp from the XFC/GFC.
 - The meter ID defined in the XFC/GFC shows in the Run ID text box.
 - The **Status** field should show **0**. If the **Status** field shows something other than zero, it indicates a configuration error.

X.2 Assigning a Run to a Station

Once you can successfully communicate with your external flow computers (XFCs/GFCs), you can assign them to a station. You do this from the same page where you turn on polling to the external flow computer. Click the **Station Assignment** field to assign the run to a station as shown in the screen shot below.

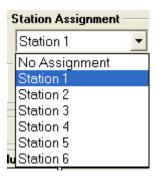


Figure X-4. Selecting the Station

X.3 Setting Direction Feedback for the Meter Run

For a bi-directional run, you need to tell the XFC/GFC how to determine which direction the gas flows.



Figure X-5. Direction Feedback field

To do this, set the **Direction Feedback** field on the Run Config tab. Choices are:

None This is the default. It allows the XFC/GFC to determine its

own direction based on either DP, pulse inputs, or a digital input. You need to configure these for this to work. **Note:**

Leave set to None if this run is not bi-directional.

I/O Choose this if the XFC/GFC gets its flow direction from one of its digital inputs. If you select this you must ensure that you assign a digital input in the XFC/GFC and connect a

direction switch to that point.

Comms This option means that the Station Manager program sends the XFC/GFC the flow direction via BSAP communications. If you use Station Manager to control valves for bidirectional control then this is most likely the setting you need to use.

X.4 Assigning a Gas Chromatograph (GC) Dataset to a Run

More than likely, if your station has a GC, all the runs for the station receive GC data from the same GC stream. In Station Manager, each stream is called a data set. If you want to set different runs assigned to a station to different data sets you must set the station's data set to 0. To access this setting from the main TechView session, click the

Measurement tab and then click the Status/Configuration button as seen in the screen shot below.

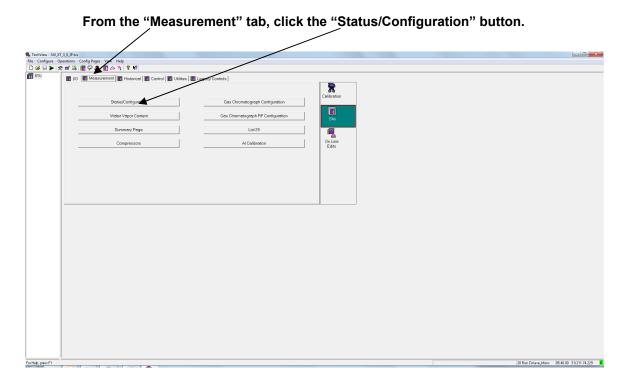


Figure X-6. Measurement tab

From the Status Configuration screen, click the station that includes the GC. In this example, we use Station 1.

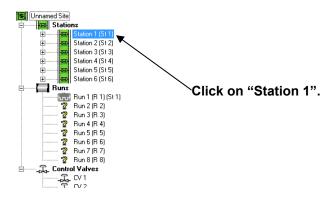


Figure X-7. Selecting the Station

To be able to assign individual GC data sets to individual runs you must first assign the station's Chromatograph Data Set setting to 0 as shown below.

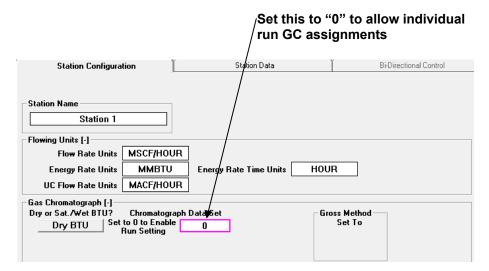


Figure X-8. Chromatograph Data Set on Station Configuration tab

Once this is done, click on the desired run to go to the run config page as shown below.

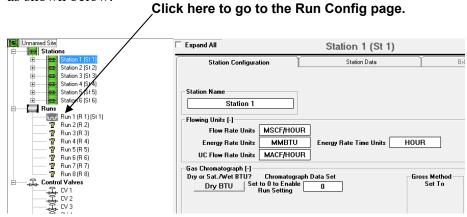


Figure X-9. Choosing the Run

From the run config page you can assign the desired GC data set to the run.

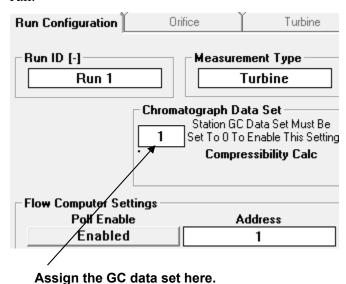


Figure X-10. Chromatograph Data Set

You would repeat this process for each run assigned to the station until all runs are assigned to the desired data set.

X.5 Configuring Compressor Control

The XT version of the Station Manager application can control and report on up to four compressor units.

You access the Compressor Control page by clicking on the

Compressors

button on the Measurement tab.

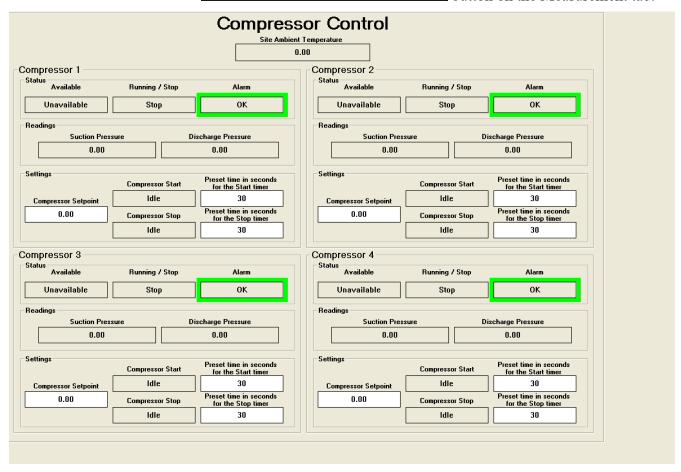


Figure X-11. Compressor Control page

Field	Description
Site Ambient Temperature	This indicates the outside air temperature at the site as reported from a hard wired Al point.
Status	
Available	This indicates if the compressor is available for use. A hard-wired DI point provides this status.
Running/Stop	This indicates if the compressor is running or stopped. A hard-wired DI point provides this status.

Alarm	This indicates if the compressor is in an alarm state. A hard-wired DI point provides this status.
Readings	
Suction Pressure	This indicates the pressure at the inlet of the compressor as reported from a hard wired Al point.
Discharge Pressure	This indicates the pressure at the outlet of the compressor as reported from a hard wired Al point.
<u>Settings</u>	
Compressor Setpoint	You can enter an analog value to control the compressor to this value. A hard wired AO point sends out this value.
Compressor Start	This indicates the status of the compressor start command.
Preset time in seconds for the Start timer	This setting determines the length of the pulse for the Start Command on the hard wired DO point.
Compressor Stop	This indicates the status of the compressor stop command.
Preset time in seconds for the Stop timer	This setting determines the length of the pulse for the Stop Command on the hard wired DO point.

Issued: February 2023

Index

%	on Al Maintenance page3-132, 3-172 Al Point/Run x field
% Good field for Transducers on the I/O tab 2-9	on Al Calibration page3-126 Al PV Type
for Transducers on the I/O tab 2-9	on Al Calibration page3-128
1	Al# field
1 Pulse Per field	for Static Pressure and Flowing Temperature on
on Sampler screen	Run Config tab of Status/Configuration option
on dampior soreon	from Measurement tab
A	on Annubar tab of Status/Configuration option
	from Measurement tab
AC field	from Measurement tab
on RTU configuration tab of Status/Configuration	on V-Cone tab of Status/Configuration option
option from Measurement tab 3-10	from Measurement tab
ACF/s (DeltaVa) field	on Venturi tab of Status/Configuration option
on Auto-Adjust tab of Status/Configuration option from Measurement tab 3-100	from Measurement tab
Action field	Air Density field
on Control Valve screen from Measurement tab	on Coriolis tab of Status/Configuration option
3-122	from Measurement tab 3-107
on Station n Control Valves page from Control	Als field
tab 5-17	on RTU configuration tab of Status/Configuration
Active field	option from Measurement tab 3-11
on Virtual Ports page2-57	Alarm Config Tab
Actual column	for meter run 3-86
on Al Calibration page 3-129	Alarm Enable / Disable button
Add Pen button	on Gas Chromatograph Response Factor page
on PID Tuning page from Control tab 5-44	3-155
on UFM Status tab of Ultrasonic Tests Measured	on Process Monitor Control Configuration page
Values page2-31	from Control tab5-33, 5-34
Addr field	on Process Value Monitor Configuration page
on Gas Chromatograph Configuration screen	from Control tab5-38
from Measurement tab 3-141	Alarm Enabled / Disable button
on Gas Chromatograph Response Factor page	on Process Value Monitor Configuration page from Control tab5-40
Address field	Alarm field
for Transducers on the I/O tab 2-9	for Customer Slave signal list grid on the I/O tab
on Coriolis Measured Values page 2-65	2-23
on Ultrasonic Tests Measured Values page 2-26	Alarm Limit field
Adjust Live Value button	on UFM Configuration 3 tab of Ultrasonic Tests
on Al Configuration page 3-176	Measured Values page2-37
Adjust Live Value field	Alarm Tab - Summary Pages
on Al Maintenance page 3-173	from Measurement tab 3-161
AGA3 Equation in Use field	Allow Local Entry checkbox
on Orifice tab of Status/Configuration option	on Component tab on Gas Chromatograph
from Measurement tab3-91	Configuration screen from Measurement tab3-
AI Calibration 3-125	149
Al Configuration 3-176	on Current tab on Gas Chromatograph
Al Maintenance	Configuration screen from Measurement tab3-
Viewing in Maintenance Mode from	147
Measurement Tab3-131	on Meter Run Staging - Station n page from
Al Maintenance page 3-171	Control tab5-23
Al Point to be Calibrated field	on Station n
on Al Calibration page3-128	Control Valves page from Control tab 5-16 Local Settings page from Control tab 5-15

on Station n Overview page from Control tab5-	Auto Reset Auto Rst Off button
11	on Al Maintenance page 3-131, 3-171
Analog field	Auto Reset Manual field
on Process Monitor Control Configuration page	on Al Maintenance page 3-127
from Control tab 5-31	Auto Reset Off On button
on Process Value Monitor Configuration page	on Run Maintenance page 3-137
from Control tab 5-37	on Station Maintenance page 3-135
on Sampler screen 6-6	Auto Reset On Auto Rst Off button
Analog Inputs (AI)2-6	on Site Maintenance page 3-133
Analog Out field	Auto Reset Time field
on Sampler screen 6-6	on Al Calibration page3-126
Analog Outputs (AO)2-7	on 7 ti Galibration pago 0 120
Analysis Alarm field	В
on Gas Chromatograph Response Factor page	
3-155	Back button
Annubar Tab	on Al Calibration page3-129
for meter run	on Al Maintenance page 3-173
	Back to Summary Page button
Annubar Type field	on Process Monitor Control Configuration page
on Annubar tab of Status/Configuration option	from Control tab5-32
from Measurement tab 3-109	on Process Value Monitor Configuration page
AOs field	from Control tab5-38
on RTU configuration tab of Status/Configuration	Backspace button
option from Measurement tab 3-11	on Math Function6-2
Append File field	Bad Polls field
in Data Storage Parameters dialog box4-4	for Transducers on the I/O tab 2-10
Archive Item Index field	Base Pressure field
in Local History Analog Log page 4-8	on Station Configuration tab of
in Local History Digital Log page 4-16	Status/Configuration option from
Archive Item Index Name field	
in Local History Analog Log page 4-8	Measurement tab
in Local History Digital Log page 4-16	Base Temperature field
Archive Mode not set warning	on Station Configuration tab of
explanation 1-10	Status/Configuration option from
Archive Units Settings page 4-17	Measurement tab 3-25
Archives	Batch edits field
viewing 4-2	on Load Save Configuration page 2-41
ARM button	Battery Status field
on Remote Control Valves page from Control tab	on RTU configuration tab of Status/Configuration
5-7	option from Measurement tab 3-10
Arm State field	Beginning Date field
on Control tab 5-7	for Time Set and Daylight Saving Time screen
on Remote Control Valves page from Control tab	from I/O tab2-55
5-7	Beta Ratio field
Assignment field	on Alarm Config tab of Status/Configuration
for Analog Input on the I/O tab 2-7	option from Measurement tab 3-87
for Analog Output on the I/O tab 2-7	on Annubar tab of Status/Configuration option
	from Measurement tab 3-112
for Discrete Input on the I/O tab 2-6	on Orifice tab of Status/Configuration option
for Discrete Output on the I/O tab 2-6	from Measurement tab
for High Speed Counters on the I/O tab2-8	on V-Cone tab of Status/Configuration option
Atmospheric Pressure field	from Measurement tab
on Station Configuration tab of	on Venturi tab of Status/Configuration option
Status/Configuration option from	from Measurement tab
Measurement tab 3-24	Bi-Directional Control Tab from
Auto Scale field	Status/Configuration button
on UFM Status tab of Ultrasonic Tests Measured	on Measurement Tab
Values page2-32	
Auto Adjust Tab	Binary field on UFM Status tab of Ultrasonic Tests Measured
for meter run 3-98	
	Values page 2-29

IND-2 Index Issued February 2023

Block Valve Assignment field	C2 Factor field
on Meter Run Staging - Station n page from	on Annubar tab of Status/Configuration option
Control tab5-25	from Measurement tab 3-110
Block Valve Control Type field	C2 field
on Meter Run Staging - Station n page from	on Gas Chromatograph Response Factor page
Control tab	3-155
Boolean Result field	C3 field
on Math Function6-3	on Gas Chromatograph Response Factor page
Boot Project File field	3-155
on Load Save Configuration page 2-40	C6+ field
BOOTFILE Date field	on Gas Chromatograph Response Factor page
on RTU configuration tab of Status/Configuration	3-156
option from Measurement tab 3-9	C9+ field
BOOTFILE Name field	on Gas Chromatograph Response Factor page
on RTU configuration tab of Status/Configuration	3-156
option from Measurement tab 3-9	Calculations Using
BSAP field	field on Station Configuration tab of
for Customer Slave on the I/O tab 2-19	Status/Configuration option from
for Generic MB sub-tab of I/O tab 2-50	Measurement tab3-29
BSAP Receive List 13 field	Calculator field
for Customer Slave on the I/O tab 2-22	
	on Math Function
BSAP Receive List field	Calibration Pressure field
for Generic MB sub-tab of I/O tab 2-53	on Coriolis tab of Status/Configuration option
BSAP Send List 12 field	from Measurement tab 3-107
for Customer Slave on the I/O tab 2-22	Call Next Dead Band field
BSAP Send List field	on Meter Run Staging - Station n page from
for Generic MB sub-tab of I/O tab 2-53	Control tab 5-25
BSAP Server ID field	Call Next Set Point field
for Customer Slave on the I/O tab 2-22	on Meter Run Staging - Station n page from
BSAP Server ID Status field	Control tab5-25
for Generic MB sub-tab of I/O tab 2-53	Call Prev Dead Band field
BSAP Server List # field	on Meter Run Staging - Station n page from
for Generic MB sub-tab of I/O tab 2-53	Control tab5-25
BSAP Slave Address field	Call Prev Set Point field
for Customer Slave on the I/O tab 2-22	on Meter Run Staging - Station n page from
for Generic MB sub-tab of I/O tab 2-53	Control tab5-25
BSAP Status field	Called to field
for Customer Slave on the I/O tab 2-22	on Meter Run Staging - Station n page from
BSAP/MODBUS button	Control tab5-26
for Transducers on the I/O tab 2-9	Cancel button
BV# field	for Floating Point Format dialog box . 2-24
on Bi-Directional Control tab of	on Al Calibration page3-129
Status/Configuration option from	on Al Maintenance page 3-173
Measurement tab 3-41	CH4 field
Bypass Mode Current State Enabled-Disabled	on Gas Chromatograph Response Factor page
button	3-155
on Station n Overview page from Control tab 5-	Channel field
11	on HART Configuration page 2-11
•	Characters remaining field
C	on Math Function6-2
	Check Flow Rate Enabled / Disabled button
C Factor field	
on Auto-Adjust tab of Status/Configuration	on Meter Run Staging - Station n page from
option from Measurement tab 3-99	Control tab5-22
on Turbine tab of Status/Configuration option	Check Values field
from Measurement tab 3-96	on Gas Chromatograph Configuration screen
C1 Factor field	from Measurement tab 3-144
on Annubar tab of Status/Configuration option	Checksum field
from Measurement tab 3-110	on Ultrasonic Tests Measured Values page. 2-26

Chromatograph Data Set field	Comm Failure Alarm Delay field on Ultrasonic
on Run Config tab of Status/Configuration option	Tests Measured Values page2-34
from Measurement tab 3-77	Comm Failure field
on Station Configuration tab of	on HART Configuration page 2-12
Status/Configuration option from	Comm field
Measurement tab 3-28	on HART Configuration page 2-11
Clear button	on Wireless HART Configuration page2-14
on Math Function 6-2	Comm Mode field
Clear Registers button	on Gas Chromatograph Configuration screen
for Time Set and Daylight Saving Time screen	from Measurement tab3-141
from I/O tab	on HART Configuration page 2-11
Click to Configure button	Comm Status field
on Process Monitor Control page from Control	on Coriolis Measured Values page 2-66
tab 5-30	on Gas Chromatograph Response Factor page
on Process Value Monitor Summary page from	3-154
Control tab 5-36	Comms field
Click to Hide field	on Gas Chromatograph Configuration screen
for Archive Mode warning 1-10	from Measurement tab 3-141
Click to Set Archives button	Component Delta field on Delta Limit tab
for Archive Mode warning 1-10	on Gas Chromatograph Configuration screen
Closed LS field	from Measurement tab 3-150
on Bi-Directional Control tab of	Compressibility Calc field
Status/Configuration option from	on Run Config tab of Status/Configuration option
Measurement tab 3-36	from Measurement tab 3-78
Coils List 12 field	on Station Configuration tab of
for Customer Slave on the I/O tab 2-21	Status/Configuration option from
Collect Data button	Measurement tab3-29
on Audit Log page 4-3	Cone Diameter field
Collect Diagnostic Data every field	on V-Cone tab of Status/Configuration option
on MVT Common Settings tab of	from Measurement tab3-117
Status/Configuration option from	Cone Type field
Measurement tab	for material on V-Cone tab of
Collect List button	Status/Configuration option from
for Customer Slave signal list grid on the I/O tab	Measurement tab
2-23	Configure button
Collect Local Logs button	on Al Maintenance page 3-175
Collect Process Variable (PV) Data field	Consecutive Failures field
on MVT Common Settings tab of	on Ultrasonic Tests Measured Values page 2-26
	Contract Hour field
Status/Configuration option from Measurement tab	
	on Station Configuration tab of
Collection Rate field	Status/Configuration option from
for Generic MB sub-tab of I/O tab 2-52	Measurement tab 3-25
Com n field	Control Enable field
on Historical Configuration tab of	on Process Monitor Control Configuration page
Status/Configuration option from	from Control tab5-33
Measurement tab 3-20	on Process Value Monitor Configuration page
Com Select IP Serial button	from Control tab5-38
on Ultrasonic Tests Measured Values page 2-26	Control field
Comm % Min field	for Customer Slave signal list grid on the I/O tab
on UFM Configuration 1 tab of Ultrasonic Tests	2-23
Measured Values page 2-34	Control Output Type field
Comm %field	on Remote Control Valves page from Control tab
on UFM Status tab of Ultrasonic Tests Measured	5-5
Values page 2-28	Control tab 5-1
Comm Configuration Tab from Status/Configuration	Control Type field
button	on Bi-Directional Control tab of
on Measurement Tab 3-20	Status/Configuration option from
	Measurement tab

IND-4 Index Issued February 2023

Control Valve Quick Config from Measurement Tab	on UFM Status tab of Ultrasonic Tests Measured Values page2-30
Convert Data to Extended Format field	Cross Flow Factor Max field
in Data Storage Parameters dialog box4-4 Convert to CSV field	on UFM Configuration 3 tab of Ultrasonic Tests Measured Values page2-37
	Cross Flow Factor Min field
in Log page4-13 Coriolis Modbus Interface2-65	
	on UFM Configuration 3 tab of Ultrasonic Tests
Coriolis Number field	Measured Values page2-37
on Coriolis Measured Values page 2-65	Current
Coriolis Tab	Current Control Mode field
for meter run	on Station n Overview page from Control tab 5-
Corrected Energy Rate field	11
on Turbine tab of Status/Configuration option	Current in Use Values field
from Measurement tab 3-97	on Gas Chromatograph Response Factor page
Corrected Flow Rate field	
on Auto-Adjust tab of Status/Configuration	Current Mode field
option from Measurement tab 3-100	on Ultrasonic Tests Measured Values page. 2-26
on Coriolis tab of Status/Configuration option	Current Number of Alarms field
from Measurement tab3-107	on RTU configuration tab of Status/Configuration
on PD tab of Status/Configuration option from	option from Measurement tab 3-12
Measurement tab 3-105	Current Number of Events field
on Turbine tab of Status/Configuration option	on RTU configuration tab of Status/Configuration
from Measurement tab3-97	option from Measurement tab 3-12
on Ultrasonic tab of Status/Configuration option	Current PC Date and Time field
from Measurement tab3-103	for Time Set and Daylight Saving Time screen
Correction Factor (K) field	from I/O tab2-54
on Auto-Adjust tab of Status/Configuration	Current Rank field
option from Measurement tab 3-99	on Meter Run Staging - Station n page from
on Coriolis tab of Status/Configuration option	Control tab5-22
from Measurement tab 3-107	Current Rate field
on PD tab of Status/Configuration option from	on Annubar tab of Status/Configuration option
Measurement tab	from Measurement tab
on Turbine tab of Status/Configuration option	on Orifice tab of Status/Configuration option
from Measurement tab	from Measurement tab
on Ultrasonic tab of Status/Configuration option	on V-Cone tab of Status/Configuration option
from Measurement tab3-102	from Measurement tab
Correction Factor / Pulse / Second field	on Venturi tab of Status/Configuration option
on PD tab of Status/Configuration option from	from Measurement tab3-116
· · · · · · · · · · · · · · · · · · ·	
Measurement tab	Current RTU Date and Time field
on Turbine tab of Status/Configuration option	for Time Set and Daylight Saving Time screen
from Measurement tab	from I/O tab
on Ultrasonic tab of Status/Configuration option	Current Source field
from Measurement tab 3-102	on Gas Chromatograph Configuration screen
Counts field	from Measurement tab 3-142
for High Speed Counters on the I/O tab2-8	Current State field
on Coriolis tab of Status/Configuration option	on Bi-Directional Control tab of
from Measurement tab 3-107	Status/Configuration option from
on PD tab of Status/Configuration option from	Measurement tab3-34, 3-35, 3-41
Measurement tab 3-105	Current State field
on Sampler screen 6-7	for UFM on the I/O tab2-26
on Turbine tab of Status/Configuration option	on Comm Configuration tab of
from Measurement tab 3-96	Status/Configuration option from
on Ultrasonic tab of Status/Configuration option	Measurement tab3-20, 3-21
from Measurement tab 3-102	on Coriolis Measured Values page 2-65
Create File field	on Historical Configuration tab of
in Data Storage Parameters dialog box4-4	Status/Configuration option from
Cross Factor field	Measurement tab3-17, 3-18, 3-19

on Ultrasonic Tests Measured Values page 2-25,	Date field
2-26, 2-27	on Gas Chromatograph Configuration screen
Current State field	from Measurement tab 3-145
on Gas Chromatograph Response Factor page	Date field on Current tab
3-155	on Gas Chromatograph Configuration screen
Current State fields	from Measurement tab 3-147
on Gas Chromatograph Response Factor page	Day field
3-155	for Time Set and Daylight Saving Time screen
Current Status field	from I/O tab2-55
for Transducers on the I/O tab 2-10	Daylight saving time
on Station Configuration tab of	Time Set / Daylight Saving Time screen
Status/Configuration option from	from I/O tab
Measurement tab 3-30	Daylight Saving Time Enabled/Disabled button
Current Time State field	for Time Set and Daylight Saving Time screen
for Time Set and Daylight Saving Time screen	from I/O tab 2-55
from I/O tab 2-55	DC field
Current Values fields	on RTU configuration tab of Status/Configuration
on Process Monitor Control page from Control	option from Measurement tab 3-10
tab5-33, 5-39	Dead Band field
Current Valve Position field	on GP PIDs page from Control tab 5-41
on Remote Control Valves page from Control tab	Dead Band field for Stacked or Redundant
5-6	Transmitters
CV field	
	on Annubar tab of Status/Configuration option
on Control Valve screen from Measurement tab	from Measurement tab3-112
3-122	on Orifice tab of Status/Configuration option
_	from Measurement tab 3-93
D	on V-Cone tab of Status/Configuration option
D field	from Measurement tab3-120
	on Venturi tab of Status/Configuration option
on GP PIDs page from Control tab 5-42	from Measurement tab 3-115
on PID Tuning page from Control tab 5-44	Deadband BTU field on Component tab
Data Delimiter field	on Gas Chromatograph Configuration screen
in Data Storage Parameters dialog box4-4	from Measurement tab 3-149
Data field	DeadBand field
on Comm Configuration tab of	on PID Tuning page from Control tab 5-44
Status/Configuration option from	De-Energize button
Measurement tab 3-22	on Remote Control Valves page from Control tab
Data Line Monitor (DLM) 2-16	5-6
Data Set field	DegF field on Current tab
on Gas Chromatograph Configuration screen	
from Measurement tab 3-140	on Gas Chromatograph Configuration screen
on Gas Chromatograph Response Factor page	from Measurement tab 3-147
	Delay field
Data Size field	for Generic MB sub-tab of I/O tab 2-52
for Customer Slave on the I/O tab 2-20	Delay Time field
for Generic MB sub-tab of I/O tab 2-51	for Customer Slave on the I/O tab 2-21
	Delta Alarm field
Data Storage button	on Gas Chromatograph Response Factor page
on Audit Log page4-3	3-155
Data Storage Parameters dialog box 4-4	Delta field on Delta Limit tab
Data Type field	on Gas Chromatograph Configuration screen
for Customer Slave signal list grid on the I/O tab	from Measurement tab 3-150
2-23	Delta Limit field
on Comm Configuration tab of	
Status/Configuration option from	on Gas Chromatograph Response Factor page
Measurement tab 3-22	3-155
Data Type selection box	Delta-Abar fields
on Comm Configuration tab of	on Alarm Config tab of Status/Configuration
Status/Configuration option from	option from Measurement tab 3-87
Measurement tah 3-22	Demand field

IND-6 Index Issued February 2023

on Bi-Directional Control tab of	for Archive Mode warning1-10
Status/Configuration option from	Disabled / Enabled button
Measurement tab 3-42	on PID Tuning page from Control tab 5-44
Density Calibration field	on Sampler screen 6-6
on Ćoriolis Measured Values page 2-68	on Station n Overview page from Control tab 5-
Density field	11
on Ánnubar tab of Status/Configuration option	Disabled/Enabled field
from Measurement tab3-110	for Generic MB sub-tab of I/O tab 2-53
on Coriolis Measured Values page 2-68	Discharge Coefficient field
Density From Frequency field	on V-Cone tab of Status/Configuration option
on Coriolis Measured Values page 2-69	from Measurement tab 3-118
Description field	on Venturi tab of Status/Configuration option
in Log page 4-12	from Measurement tab
on Math Function6-3	Discrete Input fields
Descriptor field	on Bi-Directional Control tab of
on HART Configuration page 2-13	Status/Configuration option from
on Wireless HART Configuration page2-14	Measurement tab
Dev Limit (% of Full Scale) field	
	Discrete Inputs (DI)
on Al Configuration page	Discrete Outputs (DO)
Deviation (Delta Abar) field	Display Descriptors field
on Auto-Adjust tab of Status/Configuration	for Customer Slave signal list grid on the I/O tab
option from Measurement tab 3-100	2-23
Deviation column	Dmd field
on Al Calibration page 3-129	on Control Valve screen from Measurement tab
Deviation Limit field	3-122
on Al Calibration page3-127	DOs field
Device field	on RTU configuration tab of Status/Configuration
on HART Configuration page 2-11, 2-12	option from Measurement tab 3-11
on Wireless HART Configuration page2-14	DP field
Device File Name field	for Transducers on the I/O tab 2-10
on Al Maintenance page 3-175	on Run Maintenance page 3-138
Device ID field	Drive Gain field
on HART Configuration page 2-11	on Coriolis Measured Values page 2-69
on Wireless HART Configuration page2-14	
Diff Pressure fields	E
on Alarm Config tab of Status/Configuration	Felit Onemia hauttan
option from Measurement tab 3-86	Edit Graph button
Difference Max field	on UFM Status tab of Ultrasonic Tests Measured
on UFM Configuration 2 tab of Ultrasonic Tests	Values page2-32
Measured Values page 2-36	Edit Graph field
Digital field	on PID Tuning page from Control tab 5-44
on Process Monitor Control Configuration page	Elapsed Time field
from Control tab5-31	on Al Maintenance page3-132, 3-172
on Process Value Monitor Configuration page	on Annubar tab of Status/Configuration option
from Control tab5-37	from Measurement tab 3-112
Direction field	on Orifice tab of Status/Configuration option
on Run Config tab of Status/Configuration option	from Measurement tab 3-93
from Measurement tab	on Run Maintenance page3-138
	on Site Maintenance page 3-134
DIs field	on Station Maintenance page 3-136
on RTU configuration tab of Status/Configuration	on V-Cone tab of Status/Configuration option
option from Measurement tab 3-11	from Measurement tab 3-120
Disable Comms - Enable Comms button	on Venturi tab of Status/Configuration option
on Gas Chromatograph Response Factor page	from Measurement tab
	Enable
Disable Station Control Manual Mode Warning	Enable Disable button
checkbox	for Hold Last Input Value on Q-Bit on RTU
on Al Calibration page3-128	configuration tab of Status/Configuration
Disable warning for one hour field	option from Measurement tab 3-10
	OUTOU TOUT MEGAUTERIES AU 3º 10

on Coriolis Measured Values page 2-65	on PD tab of Status/Configuration option from
on HART Configuration page 2-11	Measurement tab 3-105
on Ultrasonic Tests Measured Values page 2-25,	on Ultrasonic tab of Status/Configuration option
2-26, 2-27	from Measurement tab 3-103
on Wireless HART Configuration page2-14	Energy Rate Fwd field
Enable/Disable audit logging of gas composition	on Station Summaries tab of
parameter change button on Historical	Status/Configuration option from
Configuration tab of Status/Configuration option	Measurement tab3-15
from Measurement tab 3-19	Energy Rate Rev field
Enable/Disable audit logging of measurement	on Station Summaries tab of
parameter change button on Historical	Status/Configuration option from
Configuration tab of Status/Configuration option	Measurement tab
from Measurement tab	Energy Rate Time Units field
Enable/Disable button	on Station Configuration tab of
on Comm Configuration tab of	Status/Configuration option from
Status/Configuration option from	Measurement tab
Measurement tab3-20, 3-21	Energy Rate Units field
Enable/Disable calibration end log break button	on Station Configuration tab of
on Historical Configuration tab of	Status/Configuration option from
Status/Configuration option from	Measurement tab
Measurement tab	Enron Modbus field
	for Customer Slave on the I/O tab 2-19
Enable/Disable gas component log break button	
on Historical Configuration tab of	Enter Edit Comments button
Status/Configuration option from	on Al Calibration page3-129
Measurement tab	Entry Order button
Enable/Disable log break button	on Al Configuration page3-177
on Historical Configuration tab of	Entry Order field
Status/Configuration option from	on Al Calibration page 3-127
Measurement tab	Error CodesE-1
Enable/Disable Q-Bit log break button	Execute button
on Historical Configuration tab of	on Remote Control Valves page from Control tab
Status/Configuration option from	5-7
Measurement tab 3-18	Execute Only, Arm and Execute fields
Enable/Disable standard archive operation button	on Remote Control Valves page from Control tab
on Historical Configuration tab of	5-7, 5-7
Status/Configuration option from Measurement	Execute State field
tab 3-19	on Remote Control Valves page from Control tab
Enable/Disable time synch log break button	5-7
on Historical Configuration tab of	Expand Tube Control Settings field
Status/Configuration option from	on Meter Run Staging - Station n page from
Measurement tab 3-18	Control tab 5-23
Enabled/Disabled alarm button	Expansion Factor field
on Alarm Config tab of Status/Configuration	on Venturi tab of Status/Configuration option
option from Measurement tab 3-87	from Measurement tab 3-114
Enabled/Disabled button	Expected Deviation (Abar) field
for Transducers on the I/O tab 2-9	on Auto-Adjust tab of Status/Configuration
End button	option from Measurement tab 3-99
on Al Calibration page 3-129	Expected State for Forward Direction field
on Al Maintenance page 3-173	on Bi-Directional Control tab of
Ending Date field	Status/Configuration option from
for Time Set and Daylight Saving Time screen	Measurement tab
from I/O tab 2-55	Exponent field
Energy Rate field	for Floating Point Format dialog box . 2-24
on Auto-Adjust tab of Status/Configuration	External Measurement (XT) version1
option from Measurement tab 3-100	External Moderation (X1) Voloion
on Coriolis tab of Status/Configuration option	F
from Measurement tab 3-107	ı
110111 WICASALCHIGHT TAD	Failure Mode button

IND-8 Index Issued February 2023

on Meter Run Staging - Station n page from	2-19. UFM Configuration 3 page 2-37
Control tab 5-23	2-20. Load-Save Configuration – Configuration
Failure Mode field	tab2-39
on Bi-Directional Control tab of	2-21. Load-Save Configuration – Load
Status/Configuration option from	Configuration tab2-40
Measurement tab 3-39	2-22. ControlWave ScriptTool Performs Files
Feedback field	Save Operations2-47
on Control Valve screen from Measurement tab	2-23. Generic Modbus Master 2-49
3-123	2-24. Time Set-Daylight Saving Time page 2-54
Fields	2-25. Virtual Ports page2-56
entering data in1-9	2-26. User Defined Page 2-59
Figures	2-27. Links added to page2-64
1-1. Station Manager Installer Setup Screen . 1-3	2-28. Coriolis tab2-65
1-2. Station Manager Installer – Welcome	3-1. Measurement Tab 3-2
Screen1-4	3-2. Configuration Tree Structure 3-3
1-3. Station Manager Installer – Read Me1-4	3-3. Assigning a Run or Valve to a Station Using
1-4. License Agreement page 1-5	Drag and Drop3-5
1-5. Selecting Application	3-4. Opening Menus in Quick Config 3-6
1-6. Installation Completion 1-6	3-5. Selecting Pages From Pop-up Menus 3-6
1-7. Exit the Installer	3-6. Hidden Sections on the Page 3-6
1-8. Station Manager TVS file icons 1-7	3-7. Viewing All Fields in a Section 3-7
1-9. IP Runtime Parameters1-7	3-8. RTU Configuration data tab 3-8
1-10. Serial Runtime Parameters 1-8	3-9. MVT Common Settings tab 3-13
1-11. Logging onto the ControlWave Micro 1-8	3-10. Station Summaries tab3-15
1-12. Tabs and Buttons in Station Manager 1-9	3-11. Historical Configuration tab 3-17
1-13. Archive Mode Not Set Warning 1-10	3-12. Comm Configuration tab 3-17
1-14. Collect Local Archives 1-11	3-13. Station Configuration tab 3-20
1-15. Reset ControlWave Unit 1-12	3-14. Station Data tab
1-16. Clear RTU History1-12	3-15. Bi-Directional Control tab 3-32
1-17. Calling Up DataView	3-16. Fields on Bi-Directional Control tab for
1-18. Enron Modbus Icon in ACCOL3 Function	Single Discrete Input Choice 3-34
Block Help	3-17. Fields on Bi-Directional Control tab for
1-19. Verify Modbus Archive Mode selection1-14	Limit Switch / DI Sense Choice 3-34
1-20. Setting the Archive Storage Mode	3-18. Limit Switch / Sensing DI 3-35
selection	3-19. Limit Switch / Sensing DI – Reverse Flow
1-21. Title Block at Top of Screens 1-15	3-35
1-22. Status Grid	3-20. Block Valve Dual LS Sense 3-36
1-23. Viewing the Detail Message 1-17	3-21. Block Valve Dual LS Sense 3-37
2-1. I/O Tab in Station Manager 2-1	3-22. Block Valve Dual LS Sense 3-37
2-2. I/O Usage Screen Showing I/O Modules	3-23. Bi-Directional Control Tab – Programmed
Detected2-2	Control Section
2-3. Mixed I/O Module2-3	3-24. Programmed Control - Bi-Directional
2-4. Connection Points for Physical I/O2-4	Control
2-5. Assigning Discrete Input 1 2-4	3-25. Programmed Control - Bi-Directional
2-6. Viewing Configuration of Ports 2-5	Control3-44
2-7. Transducers Page2-9	3-26. Programmed Control - Bi-Directional
2-8. HART Configuration 2-11	Control3-44
2-9. Wireless HART Configuration 2-13	3-27. Programmed Control - Bi-Directional
2-10. Sample WHART_KEY INI File . 2-15	Control3-45
2-11. Local DLM2-17	3-28. Programmed Control - Bi-Directional
2-12. Customer Slave Page 2-18	Control
2-13. Signal List Grid Control 2-22	3-29. Programmed Control - Bi-Directional
2-14. Floating Point Format dialog box2-24	Control3-46
2-15. Ultrasonic Tests Measured Values page 2-	3-30. Programmed Control - Bi-Directional
25	Control
2-16. Adding Pens2-33	3-31. Programmed Control - Bi-Directional
2-17. UFM Configuration 1 page 2-34	Control
2-18. UFM Configuration 2 page 2-35	

3-32. Programmed Control - Bi-Directional	3-61. Configuring General tab (for Run 2) in Bi-
Control 3-47	Directional Control (Example 4) 3-70
3-33. Configuring I/O for Bi-Directional Control	3-62. Configuring Run 2 Orifice tab for Bi-
(Example 1) 3-49	Directional Control (Example 4) 3-71
3-34. Configuring Station 1 for Bi-Directional	3-63. Configuring Station 1 for Bi-Directional
Control (Example 1) 3-50	Control (Example 5) 3-72
3-35. Configuring Station 2 for Bi-Directional	3-64. Configuring Station 2 for Bi-Directional
Control (Example 1) 3-50	Control (Example 5) 3-73
3-36. Configuring Run 1 for Bi-Directional	3-65. Configuring Run 1 for Bi-Directional
Control (Example 1) 3-51	Control (Example 5) 3-74
3-37. Configuring Run 1 Orifice tab for Bi-	3-66. Configuring Run 1 Orifice tab for Bi-
Directional Control (Example 1) 3-52	Directional Control (Example 5) 3-74
3-38. Configuring General tab (for Run 2) Bi-	3-67. Configuring General tab (for Run 2) in Bi-
Directional Control (Example 1) 3-52	Directional Control (Example 5) 3-75
3-39. Configuring Run 2 Orifice tab for Bi-	3-68. Configuring Run 2 Orifice tab for Bi-
Directional Control (Example 1) 3-53	Directional Control (Example 5) 3-76
3-40. Configuring I/O for Bi-Directional Control	3-69. General tab (Runs)
(Example 2)	3-70. Alarm Config tab
3-41. Configuring Station 1 for Bi-Directional	3-71. Linrztion Config tab
Control (Example 2)	3-72. PV/GQ Averages tab
3-42. Configuring Station 2 for Bi-Directional	3-73. Orifice tab
Control (Example 2)	3-74. Turbine tab
3-43. Configuring Run 1 for Bi-Directional	3-75. Auto-Adjust tab
Control (Example 2)	3-76. Ultrasonic tab
3-44. Configuring Run 1 Orifice tab for Bi-	3-77. PD tab
Directional Control (Example 2) 3-57	3-78. Coriolis tab
3-45. Configuring General tab (for Run 2) in Bi-	3-79. Annubar tab
Directional Control (Example 2) 3-58	3-80. Venturi tab
3-46. Configuring Run 2 Orifice tab for Bi-	3-81. V-Cone tab
Directional Control (Example 2) 3-59	3-82. Quick Valve Config
3-47. Configuring Run 1 I/O for Bi-Directional	3-83. Process Values
Control (Example 3)	3-84. Al Calibration
3-48. Configuring Run 2 I/O for Bi-Directional	3-85. Al Calibration – Config Settings3-126
Control (Example 3)	3-86. Al Calibration – Ready to Start Calibration
3-49. Configuring Station 1 for Bi-Directional	Process 3-130
Control (Example 3)	3-87. Combined Report Filename 3-130
3-50. Configuring Station 2 for Bi-Directional	3-88. Al Maintenance 3-131
Control (Example 3)	3-89. Site Maintenance
3-51. Configuring Run 1 for Bi-Directional	3-90. Site Maintenance 3-134
Control (Example 3)	3-91. Station Maintenance 3-135
3-52. Configuring Run 1 Orifice for Bi-Directional	3-92. All Stations Maintenance 3-136
Control (Example 3)	3-93. Run Maintenance 3-137
3-53. Configuring General tab (for Run 2) in Bi-	3-94. All Runs Maintenance 3-139
Directional Control (Example 3) 3-64	3-95. Gas Chromatograph Configuration3-140
3-54. Configuring Run 2 Orifice tab for Bi-	3-96. Gas Chromatograph Configuration –
Directional Control (Example 3) 3-65	Current sub-tab 3-146
3-55. Configuring Run 1 I/O for Bi-Directional	3-97. Gas Chromatograph Configuration –
Control (Example 4)	Component sub-tab3-148
3-56. Configuring Run 2 I/O for Bi-Directional	3-98. Gas Chromatograph Configuration – Delta
Control (Example 4)3-67	Limit sub-tab3-150
3-57. Configuring Station 1 for Bi-Directional	3-99. Gas Chromatograph Configuration –
Control (Example 4) 3-67	Normalization sub-tab 3-151
3-58. Configuring Station 2 for Bi-Directional	3-100. Gas Chromatograph Configuration –
Control (Example 4) 3-68	Custom sub-tab – Daniel User Defined3-152
3-59. Configuring Run 1 for Bi-Directional	3-101. Gas Chromatograph Configuration –
Control (Example 4) 3-69	Custom sub-tab – User Defined (List)3-153
3-60. Configuring Run 1 Orifice tab for Bi-	3-102. Gas Chromatograph Response Factor . 3
Directional Control (Example 3) 3-69	154

IND-10 Index Issued February 2023

3-103. Summary Page - Measurement-tab 3-157	6-3. Sampler6-5
3-104. Summary Page – Measurement Detail	6-4. Recipe Feature6-8
tab 3-158	6-5. Insert Signal Property dialog box . 6-9
3-105. Summary Page – PID Control tab3-159	6-6. Signal List to Load6-9
3-106. Summary Page – Meter Run Staging tab	6-7. Edit Signal Property6-9
3-160	6-8. Float Format dialog box 6-10
3-107. Summary Page – Alarm tab. 3-161	6-9. Saving the Recipe 6-11
3-108. Water Vapor Content 3-163	6-10. User-Defined Screen Configuration6-12
3-109. List 29 3-170	6-11. User-Defined Screen 6-13
3-110. Al Maintenance page 3-171	X-1. Measurement tabX-2
3-111. Al Configuration page 3-176	X-2. Choosing the RunX-3
4-1. Historical Tab in Station Manager 4-1	X-3. External Flow Computer Settings (XT) X-4
4-2. Selecting a Log to View4-2	X-4. Selecting the StationX-5
4-2. Archive 4-2	X-5. Direction Feedback fieldX-5
4-4. Audit Log 4-3	
	X-6. Measurement tabX-6
4-5. Data Storage Parameters dialog box4-4	X-7. Selecting the StationX-6
4-6. Select Data Collection Criteria dialog box4-5	X-8. Chromatograph Data Set on Station
4-7. Local History Analog Log 4-6	Configuration tabX-7
4-8. Selecting Logs for Collection 4-9	X-9. Choosing the RunX-8
4-9. Selecting a Single Log for Collection4-10	X-10. Chromatograph Data SetX-8
4-10. Collecting Multiple Archives 4-11	X-11. Compressor Control pageX-9
4-11. User Configurable Archive 4-14	File field
4-12. Local History Digital Log 4-15	in Data Storage Parameters dialog box4-4
4-13. Archive Units 4-17	File Load Path field
5-1. Control Tab in Station Manager 5-1	on Load Save Configuration page 2-40
5-2. Control Tab – Local/Remote Settings page	File Save Path
5-2	field on Al Calibration page3-128
5-3. Stations sub-tab in Local/Remote Settings	File Save Path field
page 5-4	on Load Save Configuration page 2-40
5-4.Configuring a Valve5-5	Fixed field
5-5. Station Overview tab – from Control tab 5-10	on Gas Chromatograph Configuration screen
5-6. Station Configuration tab- from Control tab	from Measurement tab 3-144
5-12	Fixed field on Component tab
5-7. Flow/Energy Loop 5-12	on Gas Chromatograph Configuration screen
5-8. Meter Protection Config tab 5-14	from Measurement tab 3-149
5-9. Local Settings tab - from Control tab5-14	Fixed field on Current tab
5-10. Station n Control Valves Sub-tab - from	on Gas Chromatograph Configuration screen
Control tab 5-16	from Measurement tab 3-148
5-11. Control Valve Configuration - from Control	Fixed Last Value button
tab 5-16	on Run Maintenance page 3-138
5-12. Selecting Control Valves - from Control tab	Flag Changes field
5-18	on PID Tuning page from Control tab 5-44
5-13. Enabling Station Control - from Control tab	on UFM Status tab of Ultrasonic Tests Measured
5-19	Values page2-32
5-14. Meter Run Staging - from Control tab . 5-21	Flash Configuration File field
5-15. Process Monitor Control - from Control tab	on Load Save Configuration page 2-41
5-29	Floating Point Format2-23
5-16. Process Monitor Control - from Control tab	Floating Point Format button
5-31	for Customer Slave signal list grid on the I/O tab
5-17. Process Value Monitor - from Control tab5-	2-23
35	Flow Calibration Pressure field
5-18. Process Value Monitor Configuration -	on Coriolis Measured Values page 2-69
from Control tab5-37	Flow Permissive fields
5-19. General Purpose PID - from Control tab. 5-	on Station Configuration tab of
41	Status/Configuration option from
5-20. PID Tuning - from Control tab 5-43	Measurement tab3-24
6-1. Utilities Tab in Station Manager 6-1	Flow Rate field
6.2 Moth Functions	I IOW IVAIC IICIU

on Meter Run Staging - Station n page from	on Alarm Config tab of Status/Configuration
Control tab 5-23	option from Measurement tab 3-87
Flow Rate fields	Frequency From Comms field
on Alarm Config tab of Status/Configuration	on Ultrasonic tab of Status/Configuration option
option from Measurement tab 3-86	from Measurement tab 3-103
Flow Rate Fwd field	FT field
on Station Summaries tab of	for Transducers on the I/O tab 2-10
Status/Configuration option from	on Run Maintenance page 3-138
Measurement tab 3-15	Full Scale Actual field
Flow Rate Rev field	on Al Maintenance page 3-174
on Station Summaries tab of	Full Scale Deviation field
Status/Configuration option from	on Al Maintenance page 3-174
Measurement tab 3-15	Full Scale Tester field
Flow Rate Units field	on Al Maintenance page 3-174
on Station Configuration tab of	Function Code field
Status/Configuration option from	for Generic MB sub-tab of I/O tab 2-51
Measurement tab	
Flow Validation Must Exceed field	G
on Meter Run Staging - Station n page from	•
Control tab 5-28	Gain field
Flowing Units fields	on UFM Status tab of Ultrasonic Tests Measured
on Run Config tab of Status/Configuration option	Values page 2-29
from Measurement tab	Gas Chromatograph Configuration
Force Adjust Live Value field	button on Measurement tab 3-140
on Al Calibration page3-127	Gas Chromatograph Configuration - Component
Force Zero Shift field	Tab
	from Measurement tab 3-148
on Al Calibration page	Gas Chromatograph Configuration - Current Tab
	from Measurement tab 3-146
on Comm Configuration tab of	Gas Chromatograph Configuration - Custom Tab
Status/Configuration option from	from Measurement tab 3-152
Measurement tab	Gas Chromatograph Configuration - Delta Limit
Forward / Reverse Direction fields	Tab
on Bi-Directional Control tab of	from Measurement tab 3-150
Status/Configuration option from	Gas Chromatograph Configuration - Normalization
Measurement tab	Tab
Forward State field	from Measurement tab 3-151
on Bi-Directional Control tab of	Gas Chromatograph RF Configuration
Status/Configuration option from	button on Measurement tab 3-154
Measurement tab 3-36	GC Arrays Section fields
Forward/Reverse	on Load Save Configuration page 2-44
on Station Data tab of Status/Configuration	GC Averaging Method field
option from Measurement tab 3-30	on Station Configuration tab of
FPV Q Bit High Low fields	Status/Configuration option from
on Alarm Config tab of Status/Configuration	Measurement tab
option from Measurement tab 3-87	GC field
Freq field	
on Run Maintenance page 3-138	on Comm Configuration tab of
Frequency field	Status/Configuration option from
on Coriolis tab of Status/Configuration option	Measurement tab
from Measurement tab 3-107	GC field on Component tab
on PD tab of Status/Configuration option from	on Gas Chromatograph Configuration screen
Measurement tab3-105	from Measurement tab
on Turbine tab of Status/Configuration option	GC field on Current tab
from Measurement tab 3-96	on Gas Chromatograph Configuration screen
on Ultrasonic tab of Status/Configuration option	from Measurement tab
from Measurement tab 3-102	GC IP Addr field
Frequency fields	on Gas Chromatograph Response Factor page
,	
	GC RF Arrays Section fields

IND-12 Index Issued February 2023

on Load Save Configuration page 2-45	for Generic MB sub-tab of I/O tab 2-51
GC Type field	High Byte First field
on Gas Chromatograph Configuration screen	for Customer Slave on the I/O tab 2-20
from Measurement tab3-141	for Generic MB sub-tab of I/O tab 2-50
on Gas Chromatograph Response Factor page	High Limit field
3-154	on PID Tuning page from Control tab 5-44
General field	on UFM Status tab of Ultrasonic Tests Measured
on Gas Chromatograph Configuration screen	Values page2-31
from Measurement tab3-143	High Range field
General Tab	on Control Valve screen from Measurement tab
for meter run 3-77	3-122
Generic Modbus base 0 Sick Modbus base 1	on Station n Control Valves page from Control
button	tab 5-17
for UFM on the I/O tab2-26	High Severity field
GFC IP Address field	on Coriolis Measured Values page 2-66
on Gas Chromatograph Configuration screen	High Speed Counters (HSC)2-8
from Measurement tab	High Word First field
Good Polls field	for Customer Slave on the I/O tab 2-20
for Transducers on the I/O tab 2-10	for Generic MB sub-tab of I/O tab 2-50
Gould Modbus field	HiHi/LoLo field
for Customer Slave on the I/O tab 2-19	on Process Monitor Control Configuration page
GP PIDs	from Control tab5-32
Graph Time Span field	on Process Value Monitor Configuration page
on PID Tuning page from Control tab 5-44	from Control tab5-38
on UFM Status tab of Ultrasonic Tests Measured	Historical Configuration Tab
Values page2-31	Historical Tab in Station Manager4-1
Gross Method Set to button	Host Modbus Slave Address field
on Station Configuration tab of	on Comm Configuration tab of
Status/Configuration option from	Status/Configuration option from
Measurement tab	Measurement tab3-21
GSN field	Hours field
on Comm Configuration tab of	for Time Set and Daylight Saving Time screen
Status/Configuration option from	from I/O tab2-55
Measurement tab	HSC# field
ivieasurement tab 3-22	
u	on Coriolis tab of Status/Configuration option from Measurement tab3-106
Н	
HART Transmitters 2-10	on Turbine tab of Status/Configuration option from Measurement tab
Heat Value Type Dry BTU Sat Wet BTU button	
on Station Configuration tab of	on Ultrasonic tab of Status/Configuration option
Status/Configuration option from	from Measurement tab 3-101
Measurement tab 3-28	HSCs field
HI field	on RTU configuration tab of Status/Configuration
on Process Monitor Control page from Control	option from Measurement tab 3-11
tab 5-30	•
on Process Value Monitor Summary page from	I
Control tab5-36	l field
HI HI field	on GP PIDs page from Control tab 5-41
on Process Monitor Control page from Control	on PID Tuning page from Control tab 5-44
tab 5-30	I/O Configuration2-1
on Process Value Monitor Summary page from	I/O Tab
Control tab 5-36	IC4 field
Hi/Lo field	on Gas Chromatograph Response Factor page
on Process Monitor Control Configuration page	3-156
from Control tab5-32	IC5 field
on Process Value Monitor Configuration page	on Gas Chromatograph Response Factor page
from Control tab5-38	
High Bit First field	In Use field
for Customer Slave on the I/O tab 2-20	on Al Calibration page
ioi ousionici olaye on the I/O tab Z=ZU	UII /\(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\

on Al Maintenance page 3-132, 3-172	on Annubar tab of Status/Configuration option
In Use field on Component tab	from Measurement tab3-110
on Gas Chromatograph Configuration screen	on V-Cone tab of Status/Configuration option
from Measurement tab 3-149	from Measurement tab 3-118
In Use field on Current tab	Isolation Control field
on Gas Chromatograph Configuration screen	on Remote Control Valves page from Control tab
from Measurement tab 3-148	5-7
Indicate Communications Failure when No	Item Count field
Response after field	for Generic MB sub-tab of I/O tab 2-53
on MVT Common Settings tab of	
Status/Configuration option from	K
Measurement tab	
Indicated Direction field	K Used field
on Bi-Directional Control tab of	on Coriolis tab of Status/Configuration option
Status/Configuration option from	from Measurement tab 3-107
Measurement tab	on PD tab of Status/Configuration option from
Indication Source field	Measurement tab 3-105
on Bi-Directional Control tab of	on Turbine tab of Status/Configuration option
Status/Configuration option from	from Measurement tab 3-97
Measurement tab 3-33	on Ultrasonic tab of Status/Configuration option
Individual DP and SP Q Bits Disable/Enable button	from Measurement tab 3-102
and Current State field	
on MVT Common Settings tab of	L
<u> </u>	Latel Fred Latel Physical Later
Status/Configuration option from	Latch Enabled / Disabled button
Measurement tab 3-14 Initial Rank field	on Process Monitor Control Configuration page
	from Control tab5-34
on Meter Run Staging - Station n page from	on Process Value Monitor Configuration page
Control tab	from Control tab 5-40
Input ID field	Latch field
on Bi-Directional Control tab of	on Process Monitor Control page from Control
Status/Configuration option from	tab 5-30
Measurement tab 3-34	on Process Value Monitor Summary page from
Inside Gain Max field	Control tab5-36
on UFM Configuration 2 tab of Ultrasonic Tests	Left Pick Off Voltage field
Measured Values page 2-35	on Coriolis Measured Values page 2-68
Inside Turbulence Max field	License field
on UFM Configuration 2 tab of Ultrasonic Tests	on RTU configuration tab of Status/Configuration
Measured Values page 2-36	option from Measurement tab 3-9
Installation	Limit Delay field
installing Station Manager software 1-3	on Bi-Directional Control tab of
INV field	Status/Configuration option from
for Discrete Input on the I/O tab 2-5	Measurement tab 3-42
Invert Output button	Limit Delay field
on Math Function 6-2	on Meter Run Staging - Station n page from
Invert Valve Control Outputs field	Control tab5-28
on Meter Run Staging - Station n page from	Limit field
Control tab 5-27	on Process Monitor Control Configuration page
IO Array Section field	from Control tab5-32, 5-33
on Load Save Configuration page 2-42	on Process Value Monitor Configuration page
IP Address field	from Control tab5-38, 5-39
for Generic MB sub-tab of I/O tab 2-50	Limit Switch / Blind button
on Ultrasonic Tests Measured Values page 2-26	on Remote Control Valves page from Control tab
IP Destination field	5-6
on Virtual Ports page2-57	Limit Switch / DI x field
IP field	on Bi-Directional Control tab of
for Customer Slave on the I/O tab 2-19	Status/Configuration option from
for Generic MB sub-tab of I/O tab 2-50	Measurement tab3-34, 3-36
Isentropic Exponent field	Limit Switch Sensing fields
• •	

IND-14 Index Issued February 2023

on Bi-Directional Control tab of	on Process Value Monitor Summary page from
Status/Configuration option from	Control tab5-36
Measurement tab 3-36	Live Value field
Limit Switch Sensing / DI fields	on Al Calibration page
on Bi-Directional Control tab of	on Al Maintenance page 3-173
Status/Configuration option from	LO field
Measurement tab 3-34	on Process Monitor Control page from Control
Limit Switch Status field	tab 5-30
on Bi-Directional Control tab of	on Process Value Monitor Summary page from
Status/Configuration option from	Control tab5-36
Measurement tab 3-36	LO LO field
Linearization Config Tab	on Process Monitor Control page from Control
for meter run	tab5-30
Linearization Config tab of Status/Configuration	on Process Value Monitor Summary page from
option from Measurement tab 3-88	Control tab5-36
Linearization Enabled / Disabled button	Load Configuration button
on Auto-Adjust tab of Status/Configuration	
· · · · · · · · · · · · · · · · · · ·	on Load Save Configuration page 2-45
option from Measurement tab 3-99	Load From RTU button
on Turbine tab of Status/Configuration option	on Math Function
from Measurement tab	Load Registers with the PCs Date/Time button
Linearization Enabled-Disabled button	for Time Set and Daylight Saving Time screen
on Al Configuration page 3-176	from I/O tab2-54
Linearization field	Load Registers with the RTUs Date/Time button
on Al Calibration page3-127	for Time Set and Daylight Saving Time screen
on Al Maintenance page 3-172	from I/O tab2-54
Linebreak Control field	Load/Save Configuration2-38
on Remote Control Valves page from Control tab	Loading Configuration data into the RTU 2-47
5 - 8	Local / Remote field
List 6-4	on on Local / Remote Settings page from
List 10 Recipe field	Control tab5-2
on Load Save Configuration page 2-42	Local / Remote Settings
List 29 field	on Control tab5-2
on Sampler screen 6-6	Local Control State field
List 29 button	on Bi-Directional Control tab of
from Measurement tab 3-164	Status/Configuration option from
List 29 field	Measurement tab3-41
on Math Function6-3	Local History Analog Log button4-6
List 29 Point field	Local History Digital Log page
on Process Monitor Control Configuration page	Local SP field
from Control tab 5-31	on PID Tuning page from Control tab 5-43
on Process Value Monitor Configuration page	Lock field
from Control tab5-37	on RTU configuration tab of Status/Configuration
	· · · · · · · · · · · · · · · · · · ·
List 29 Point Number variable field	option from Measurement tab 3-9
on Process Monitor Control Configuration page	Log # field
from Control tab 5-32	in Log page4-12
List Index or Register field	Log collection
on Math Function6-3	Low Bit First field
Live field	for Customer Slave on the I/O tab 2-20
for Discrete Input on the I/O tab 2-5	for Generic MB sub-tab of I/O tab 2-51
on Al Calibration page3-128	Low Byte First field
on Al Maintenance page 3-132, 3-172	for Customer Slave on the I/O tab 2-20
on Process Monitor Control Configuration page	for Generic MB sub-tab of I/O tab 2-51
from Control tab5-32	Low Flow Cutoff field
on Process Monitor Control page from Control	on Annubar tab of Status/Configuration option
tab 5-30	from Measurement tab 3-110
on Process Value Monitor Configuration page	on Auto-Adjust tab of Status/Configuration
from Control tab 5-38	option from Measurement tab 3-98
	1

on Coriolis tab of Status/Configuration option	on Al Maintenance page 3-171
from Measurement tab 3-106	Maint Off Maintenance button
on Orifice tab of Status/Configuration option	on Al Maintenance page 3-131
from Measurement tab 3-90	Maintenance Mode Time field
on PD tab of Status/Configuration option from	on Site Maintenance page3-134
Measurement tab3-104	Maintenance Bypass Enabled / Disabled button
on Turbine tab of Status/Configuration option	on Station n Local Settings page from Control
from Measurement tab 3-95	tab 5-15
on Ultrasonic tab of Status/Configuration option	Maintenance Mode Off On button
from Measurement tab 3-102	on Run Maintenance page 3-137
on Ultrasonic Tests Measured Values page 2-27	Maintenance Mode Time field
on V-Cone tab of Status/Configuration option	on Al Maintenance page 3-132, 3-172
from Measurement tab 3-117	on Run Maintenance page 3-138
on Venturi tab of Status/Configuration option	on Station Maintenance page 3-135
from Measurement tab3-113	Major field
Low Flow Run Shut-in field	on RTU configuration tab of Status/Configuration
on Meter Run Staging - Station n page from	option from Measurement tab 3-9
Control tab5-28	Manual / Auto button
Low Limit field	on Meter Run Staging - Station n page from
on PID Tuning page from Control tab 5-44	Control tab5-24
on UFM Status tab of Ultrasonic Tests Measured	Manual field
Values page 2-31	for Customer Slave signal list grid on the I/O tab
Low Range field	2-23
on Control Valve screen from Measurement tab	Manual Mode button
3-122	on Station n Control Valves page from Control
on Station n Control Valves page from Control	tab 5-17
tab 5-17	Manual Mode field
Low Word First field	on Control Valve screen from Measurement tab
for Customer Slave on the I/O tab 2-20	3-122
for Generic MB sub-tab of I/O tab 2-50	Manual Set Point field
Lower field	on GP PIDs page from Control tab 5-42
on Control Valve screen from Measurement tab	Manual SP field
	on Station n Overview page from Control tab 5-
on HART Configuration page 2-13	11
on Wireless HART Configuration page2-14	Mass Flow Live Zero field
LSN field	on Coriolis Measured Values page 2-68
on Comm Configuration tab of	Mass Flow Rate field
Status/Configuration option from	on Coriolis Measured Values page 2-68
Measurement tab 3-22	on Coriolis tab of Status/Configuration option
Wododiomont tab 0 ZZ	from Measurement tab 3-107
М	Mass From Frequency field
	on Coriolis Measured Values page 2-68
Main Rotor Count Input field	Mass Inventory field
on Auto-Adjust tab of Status/Configuration	on Coriolis Measured Values page 2-68
option from Measurement tab 3-99	Mass Rate Time Units field
Main Rotor Factor (Km) field	on Station Configuration tab of
on Auto-Adjust tab of Status/Configuration	Status/Configuration option from
option from Measurement tab 3-98	Measurement tab
Main Rotor Override/Live fields	Mass Rate Units field
on Auto-Adjust tab of Status/Configuration	on Station Configuration tab of
option from Measurement tab 3-99	Status/Configuration option from
Main Rotor Value (Hz) field	Measurement tab
on Auto-Adjust tab of Status/Configuration	Mass Total field
option from Measurement tab 3-100	
Maint Mode Off On button	on Coriolis Measured Values page 2-68
on Station Maintenance page 3-135	Math Function Arrays Section fields
Maint Mode Off/Maint Mode On button	on Load Save Configuration page 2-43
on Site Maintenance page 3-133	Math Function button
Maint Off – Maintenance hutton	on Utilities Tab6-2

IND-16 Index Issued February 2023

Max5-3 Max field	3, 5-39 Measurement Detail Tab - Summary Pages from Measurement tab3-157
on Process Monitor Control Configuration	
from Control tab 5-32	
on Process Monitor Control page from Col	
tab5-30	
on Process Value Monitor Configuration p	
from Control tab 5-38	
on Process Value Monitor Summary page	
Control tab	,
Max Flow Rate field	option from Measurement tab 3-98
on Meter Run Staging - Station n page fro	
Control tab 5-23	J 1 5
Max Meter Flow field	on Wireless HART Configuration page2-14
on Auto-Adjust tab of Status/Configuration	
option from Measurement tab 3-99	
Max Number of Alarms field	Status/Configuration option from
on RTU configuration tab of Status/Config	
option from Measurement tab 3-12	
Max Number of Events field	on Coriolis tab of Status/Configuration option
on RTU configuration tab of Status/Config	
option from Measurement tab 3-12	
Max Pulse field	on UFM Status tab of Ultrasonic Tests Measured
on Control Valve screen from Measureme	, y
3-123	
on Station n Control Valves page from Con	
tab 5-17	
Max PV field	Meter Performance %field
on GP PIDs page from Control tab 5-42	
Max Rank field	Values page2-28
on Meter Run Staging - Station n page fro	
Control tab5-22	
Max Signals to Collect field	on Meter Run Staging - Station n page from
for Customer Slave signal list grid on the I	
2-22	
Maximum Average Velocity Delta field	from Measurement tab
on UFM Configuration 1 tab of Ultrasonic	
Measured Values page 2-34	
Maximum field on Component tab	Values page2-27
on Gas Chromatograph Configuration scre	
from Measurement tab 3-149	
Maximum Input field	3-155
on Coriolis tab of Status/Configuration opt	
from Measurement tab 3-106	
on PD tab of Status/Configuration option f	
Measurement tab 3-104	
on Turbine tab of Status/Configuration opt	ion Mid Point 1 Tester field
from Measurement tab 3-95	on Al Maintenance page3-174
on Ultrasonic tab of Status/Configuration of	option Mid Point 2 Actual field
from Measurement tab 3-101	on Al Maintenance page3-174
Maximum Monitor Count field	Mid Point 2 Deviation field
on MVT Common Settings tab of	on Al Maintenance page 3-174
Status/Configuration option from	Mid Point 2 Tester field
Measurement tab 3-14	on Al Maintenance page3-174
Maximum Zero Flow Velocity field	Mid Point 3 Actual field
on UFM Configuration 1 tab of Ultrasonic	Tests on Al Maintenance page 3-174
Measured Values page 2-34	
Measurement Canada	

Mid Point 3 Tester field	Modbus Slave Address
on Al Maintenance page 3-174	for Customer Slave on the I/O tab 2-19
Min / Max Rates field	Modbus Slave Address field
on Turbine tab of Status/Configuration option	for Generic MB sub-tab of I/O tab 2-52
from Measurement tab 3-97	Modbus Status field
Min field	for Customer Slave on the I/O tab 2-21
on Process Monitor Control Configuration page	Mode field
from Control tab 5-32	for Generic MB sub-tab of I/O tab 2-53
on Process Monitor Control page from Control	Monitor Count for Comm % Min field
tab5-30, 5-33, 5-39	on UFM Configuration 1 tab of Ultrasonic Tests
on Process Value Monitor Configuration page	Measured Values page 2-34
from Control tab 5-38	Monitor Port field
on Process Value Monitor Summary page from	for Local DLM on the I/O tab2-16
Control tab 5-36	Month field
Min Flow Rate field	for Time Set and Daylight Saving Time screen
on Meter Run Staging - Station n page from	from I/O tab2-54, 2-55
Control tab5-23	Multi-variable Transmitters
Min Pulse field	MVT Common Settings Tab from
on Control Valve screen from Measurement tab	Status/Configuration button
3-123	on Measurement Tab 3-13
on Station n Control Valves page from Control	MVT FT field
tab 5-17	on MVT Common Settings tab of
Min/Max Rates fields	Status/Configuration option from
on Orifice tab of Status/Configuration option	Measurement tab 3-14
from Measurement tab	MVT# field
Min/Max Reset button	on Annubar tab of Status/Configuration option
on Process Monitor Control Configuration page	from Measurement tab
from Control tab5-33	on Orifice tab of Status/Configuration option
on Process Value Monitor Configuration page	from Measurement tab3-91
from Control tab5-39	on V-Cone tab of Status/Configuration option
Min/Max Reset Enabled / Disabled button	from Measurement tab
on Process Monitor Control Configuration page	
from Control tab5-32	on Venturi tab of Status/Configuration option from Measurement tab3-114
on Process Value Monitor Configuration page	MVT# field for Static Pressure and Flowing
from Control tab5-38	Temperature
	on Run Config tab of Status/Configuration option
Minimum field on Component tab	from Measurement tab
on Gas Chromatograph Configuration screen	nom weasurement tab 3-60
from Measurement tab 3-149 Minor field	M
on RTU configuration tab of Status/Configuration	N
	N/A field
option from Measurement tab 3-9 Minutes field	on Sampler screen 6-6
	NC10 field
for Time Set and Daylight Saving Time screen	on Gas Chromatograph Response Factor page
from I/O tab	3-156
Modbus Coil field	NC4 field
on Math Function	on Gas Chromatograph Response Factor page
Modbus field	3-156
for Customer Slave on the I/O tab 2-19	NC5 field
for Generic MB sub-tab of I/O tab 2-50	on Gas Chromatograph Response Factor page
Modbus Master 2-49	3-156
Modbus Register field	NC6 field
on Math Function6-3, 6-4	on Gas Chromatograph Response Factor page
Modbus Register Maps M-1	
Modbus Set To button	NC7 field
on Comm Configuration tab of	on Gas Chromatograph Response Factor page
Status/Configuration option from	
Measurement tab 3-21	NC8 field
Modbus Slave 2-17	. CO Hold

IND-18 Index Issued February 2023

on Gas Chromatograph Response Factor page	on Orifice tab of Status/Configuration option
	from Measurement tab 3-90
NC9 field	Orifice Reference Temp field
on Gas Chromatograph Response Factor page	on Orifice tab of Status/Configuration option
3-156	from Measurement tab 3-91
NeoC5 field	Orifice Tab
on Gas Chromatograph Response Factor page	for meter run
3-156	Orifice Type field
New Orifice Diameter field	on Orifice tab of Status/Configuration option
on Orifice tab of Status/Configuration option	from Measurement tab
from Measurement tab 3-94	Output Mode field
New Probe Width field	on GP PIDs page from Control tab 5-41
on Annubar tab of Status/Configuration option	on Sampler screen
from Measurement tab 3-112	Outside Gain Max field
New V-Cone Diameter field	on UFM Configuration 2 tab of Ultrasonic Tests
on V-Cone tab of Status/Configuration option	Measured Values page2-35
from Measurement tab 3-120	Outside Turbulence Max field
New Venturi Diameter field	on UFM Configuration 2 tab of Ultrasonic Tests
on Venturi tab of Status/Configuration option	Measured Values page2-35
from Measurement tab 3-116	Override/Live button
Next button	on Annubar tab of Status/Configuration option
on Al Maintenance page 3-173	from Measurement tab 3-111
Noflow Shutin Enabled / Disabled button	on Orifice tab of Status/Configuration option
on Meter Run Staging - Station n page from	from Measurement tab
Control tab 5-23	on V-Cone tab of Status/Configuration option
Noflow shutin fields	from Measurement tab 3-119
on Station Configuration tab of	on Venturi tab of Status/Configuration option
Status/Configuration option from	from Measurement tab 3-114
Measurement tab 3-24	Override/Live field for Static Pressure and Flowing
None field	Temperature
on Math Function6-3	on Run Config tab of Status/Configuration option
Number field	from Measurement tab 3-81
for Customer Slave signal list grid on the I/O tab	_
2-22	Р
on HART Configuration page 2-11	P field
on Wireless HART Configuration page2-14	on GP PIDs page from Control tab 5-41
Number of Records After Trigger field	on PID Tuning page from Control tab 5-44
in Local History Analog Log page 4-7	Pages
in Local History Digital Log page 4-16	accessing by clicking on tabs1-9
_	Password field
0	on Al Maintenance page 3-175
OK button	on Math Function6-4
for Floating Point Format dialog box . 2-24	Path n field
Open / Close LS fields	on UFM Status tab of Ultrasonic Tests Measured
on Bi-Directional Control tab of	Values page2-29
Status/Configuration option from	PC File Location field
Measurement tab 3-42	on Al Maintenance page 3-175
Open / Close LS fields	PD Tab
on Meter Run Staging - Station n page from	for meter run 3-104
Control tab5-26	PDO Mode field
Open button	on Control Valve screen from Measurement tab
on Al Maintenance page 3-175	3-122
Open LS field	on Station n Control Valves page from Control
on Bi-Directional Control tab of	tab5-17
Status/Configuration option from	Percent Below/Above the Zero/Span for Q bit
Measurement tab 3-36	Alarm field
Orifice Diameter field	

on MVT Common Settings tab of	for Discrete Output on the I/O tab 2-6
Status/Configuration option from	for High Speed Counters on the I/O tab2-8
Measurement tab 3-14	PNT Ultrasonic Number field
Perform field	for Ultrasonic Tests Measured Values page 2-25
on UFM Status tab of Ultrasonic Tests Measured	Point Number field
Values page 2-29	on Al Calibration page3-128
Performance Min field	on Al Maintenance page 3-132, 3-172
on UFM Configuration 2 tab of Ultrasonic Tests	Poll Period field
Measured Values page 2-35	on Virtual Ports page2-57
Permissive field	Port field
on Control Valve screen from Measurement tab	for Customer Slave on the I/O tab 2-19
3-121, 3-123	for Generic MB sub-tab of I/O tab 2-50
on Station n Control Valves page from Control	for Transducers on the I/O tab2-9
tab 5-17	on Coriolis Measured Values page 2-65
PID Control Tab - Summary Pages	on Gas Chromatograph Configuration screen
from Measurement tab 3-159	from Measurement tab 3-141
PID Loop field	on Gas Chromatograph Response Factor page
on PID Tuning page from Control tab 5-44	3-155
PID Out field	on Ultrasonic Tests Measured Values page 2-26
on PID Tuning page from Control tab5-43, 5-45	on Virtual Ports page 2-57
PID Tuning 5-43	Precision field
Pipe Diameter field	for Floating Point Format dialog box . 2-24
•	
on Annubar tab of Status/Configuration option	Pressure Corrected Density field
from Measurement tab	on Coriolis Measured Values page 2-69
on Orifice tab of Status/Configuration option	Pressure Corrected Flow Rate field
from Measurement tab	on Coriolis Measured Values page 2-69
on Run Config tab of Status/Configuration option	Pressure Correction Factor field
from Measurement tab	on Coriolis tab of Status/Configuration option
on V-Cone tab of Status/Configuration option	from Measurement tab 3-107
from Measurement tab 3-117	Pressure field
on Venturi tab of Status/Configuration option	on Coriolis Measured Values page 2-68
from Measurement tab 3-113	Pressure Input Span field
Pipe Reference Temp field	on Coriolis Measured Values page 2-69
on Orifice tab of Status/Configuration option	Pressure Input Zero field
from Measurement tab 3-91	on Coriolis Measured Values page 2-68
Pipe Type field	Pressure Tap Location field
for material on V-Cone tab of	on Orifice tab of Status/Configuration option
Status/Configuration option from	from Measurement tab3-91
Measurement tab 3-118	Primary n PV field
on Orifice tab of Status/Configuration option	on PID Tuning page from Control tab 5-45
from Measurement tab 3-91	Primary n SP field
Plate Change fields	on PID Tuning page from Control tab 5-45
on Annubar tab of Status/Configuration option	Probe Width field
from Measurement tab 3-112	on Annubar tab of Status/Configuration option
on Orifice tab of Status/Configuration option	from Measurement tab 3-109
from Measurement tab 3-93	Process Monitor Control 5-29
on V-Cone tab of Status/Configuration option	Process Monitor Control Configuration 5-31
from Measurement tab 3-120	Process Monitor Control Number field
PLC Identification field	on Process Monitor Control Configuration page
on RTU configuration tab of Status/Configuration	from Control tab 5-31
option from Measurement tab 3-10	on Process Value Monitor Configuration page
PLC Time field	from Control tab 5-37
on RTU configuration tab of Status/Configuration	Process Value Monitor5-35, 5-37
option from Measurement tab 3-10	Process Values
PNT field	Viewing in Maintenance Mode from
for Analog Input on the I/O tab 2-6	Measurement Tab3-124
for Analog Output on the I/O tab 2-7	Process Variable field
for Discrete Input on the I/O tab 2-7	1 100000 Valiable field

IND-20 Index Issued February 2023

	on Meter Run Staging - Station n page from
Control tab 5-25	Control tab 5-22
Profile Factor field	Push to Reset button
on UFM Status tab of Ultrasonic Tests Measured	on Process Monitor Control Configuration page
Values page 2-30	from Control tab5-34
Profile Factor Max field	on Process Value Monitor Configuration page
on UFM Configuration 3 tab of Ultrasonic Tests	from Control tab5-40
Measured Values page 2-37	on Sampler screen6-7
Profile Factor Min field	on UFM Configuration 1 tab of Ultrasonic Tests
on UFM Configuration 3 tab of Ultrasonic Tests	Measured Values page2-34
Measured Values page 2-37	Push to Test button
Program Name field	on Sampler screen 6-8
on RTU configuration tab of Status/Configuration	PV5-41
option from Measurement tab 3-8	PV field
Programmed Control Enable / Disable button	for Analog Input on the I/O tab2-6
on Bi-Directional Control tab of	for Analog Output on the I/O tab 2-7
Status/Configuration option from	for Discrete Input on the I/O tab 2-6
Measurement tab 3-41	for Discrete Output on the I/O tab 2-6
Progress field	on PID Tuning page from Control tab 5-43
on Al Maintenance page 3-173	PV Span field
Prompt field	on PID Tuning page from Control tab 5-44
on Al Maintenance page 3-173	PV Type field
Protocol field	on Al Maintenance page3-172
on Virtual Ports page2-57	PV Value field
PSI field on Current tab	on GP PIDs page from Control tab 5-41
on Gas Chromatograph Configuration screen	PV/GQ Averages tab of Status/Configuration option
from Measurement tab 3-147	from Measurement tab
Pulse Counter Input / Override Live field	PVs field
on Ultrasonic tab of Status/Configuration option	on Run Config tab of Status/Configuration option
from Measurement tab3-102	from Measurement tab
Pulse Counter Input Override / Input button	
on Turbine tab of Status/Configuration option	Q
from Measurement tab3-96	·
Pulse Counter Input Override/Live field	Q-Bit Value for AI Point During Calibration and
on Coriolis tab of Status/Configuration option	Verification
from Measurement tab	check box on Al Calibration page 3-128
on PD tab of Status/Configuration option from	
Measurement tab3-105	R
Pulse Duration field	Raise field
on Bi-Directional Control tab of	on Control Valve screen from Measurement tab
Status/Configuration option from	
Measurement tab 3-42	RAM Date field
Pulse Duration field	on RTU configuration tab of Status/Configuration
on Remote Control Valves page from Control tab	option from Measurement tab 3-9
5-6	RAM Name field
Pulse Duration field	on RTU configuration tab of Status/Configuration
on Meter Run Staging - Station n page from	option from Measurement tab 3-9
Control tab5-27	Ramp field
Pulse Status field	on GP PIDs page from Control tab 5-42
on Ultrasonic tab of Status/Configuration option	Ramp Rate field
from Measurement tab 3-103	on Control Valve screen from Measurement tab
Push Down / Wrap Around field	3-122
on Comm Configuration tab of	on PID Tuning page from Control tab 5-44
Status/Configuration option from	on Station n Control Valves page from Control
Measurement tab	tab5-17
Push to Initialize button	on Station n Overview page from Control tab 5-
for Customer Slave on the I/O tab 2-21	11
	Range Limit field

on UFM Status tab of Ultrasonic Tests Measured	Reset button
Values page 2-32	on Meter Run Staging - Station n page from
Rate of Change (ROC) Enabled / Disabled button	Control tab5-24
on Process Monitor Control Configuration page	Reset field
from Control tab5-33	on Remote Control Valves page from Control tab
on Process Value Monitor Configuration page	5-6
from Control tab 5-39	Return to Verification Page button
	_
Rate of Change field	on Al Configuration page3-177
on Process Monitor Control page from Control	Revision field
tab5-33, 5-39	on RTU configuration tab of Status/Configuration
Raw Tube Frequency field	option from Measurement tab 3-9
on Coriolis Measured Values page 2-69	Right Pick Off Voltage field
Raw Value checkbox	on Coriolis Measured Values page 2-69
on Al Calibration page 3-128	ROC Dead Band field
Raw Value field	on Process Monitor Control Configuration page
	from Control tab5-33
on Al Maintenance page 3-173	
Real Result field	on Process Value Monitor Configuration page
on Math Function 6-3	from Control tab 5-39
Receive Counts field	ROC Down field
on Virtual Ports page2-57	on Process Monitor Control Configuration page
Recipe 6-8	from Control tab 5-34
Refresh and Check button	on Process Monitor Control page from Control
on Math Function6-2	tab 5-30
Register Count field	on Process Value Monitor Configuration page
for Generic MB sub-tab of I/O tab 2-53	from Control tab 5-40
Register List 13 field	on Process Value Monitor Summary page from
for Customer Slave on the I/O tab 2-21	Control tab5-36
Register Set field	ROC Up field
for Transducers on the I/O tab 2-9	on Process Monitor Control Configuration page
Remaining Time field	from Control tab5-34
on Al Maintenance page 3-132, 3-172	on Process Monitor Control page from Control
on Run Maintenance page 3-138	tab5-30
on Site Maintenance page 3-134	on Process Value Monitor Configuration page
on Station Maintenance page 3-136	from Control tab5-40
Remote Control is field	on Process Value Monitor Summary page from
on Remote Control Valves page from Control tab	Control tab 5-36
5-7	Root Name field
Remote Control Valve Noflow Shutin Enabled /	on Load Save Configuration page 2-40
Disabled button	RTDs field
on Station n Local Settings page from Control	on RTU configuration tab of Status/Configuration
tab 5-15	option from Measurement tab 3-11
Remote Control Valves	RTS Delay Mode field
on Control tab 5-5	for Customer Slave on the I/O tab 2-21
Remote SP field	for Generic MB sub-tab of I/O tab 2-52
on PID Tuning page from Control tab 5-43	RTU Configuration Data Tab from
Requested Direction Forward / Reverse button	Status/Configuration button
on Bi-Directional Control tab of	on Measurement Tab 3-7
Status/Configuration option from	Run ID field
Measurement tab 3-41	on Run Config tab of Status/Configuration option
	from Measurement tab3-77
Requested Rank field	
on Meter Run Staging - Station n page from	Run Maintenance
Control tab 5-22	Quick View from Measurement Tab 3-137
Reset button	Run Stage Noflow Shutin Enabled / Disabled
on Bi-Directional Control tab of	button
Status/Configuration option from	on Station n Local Settings page from Control
Measurement tab	tab5-15
Reset button	Run Staging Rank field
for Transducers on the I/O tab	Nan Staying Nank lield

IND-22 Index Issued February 2023

on Run Config tab of Status/Configuration option	on Auto-Adjust tab of Status/Configuration
from Measurement tab 3-79	option from Measurement tab 3-98
RX Data field	Sense Rotor Override/Live fields
for Local DLM on the I/O tab2-16	on Auto-Adjust tab of Status/Configuration
	option from Measurement tab 3-99
S	Sense Rotor Value (Hz) field
O N E - L-I	on Auto-Adjust tab of Status/Configuration
S N field	option from Measurement tab 3-100
on UFM Status tab of Ultrasonic Tests Measured	Serial button
Values page	for Customer Slave on the I/O tab 2-18
Sample Bottle Full Limit field	for Generic MB sub-tab of I/O tab 2-49
on Sampler screen 6-7	Serial Number field
Sample Rate in Seconds field	for Transducers on the I/O tab 2-10
in Local History Analog Log page 4-7	Set
in Local History Digital Log page 4-16	Set Baseline
Sampler button	button on Gas Chromatograph Response Factor
on Utilities Tab6-4	page3-155
Sampler Number field	Set Point field
on Sampler screen6-5	on GP PIDs page from Control tab 5-42
Save button	Set Point field for Stacked or Redundant
on Al Maintenance page 3-175	Transmitters
Save Configuration button	on Annubar tab of Status/Configuration option
on Load Save Configuration page 2-45	from Measurement tab
Saving RTU Configuration data2-45	on Orifice tab of Status/Configuration option
Scale Factor field	from Measurement tab3-93
on Sampler screen 6-7	
Scheduled Data field on Current tab	on V-Cone tab of Status/Configuration option from Measurement tab 3-119
on Gas Chromatograph Configuration screen	
from Measurement tab 3-147	on Venturi tab of Status/Configuration option
Scheduled field	from Measurement tab
on Gas Chromatograph Configuration screen	Set RTU Date/Time with Register Values button
from Measurement tab 3-144	for Time Set and Daylight Saving Time screen
Scheduled field on Component tab	from I/O tab2-55
on Gas Chromatograph Configuration screen	Set to IP - Set to Serial button
from Measurement tab 3-149	on Gas Chromatograph Response Factor page
Scheduled field on Current tab	3-155
on Gas Chromatograph Configuration screen	Settle Time field
from Measurement tab	on Meter Run Staging - Station n page from
Scroll Time field	Control tab5-22
on Comm Configuration tab of	Show List 29 button
Status/Configuration option from	on Process Monitor Control Configuration page
Measurement tab	from Control tab5-32
Search Criteria button	on Process Value Monitor Configuration page
on Audit Log page 4-4	from Control tab5-38
Search Data Collection Criteria dialog box 4-5	Signal List grid2-22
Seconds field	Signal Name field
	for Customer Slave signal list grid on the I/O tab
for Time Set and Daylight Saving Time screen from I/O tab	2-23
	Signals Collected field
Select Calc Source button	for Customer Slave signal list grid on the I/O tab
on Station Configuration tab of	2-23
Status/Configuration option from	Site Maintenance
Measurement tab	from Measurement Tab 3-133
Send List field	Site Name field
for Generic MB sub-tab of I/O tab 2-53	in Log page4-11
Sense Rotor Count Input field	on Load Save Configuration page 2-40
on Auto-Adjust tab of Status/Configuration	Sitewide / Configurable field
option from Measurement tab 3-99	on Local / Remote Settings page from Control
Sense Rotor Factor (Ks) field	tab 5-2

Skip button	on Run Maintenance page 3-138
on Al Calibration page 3-129	Space button
on Al Maintenance page 3-173	on Math Function6-2
Sleep Time field	Span field
on Comm Configuration tab of	for Analog Input on the I/O tab 2-6
Status/Configuration option from	for Analog Output on the I/O tab 2-7
Measurement tab 3-21	for Transducers on the I/O tab 2-10
Slot n field	on Al Calibration page3-128
on RTU configuration tab of Status/Configuration	on Al Maintenance page 3-132, 3-172
option from Measurement tab 3-11	Specific Gravity field on Component tab
Slot Number field	on Gas Chromatograph Configuration screen
on Al Calibration page 3-128	from Measurement tab
on Al Maintenance page 3-132, 3-172	Speed of Sound field
Sn Diff field	on Alarm Config tab of Status/Configuration
on UFM Status tab of Ultrasonic Tests Measured	option from Measurement tab 3-87
	Stable Flow %field
Values page 2-29 SN Min field	
	on UFM Status tab of Ultrasonic Tests Measured
on UFM Configuration 2 tab of Ultrasonic Tests	Values page2-28
Measured Values page 2-35	Stacked or Redundant Transmitters fields
SOS Alarm Cutoff field	on Run Config tab of Status/Configuration option
on Ultrasonic tab of Status/Configuration option	from Measurement tab
from Measurement tab	Stale Time field on Component tab
SoS field	on Gas Chromatograph Configuration screen
on UFM Status tab of Ultrasonic Tests Measured	from Measurement tab 3-149
Values page 2-29	Start button
SoS Max field	on Al Maintenance page 3-175
on UFM Configuration 1 tab of Ultrasonic Tests	Start Calibration or Next button
Measured Values page 2-34	on Al Calibration page3-129
SoS Min field	Start Collection field
on UFM Configuration 1 tab of Ultrasonic Tests	in Log page4-12
Measured Values page 2-34	Start Index field
Source field	for Customer Slave signal list grid on the I/O tab
for differential pressure on Annubar tab of	2-23
Status/Configuration option from	Start Register field
Measurement tab 3-110	for Generic MB sub-tab of I/O tab 2-53
for differential pressure on Orifice tab of	Starting Station Manager software 1-7
Status/Configuration option from	Startup Delay field
Measurement tab 3-91	on Ultrasonic Tests Measured Values page 2-27
for differential pressure on V-Cone tab of	State field
Status/Configuration option from	on Remote Control Valves page from Control tab
Measurement tab 3-118	5-7
for differential pressure on Venturi tab of	Static Pressure fields
Status/Configuration option from	on Alarm Config tab of Status/Configuration
Measurement tab	option from Measurement tab 3-87
on Control Valve screen from Measurement tab	Station Accumulations
3-121	on Station Data tab of Status/Configuration
on Station n Control Valves page from Control	option from Measurement tab 3-30
tab 5-16	Station Assignment field
Source field for Static Pressure and Flowing	on Run Config tab of Status/Configuration option
Temperature	from Measurement tab3-79
on Run Config tab of Status/Configuration option	Station Configuration Tab from
from Measurement tab	Status/Configuration button
Source in Use field	on Measurement Tab 3-23
	Station control
on Gas Chromatograph Configuration screen	
from Measurement tab 3-145	enabling
SP field for Transducers on the I/O tab 2.10	Station Data Tab from Status/Configuration button
for Transducers on the I/O tab 2-10	on Measurement Tab
on PID Tuning page from Control tab 5-43	Station Direction fields

IND-24 Index Issued February 2023

on Station Configuration tab of	Status E field
Status/Configuration option from	on Coriolis Measured Values page 2-67
Measurement tab 3-23	Status F field
Station Direction Indication fields	on Coriolis Measured Values page 2-67
on Bi-Directional Control tab of	Status field
Status/Configuration option from	on Bi-Directional Control tab of
Measurement tab 3-33	Status/Configuration option from
Station field	Measurement tab 3-40
on PID Tuning page from Control tab 5-44	Status field
Station Inlet Pressure field	for Generic MB sub-tab of I/O tab 2-53
on Station n Local Settings page from Control	for Hold Last Input Value on Q-Bit on RTU
tab 5-15	configuration tab of Status/Configuration
Station Maintenance	option from Measurement tab 3-11
from Measurement Tab 3-135	on RTU configuration tab of Status/Configuration
Station Mass Accumulations	option from Measurement tab 3-10
on Station Data tab of Status/Configuration	on Virtual Ports page2-57
option from Measurement tab 3-30	Status field
Station n	on Gas Chromatograph Configuration screen
Configuration tab 5-12	from Measurement tab 3-141
Control Valves 5-15	Status field
Local Settings 5-14	on Meter Run Staging - Station n page from
Meter Protection Config tab 5-13	Control tab5-24
on Control tab5-9	Status field
Overview tab5-10	on Process Monitor Control page from Control
Station n field	tab 5-30
on Station Summaries tab of	Status field
Status/Configuration option from	on Process Monitor Control Configuration page
Measurement tab	from Control tab5-32
Station Name field	Status field
on Station Configuration tab of	on Process Monitor Control Configuration page
Status/Configuration option from	from Control tab5-33
Measurement tab	Status field
Station Output Pressure field	on Process Monitor Control Configuration page
on Control tab5-15	from Control tab5-34
Station Summaries Tab	Status field
Status 1 field	on Process Value Monitor Summary page from
on Auto-Adjust tab of Status/Configuration	Control tab5-36
option from Measurement tab 3-100	Status field
on Coriolis Measured Values page 2-66	on Process Value Monitor Configuration page
Status 2 3 4 field	from Control tab5-39
on Auto-Adjust tab of Status/Configuration	Status field
option from Measurement tab 3-100	on Process Value Monitor Configuration page
Status 2 field	from Control tab5-40
on Coriolis Measured Values page 2-66	Status Information
Status 3 field	checking1-15
on Coriolis Measured Values page 2-66	Step 1 through Step 7 fields
Status A field	on Al Calibration page
on Coriolis Measured Values page 2-66	Step column
Status B field	on Al Calibration page3-129
on Coriolis Measured Values page 2-66	Stop button
Status C field	·
	on Al Maintenance page3-175
on Coriolis Measured Values page 2-66	Stop Collection field
Status Code Details window	in Log page
on Coriolis Measured Values page 2-68	Storage Folder field
Status Configuration button	in Log page4-11 Store Data on Collection field
on Measurement Tab	
Status D field	in Data Storage Parameters dialog box4-4
on Coriolis Measured Values page 2-67	Stream field

on Gas Chromatograph Configuration screen	Temperature fields
from Measurement tab 3-142	on Alarm Config tab of Status/Configuration
Suggested Tester Values button	option from Measurement tab 3-87
on Al Configuration page 3-177	Test Point field
Suggested Tester Values field	on Al Maintenance page 3-173
on Al Calibration page 3-128	Tester column
Summary Pages	on Al Calibration page3-129
from Measurement tab 3-157	Tester Value field
Sunday field	on Al Calibration page3-129
for Time Set and Daylight Saving Time screen	on Al Maintenance page 3-173
from I/O tab 2-55	Thermal Expansion Factor field
Swap Inlet/Outlet on Direction Enabled / Disabled	on Annubar tab of Status/Configuration option
button	from Measurement tab3-110
on Station n Local Settings page from Control	Thermal Units field on Current tab
tab 5-15	on Gas Chromatograph Configuration screen
Swirl Angle field	from Measurement tab 3-147
on UFM Status tab of Ultrasonic Tests Measured	Time Delay Between Valve Actions field
Values page 2-29	on Bi-Directional Control tab of
Symm Factor field	Status/Configuration option from
on UFM Status tab of Ultrasonic Tests Measured	Measurement tab3-41
Values page 2-30	Time Delay to Alarm Max Min Flow Rate
Symmetry Factor Max field	on Alarm Config tab of Status/Configuration
on UFM Configuration 3 tab of Ultrasonic Tests	option from Measurement tab 3-87
Measured Values page 2-37	Time field
Symmetry Factor Min field	on Gas Chromatograph Configuration screen
on UFM Configuration 3 tab of Ultrasonic Tests	from Measurement tab
Measured Values page 2-37	Time field on Current tab
Weddared Values page 2-07	on Gas Chromatograph Configuration screen
т	from Measurement tab
ı	Time Out field
Tables	for Generic MB sub-tab of I/O tab2-52, 2-53
1-1. Status Grid icons 1-16	on Ultrasonic Tests Measured Values page 2-26
2-1. HART Communication Status Codes2-12	Time Set / Daylight Saving Time screen
2-2. HART Device Status Codes 2-12	from I/O tab2-54
3-1. Icons Used in Configuration Tree 3-4	Time Stamp field
C-1. Legally Relevant Parameters that are not	for High Speed Counters on the I/O tab2-8
Verification Triggering EventsC-2	for Transducers on the I/O tab 2-10
C-2. Modification Causes a Verification	on Comm Configuration tab of
Triggering Events	Status/Configuration option from
M-1. Modbus Register Map M-1	Measurement tab 3-22
M-2. Modbus Register Map M-39	Timer Value Inactive / Active button
M-3. Modbus Register Map M-203	
Tabs	on Math Function
accessing different pages through 1-9	Today's Energy Fwd field on Station Summaries tab of
Tag field	
on HART Configuration page 2-11	Status/Configuration option from
on Wireless HART Configuration page2-14	Measurement tab
Tag Name field	Today's Energy Rev field
for Transducers on the I/O tab 2-10	on Station Summaries tab of
Target File field	Status/Configuration option from
in Log page4-12	Measurement tab
Target Rank field	Today's Volume Fwd field
on Meter Run Staging - Station n page from	on Station Summaries tab of
Control tab5-25	Status/Configuration option from
TCs field	Measurement tab 3-16
on RTU configuration tab of Status/Configuration	Today's Volume Rev field
option from Measurement tab 3-12	on Station Summaries tab of
Temperature field	Status/Configuration option from
on Coriolis Measured Values nage 2-68	Measurement tab 3-16

IND-26 Index Issued February 2023

Transmit Counts field	on Load Save Configuration page 2-44
on Virtual Ports page2-57	UFM field
Travel Time field	on Comm Configuration tab of
on Bi-Directional Control tab of	Status/Configuration option from
Status/Configuration option from	Measurement tab 3-21
Measurement tab 3-42	Ultrasonic Data2-24
Trigger High DB Limit field	Ultrasonic Tab
in Local History Analog Log page 4-7	for meter run 3-101
in Local History Digital Log page 4-16	Uncorrected Flow Rate field
Trigger High Limit field	on Auto-Adjust tab of Status/Configuration
in Local History Analog Log page 4-7	option from Measurement tab 3-100
in Local History Digital Log page 4-16	on PD tab of Status/Configuration option from
Trigger Item Index field	Measurement tab3-105
in Local History Analog Log page 4-8	on Turbine tab of Status/Configuration option
in Local History Digital Log page 4-16	from Measurement tab 3-97
Trigger Item Name field	on Ultrasonic tab of Status/Configuration option
in Local History Analog Log page 4-8	from Measurement tab 3-103
in Local History Digital Log page 4-16	units 3-82, 3-91, 3-93, 3-97, 3-100, 3-102, 3-105, 3-
Trigger Low DB Limit field	107, 3-110, 3-111, 3-112, 3-114, 3-115, 3-116,
in Local History Analog Log page 4-7	3-118, 3-119, 3-120
in Local History Digital Log page 4-16	Units field
Trigger Low Limit field	for Analog Input on the I/O tab2-7
in Local History Analog Log page 4-7	for Analog Output on the I/O tab 2-7
in Local History Digital Log page 4-16	for Customer Slave signal list grid on the I/O tab
Trigger Status field	2-23
in Local History Analog Log page 4-7	for Transducers on the I/O tab 2-10
in Local History Digital Log page 4-16	on Al Calibration page3-128
Trigger Type field	on Al Maintenance page3-132, 3-172
in Local History Analog Log page 4-7	on Annubar tab of Status/Configuration option
in Local History Digital Log page 4-15	from Measurement tab 3-111
Troubleshooting1	on HART Configuration page 2-13
Tube Change fields	on Orifice tab of Status/Configuration option
on Venturi tab of Status/Configuration option	from Measurement tab 3-93
from Measurement tab 3-116	on Process Monitor Control Configuration page
Tube n PV field	from Control tab 5-33
on Meter Run Staging - Station n page from	on Process Value Monitor Configuration page
Control tab 5-23	from Control tab 5-39
Turb field	on Run Config tab of Status/Configuration option
on UFM Status tab of Ultrasonic Tests Measured	from Measurement tab 3-85
Values page 2-29	on V-Cone tab of Status/Configuration option
Turbine Linearization Arrays Section fields	from Measurement tab 3-119
on Load Save Configuration page 2-43	on Venturi tab of Status/Configuration option
Turbine Tab	from Measurement tab 3-115
for meter run 3-95	on Wireless HART Configuration page2-14
TX Data field	Units field for Static Pressure and Flowing
for Local DLM on the I/O tab 2-16	Temperature
Type field	on Run Config tab of Status/Configuration option
in Log page4-12	from Measurement tab 3-82
on HART Configuration page 2-11	Update button
on Ultrasonic Tests Measured Values page 2-26	on UFM Status tab of Ultrasonic Tests Measured
on Wireless HART Configuration page2-14	Values page2-33
	Upon No Flow Condition Use field
U	on Station Configuration tab of
LIC Flow Pate Unite field	Status/Configuration option from
UC Flow Rate Units field	Measurement tab3-30
on Station Configuration tab of	Upper field
Status/Configuration option from Measurement tab 3-27	on HART Configuration page2-13
UFM Arrays Section fields	on Wireless HART Configuration page2-14
CH IN CHOVS DECIDE HEIDS	

Use Al Alternate Outlet Pressure on Qbit Error	Valves to Close fields
Enabled / Disabled button	on Bi-Directional Control tab of
on Station n Local Settings page from Control	Status/Configuration option from
tab 5-15	Measurement tab 3-39
Use GC Values-Use RF Values button	Valves to Open fields
on Gas Chromatograph Response Factor page	on Bi-Directional Control tab of
	Status/Configuration option from
Use Highlighted List Item field	Measurement tab 3-39
on Math Function6-4	V-Cone Tab
User Configurable Archive 4-14	for meter run 3-117
User Name field	Vel field
on Al Maintenance page 3-175	on UFM Status tab of Ultrasonic Tests Measured
on Math Function6-4	Values page2-29
User-Defined Screen	Velocity Max field
User-Defined Screen (legacy) 6-11	on UFM Configuration 1 tab of Ultrasonic Tests
Utilities tab	
Othities tab 0-1	Measured Values page
	on UFM Configuration 2 tab of Ultrasonic Tests
V	Measured Values page2-35
V Cong Type butten	on UFM Configuration 3 tab of Ultrasonic Tests
V Cone Type button	Measured Values page 2-37
on V-Cone tab of Status/Configuration option	Velocity Min field
from Measurement tab 3-118	on UFM Configuration 1 tab of Ultrasonic Tests
Valid field	Measured Values page 2-34
on Ultrasonic Tests Measured Values page 2-27	on UFM Configuration 2 tab of Ultrasonic Tests
Value field	<u> </u>
for Customer Slave signal list grid on the I/O tab	Measured Values page2-35
2-23	on UFM Configuration 3 tab of Ultrasonic Tests
on Annubar tab of Status/Configuration option	Measured Values page 2-37
from Measurement tab 3-111	Velocity of Gas field
	on Run Config tab of Status/Configuration option
on HART Configuration page 2-13	from Measurement tab 3-85
on Orifice tab of Status/Configuration option	Venturi Diameter field
from Measurement tab 3-92	on Venturi tab of Status/Configuration option
on V-Cone tab of Status/Configuration option	from Measurement tab
from Measurement tab 3-119	Venturi Tab
on Venturi tab of Status/Configuration option	
from Measurement tab 3-115	for meter run
on Wireless HART Configuration page2-14	Verification Order Step fields
Value field for Static Pressure and Flowing	on Al Configuration page 3-177
Temperature	View Audit Log button4-3
	View Meter Protection button
on Run Config tab of Status/Configuration option	on Station n Overview page from Control tab 5-
from Measurement tab	11
Valve Position Limit Switch Feedback field	View Storage field
on Meter Run Staging - Station n page from	in Log page4-12
Control tab 5-27	Virtual Ports2-56
Valve Travel Time field	Vn field
on Control Valve screen from Measurement tab	
3-123	on UFM Status tab of Ultrasonic Tests Measured
on Meter Run Staging - Station n page from	Values page2-30
	Volume Flow Rate field
Control tab	on Coriolis Measured Values page 2-68
on Remote Control Valves page from Control tab	Volume From Frequency field
5-6	on Coriolis Measured Values page 2-68
on Station n Control Valves page from Control	Volume Inventory field
tab 5-17	on Coriolis Measured Values page 2-69
Valve Type button	
on Station n Control Valves page from Control	Volume Total field
tab 5-17	on Coriolis Measured Values page 2-68
Valve Type field	
on Control Valve screen from Measurement tab	W
	Marning Arabiva Mada not act
3-121	Warning - Archive Mode not set

IND-28 Index Issued February 2023

explanation	1-10	on Al Maintenance page	3-173
Water Vapor Content		Zero Deviation field	
from Measurement tab 3-	-162	on Al Maintenance page	3-174
When All Disabled, selection box on Cur	rent tab	Zero field	
on Gas Chromatograph Configuration		for Analog Input on the I/O tab .	2-6
from Measurement tab3-	-146	for Analog Output on the I/O tab	2-7
When All Disabled, Use Fixed button on	Current	for Transducers on the I/O tab.	2-10
tab		on Al Calibration page	3-128
on Gas Chromatograph Configuration	screen	on Al Maintenance page3-	132, 3-172
from Measurement tab3-	-146	Zero Flw Test field	
Width field		on UFM Status tab of Ultrasonic	: Tests Measured
for Floating Point Format dialog box . 2	2-24	Values page	2-30
WirelessHART Transmitters	2-13	Zero Shift (AF) Actual field	
Write to RTU button		on Al Maintenance page	3-173
on Math Function	. 6-3	Zero Shift (AF) Deviation field	
		on Al Maintenance page	3-173
X		Zero Shift (AF) Tester field	
Ymtr Tyno fiold		on Al Maintenance page	3-173
Xmtr Type field for Transducers on the I/O tab	2.0	Zero Shift Actual field	
XT version	-	on Al Maintenance page	3-174
XT Version		Zero Shift button	
V		on AI Configuration page	3-176
Υ		Zero Shift Deviation field	
Year field		on Al Maintenance page	3-174
for Time Set and Daylight Saving Time	e screen	Zero Shift field	
from I/O tab		on Al Maintenance page	3-173
Year Format field		Zero Shift Tester field	
on Load Save Configuration page	2-40	on Al Maintenance page	3-174
0 , 0		Zero Tester field	
Z		on AI Maintenance page	3-174
Zero Actual field			

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