

PLANTWEB ADVISOR FOR METROLOGY

Remote Monitoring and Predictive Analytics

Plantweb Advisor for Metrology Functionality

Plantweb Advisor for Metrology is Emerson's new modular analytics platform. It is built upon the latest technologies, providing a suite of functions and flexibility that are unprecedented within the measurement world today. This next-generation platform provides a level of standardization and automation of complex tasks that integrate seamlessly across measurement assets and engineering support locations.

The enhanced diagnostic, remote monitoring, predictive capabilities and validation provide greater insight into both process and instrumentation, driving clarity and reducing financial exposure and risk.

Custody Transfer System Analytics and Predictive Diagnostics

Oil and gas operations are facing the challenge of maintaining and supporting a large metering installed base, in addition to the shortage of skilled workforce with the looming retirement of experts. There is a need for intelligent automation to secure remote access to key system data. Emerson has a solution that addresses these challenges:

- **Remote Monitoring/Un-manned Operations** Reduces the amount of time personnel have to be at risk
- Health Assessment Dashboards Provide confidence in the measurement data
- Data Reconciliation Made easier with access to verified data
- System Reliability Improved with access to predictive diagnostics
- Contractual Obligations Met with streamlined data validation
- **Uncertainty** Reduced by utilizing advanced system diagnostics to rapidly detect and correct issues



Our solution is built on a hardware-independent and software-independent modular application platform, supporting Emerson and other vendor devices and apps. Available modules include:

- Ultrasonic Meter Diagnostic Module
- Coriolis Smart Meter Verification Module
- Gas Chromatograph Diagnostic Module
- Calculation Verification Module
- Prognosis Differential Pressure Module
- Meter Factor Trending Module
- System Uncertainty Module
- Mismeasurement Calculation Module
- Device and Calibration Manager Module



Remote Monitoring and Predictive Analytics Dashboards

A number of dashboards are provided to give at-a-glance performance indication, alongside current and historical trending and configurable reports.

					User Name: Admin	c ;
EMERSON	Plantweb Advisor for Metrology					
Remote Monitoring Continent	Country City Skid L	ne 1 Line 2 Line 3				
2 0 × 1 1 1 1 A						
F155101A	FT351018 • 0 0	FT35191C • of 0 40 60 20 0 100 0.00	Station Rates	A	Cur UVX CV MAA EN UVXI Fr UVXI Fr	NTON TOTALS rent Day DL (M3) 104.781975 DL (M3) 104.781975 104.781975 104.781975 104.781975 104.781975 104.781975
Temperature Image: Constraint of the second se	Temperature © © © © © 0 <th< td=""><td>TT351010 0 50 100</td><td>Nov 14 Nov 15</td><td>Nev 16 Nov 17</td><td>ма</td><td>DL (KSME 104.781975 SS (T) 104.781975 SY (GJ) 104.781975 GAS CHROMATS DEVIATION</td></th<>	TT351010 0 50 100	Nov 14 Nov 15	Nev 16 Nov 17	ма	DL (KSME 104.781975 SS (T) 104.781975 SY (GJ) 104.781975 GAS CHROMATS DEVIATION
Pressure c c P PT35101B 100 435349 5 PT35101A 5 48 480783 5 0 100 200 UNE DENSITY 104 781975 K0403	Pressure c c PT35101B 100 435349 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Pressure e c PT35101B 106 435349 PT35101A 106 435349 0 100 200 LINE DENSTY 104 731575 KAMAS			hand and the second	
STD DENSITY 0,7714 KG/SM3	STD DENSITY 0,7714 KG/SM3	STD DENSITY 0,7714 KG/SM3		H20		┙┝──╞
CV 41.12 MJ/KG	CV 41.12 MJ/KG	CV 41.12 MJ/KG			1500 1500 1500 1500 1500 1500	
VOS 400.00 M/S	VOS 400.00 M/S	VOS 400.00 M/S	Nov 15 Nov 17		13613 13 113 113 113 113 113 11	
DEVIATION USM HEALTH CALCULATIONS	DEVIATION USM HEALTH CALCULATIONS	DEVIATION USM HEALTH CALCULATIONS	CV 41.12 MJ/KG VOS 400.00 M/S	System 1 System 2 System 6 System 7	System 3 System 4 System 8 System 9	System 5 System 10
11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		а		Emerson	Plantweb Advisor for Metrology V1.0	?

Remote Monitoring Dashboard

	ATT (24)								0 0 9		
ne -	Server Name	Tag	Alarm Text	Qn	Acknowledged	Level	Sappressed	Disabled	Module	Flag	
2022 - 5 00 AM	Server 1	McroWaterGN//McroWaterGN//1		 On				Enabled	We shoter SWV		
2022 - 0 30 AM	Server 1	MicroVisionSNV/MicroVisionSNV/1		on	Unacknowledged	Viedum	Not Suppressed	Enabled	ViersWater SWV	•	
2022 - 3127 AM	Server 1	Chorde	According to the state of the s	01	Unacknowledged	Medum	Not Suppressed	Enabled	wid beconside	O	
2022 - 11.02 AM	Server 1	Chost	TriDevChiFail	On On	Unacknowledged	Medum	Net Suppressed	Enabled		•	
2022 - 11.02 AM	Server 1	Choide	SNRTsoLow	On On	Unacknowledged	Medium	Net Suppressed	Enabled		(E)	
2022 - 11:52 AM	Server 1	Chorda	Ottochifal	On .	Unacknowledged	biedum	Nat Suppressed	Enabled		•	
2022 - 11:52 AM	Server 1	Chords	Exceeditaritoise	On .	Unacknowledged	biedum	Nat Suppressed	Enabled		(E)	
2022 - 11:02 AM	Server 1	Choide	XdofilaimenanceRequired	On On	Unacknowledged	biedum	Not Suppressed	Enabled		() ()	
2022 - 11:52 AM	Server 1	Chode	Exceed/tar/toise	On On	Unacknowledged	biedum	Not Suppressed	Enabled		•	
2022 - 11:52 AM	Server 1	ChordA	XdofilaimenanceRequired	on	Unacknowledged	biedum	Not Suppressed	Enabled		•	
2022 - 11:52 AM	Server 1	ChordB	Excediteritoise	01	Unacknowledged	Medum	Net Suppressed	Enabled		•	
2022 - 11:52 AM	Server 1	ChordD	TriDevChiPat	01	Unacknowledged	Medum	Net Suppressed	Enabled		O	
2022 - 11.52 AM	Server 1	ChordE	TriDevChiFail	01						O	
	Server 1			01	Unacknowledged	Medium	Not Suppressed	Enabled		®	
2022 - 11.52 AM	Server 1	ChoelE	Acq5ndSpdRangeErr	01	Unacknowledged	Medium	Not Suppressed	Enabled		®	
2022 - 11.52 AM	Server 1	ChordF	XdoMaintenanceReputed		Unacknowledged	Medium	Nat Suppressed	Enabled		®	
2022 - 11.62 AM	Server 1	ChoelH	DeTrichi/Fail	01	Unacknowledged	Medium	Nat Suppressed	Enabled		®	
2022 - 11.62 AM		ChordB	SARTeoLow	On	Unacknowledged	Medium	Nat Suppressed	Enabled		œ	
2022 - 11.52 AM	Server 1	Chorat	OtTerChikFail	On	Unacknowledged	Medium	Nat Suppressed	Enabled		O	
2022 - 11:52 AM		ChordD	XdofilahtenanceRequired	On	Unacknowledged	Medum	Not Suppressed	Enabled		O	
2022 - 11:52 AM	Server 1	ChordD	Acq5ed5pd%angeErr	On	Unacknowledged	Medum	Not Suppressed	Enabled		©	

Example of an Alert Dashboard

The Emerson logo is a trademark and service mark of Emerson Electric Co. Rosemount is a registered trademark of one of the Emerson family of companies. All other marks are the property of their respective owners. ©2023 Emerson Electric Co. All rights reserved.

00807-1300-4541 Rev AA

