Rosemount™ 4088 MultiVariable™ Configuration Data Sheet

BOLD = Required Value
★= Default

❍ Select only one of the items provided
❑ One or more of the listed items can be selected

C1 option configuration information

Customer information	
Customer: _____	Contact name: _____
Phone no.: _____	Fax no./email: _____
Customer approval sign-off.: _____	P.O./reference no.: _____
P.O. line item: _____	
Model no.(1): _____	SST tag: _____

1. A complete model number is required before Emerson™ Process Management can process the order.

Transmitter information

Descriptor: _____ (16 characters)

Message: _____ (32 characters)

Long tag: _____ (32 characters)

Date: _____ (Date of calibration★) Software tag: _____ (8 characters)

Hardware tag: Wire-on: _____ (85 characters)

Nameplate: _____ (120 characters)

Transmitter address: 1 _____ (Range 1★–239)

Baud rate (Select one): ❍ 1200 ❍ 2400 ❍ 4800 ◉ 9600★ ❍ 19200

Turn around delay time: 50 ms _____ (0–200 ms, 50 ms★)

Measurement type	Process measurements
1	Differential pressure/static pressure/process temperature
2	Differential pressure/static pressure
3	Differential pressure/process temperature
4	Differential pressure
5 and 6	Static pressure/process temperature
7 and 8	Static pressure

Based on the measurement type of the transmitter, complete only the necessary process measurements listed in the table above. For example for measurement type 2 only fill out the differential pressure and static pressure units, LTV, and UTV.

EMERSON™
Process Management

Outputs[1]				
	Differential pressure[2]	Static pressure[3]	Process Temperature[4]	
Units:				
Transmitter sensor calibration:		Lower trim	Upper trim	Default values
	Differential pressure:	_____	_____	0, USL
	Static pressure:	_____	_____	Atm, USL
	Process temperature:	_____	_____	LSL, USL
Alert limits: (values should be within the upper and lower sensor limits)		Lower	Upper	Default values
	Differential pressure:	_____	_____	0, USL
	Static pressure:	_____	_____	0, USL
	Process temperature:	_____	_____	32, 140 °F

1. For measurement type 5 and 7 with “gage” static pressure type, sensor calibration must be specified as “differential pressure”. Static pressure calibration must not be specified.
2. Options for differential pressure: inH_2O @ 60 °F, PA (Pascal), Torr, PSI, g/cm^2, kPa (Kilo Pascal), inH_2O @ 68 °F, inH_2O @ 4 °C, bar, mbar, atm, inHg, ftH_2O, mmH_2O, mmHg, Kg/cm^2, MPa, mmH_2O @ 4 °C.
3. Options for static pressure: inH_2O @ 60 °F, PA (Pascal), Torr, PSI, g/cm^2, kPa (Kilo Pascal), inH_2O @ 68 °F, inH_2O @ 4 °C, bar, mbar, atm, inHg, ftH_2O, mmH_2O, mmHg, Kg/cm^2, MPa, mmH_2O @ 4 °C.
4. Options for process temperature: °F, °C.

Damping (in seconds)[1]		
Differential pressure:	0.4	(0 to 60 seconds, 0.4★)
Static pressure:	0.4	(0 to 60 seconds, 0.4★)
Process temperature:	5.0	(0 to 60 seconds, 5.0★)

1. For measurement type 5 and 7 with “gage” static pressure type, sensor calibration must be specified as “differential pressure”. Static pressure calibration must not be specified.

Configure user-defined data			
User-defined data	**Label (10 characters max. 6 or more characters will cause horizontal scrolling)**	**Value**	**UOM (Units of measure) (6 characters)**
User-defined parameter 1	_____	_____	_____
User-defined parameter 2	_____	_____	_____
User-defined parameter 3	_____	_____	_____
User-defined parameter 4	_____	_____	_____
User-defined parameter 5	_____	_____	_____
User-defined parameter 6	_____	_____	_____
User-defined variable 1	_____	N/A	_____
User-defined variable 2	_____	N/A	_____
User-defined variable 3	_____	N/A	_____

Configure display (if equipped)(1)

☑ Differential pressure★	☐ User-defined parameter 1	☐ User-defined variable 1
☑ Gage pressure★	☐ User-defined parameter 2	☐ User-defined variable 2
☑ Absolute pressure★	☐ User-defined parameter 3	☐ User-defined variable 3
☑ Process temperature★	☐ User-defined parameter 4	
☐ Module temperature	☐ User-defined parameter 5	
☐ Device address	☐ User-defined parameter 6	
☐ Baud rate		

LCD display scroll time: 3s (1–10 s, 3 s★)

1. For measurement type 5 and 7 with "gage" static pressure type, sensor calibration must be specified as "differential pressure". Static pressure calibration must not be specified.

◉ **Temperature connection★** ○ **No temperature connection (Skip to Process temperature setup)**

Temperature sensor type

○ 3-wire sensor ◉ 4-wire sensor★

Temperature sensor matching

Callendar Van-Dusen constants: ◉ IEC 751 Standard α, β, δ★ ○ Sensor matching α, β, δ ○ Sensor matching A, B, C

R0: 100.0 (100.0★) B/β: 0.10863 (0.10863★)

A/α: 0.00385 (0.00385★) C/δ: 1.4998 (1.4998★)

Process temperature setup

Temperature mode

Process temperature limit configuration

	LSL	USL	Default values
Process temperature:			–328 °F (–200 °C) 1562 °F (850 °C)

Fixed/backup temperature _____ **(Units are preselected in "Outputs" on page 2)**

Note

Options for temperature mode: Normal – The transmitter will report the measured RTD value; Backup – The transmitter will report the Fixed/backup temperature value if the RTD fails; Fixed – The transmitter will always report the Fixed/backup temperature value.

Hardware configuration

Security: ○ On ◉ Off★

Note

When "On" is selected, write protected information will not be changeable.

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