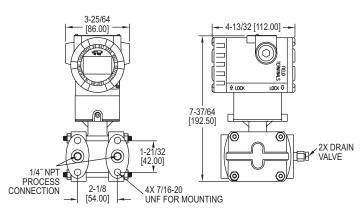
SERIES 3100 | MERCOID® BY DWYER **EXPLOSION-PROOF DIFFERENTIAL PRESSURE TRANSMITTER** HART[®], Push-Button Configuration, Rangeability (100:1)





HART

3100D

Dwyer.

3100D

Series 3100 Explosion-Proof Smart Pressure Transmitter is Mercoid[®] a microprocessor-based high performance transmitter is high performance transmitter, which has flexible pressure calibration, push-button configuration, and programmable using HART[®] Communication. The Series 3100 is capable of being configured for differential pressure or level applications with the zero and span buttons. A field calibrator is not required for configuration. The transmitter software compensates for thermal effects, improving performance. EEPROM stores configuration settings and stores sensor correction coefficients in the event of shutdowns or power loss.

The Series 3100 is FM or ATEX approved for use in hazardous (classified) locations. The 100:1 rangeability allows the smart transmitter to be configured to fit any application

FEATURES/BENEFITS

- Configurable using zero/span buttons means no calibrator required reducing time to install and running
- Range-ability and selectable engineering units, allows transmitter to fit many applications reducing the number of different transmitters to meet specifications
 High accuracy (±0.075%) provides exceptional measurement for ensuring tight-control and minimizing costly out of specification conditions
 Automatic sensor temperature compensation improves performance of device for

- Fail-mode process function stores configuration settings in the event of shutdown or power-loss provides for faster restart to getting application back on-line
 A HART® Communication programmable device provides a reliable, long-term setting for elastic the person of the optimum of the function.
- solution for plant operators who seek the benefits of intelligent devices with digital communication

APPLICATIONS

- Flow measurement
- Level monitoring
 Filter or pump differential pressure
 Critical process monitoring

MODEL CHART							
Model	Calibrated Span (Min. to Max.)		Lower Range Limit		Upper Range Limit		LCD Display
3100D-2-FM-1-1	0.6 to 30 in w.c.	0.15 to 7.5 kPa	-30 in w.c.	-7.5 kPa	30 in w.c.	7.5 kPa	No
3100D-3-FM-1-1	1.5 to 150 in w.c.	0.373 to 37.3 kPa	-150 in w.c.	-37.3 kPa	150 in w.c.	37.3 kPa	No
3100D-4-FM-1-1	7.5 to 750 in w.c.	1.865 to 186.5 kPa	-750 in w.c.	-186.5 kPa	750 in w.c.	186.5 kPa	No
3100D-5-FM-1-1	1 to 100 psi	6.9 to 690 kPa	-100 psi	-690 kPa	100 psi	690 kPa	No
3100D-6-FM-1-1	3 to 300 psi	20.68 to 2068 kPa	-300 psi	-2068 kPa	300 psi	2068 kPa	No
3100D-2-FM-1-1-LCD	0.6 to 30 in w.c.	0.15 to 7.5 kPa	-30 in w.c.	-7.5 kPa	30 in w.c.	7.5 kPa	Yes
3100D-3-FM-1-1-LCD	1.5 to 150 in w.c.	0.373 to 37.3 kPa	-150 in w.c.	-37.3 kPa	150 in w.c.	37.3 kPa	Yes
3100D-4-FM-1-1-LCD	7.5 to 750 in w.c.	1.865 to 186.5 kPa	-750 in w.c.	-186.5 kPa	750 in w.c.	186.5 kPa	Yes
3100D-5-FM-1-1-LCD	1 to 100 psi	6.9 to 690 kPa	-100 psi	-690 kPa	100 psi	690 kPa	Yes
3100D-6-FM-1-1-LCD		20.68 to 2068 kPa	-300 psi	-2068 kPa		2068 kPa	Yes
Note: Consult factory for custom calibration.							

SPECIFICATIONS

Service: Compatible gases, steam, liquids or vapors. Wetted Materials: 316L SS, fluoroelastomer. Accuracy: ±0.075% FS (@ 20°C). Rangeability: 100:1 turn down. Stability: ±0.125% FSO/yr. Temperature Limits: Process: -40 to 248°F (-40 to 120°C); Ambient: Without LCD: -40 to 185°F (-40 to 85°C); With LCD: -22 to 176°F (-30 to 80°C). Pressure Limits: Max pressure: Range: -14.5 to 2000 psi; Burst pressure: 10000 psi.

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 Thermal Effect: ±0.125% span/32°C.

 Power Requirements: 11.9 to 45 VDC.

 Output Signal: 4 to 20 mA / HART® Communication.

 Response Time: 0.12 s.

 Damping Time: 0.25 to 60 s.

 Loop Resistance: Operation: 0 to 1500 Ω; HART® Communication: 250 to 500 Ω.

 Electrical Connection: 1/4″ female NPT.

 Display: Optional 5 digit LCD.

 Enclosure Rating: NEMA 4X (IP66) and explosion-proof for Class I, Div I, Groups A, B, C and D.

 Weight: 8.6 Ib (3.9 kg).

 Agency Approvals: CE, FM, ATEX option available (consult factory).

Differential Pressure Transmitters

PRESSURE