The Mercoid® Series 3100 Smart Pressure Transmitter is a microprocessor-based 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 approved for use in hazardous (classified) locations. The 100:1 rangeability allows the smart transmitter to be configured to fit any application.

**FEATURES**
- Completely configurable using zero/span buttons (no calibrator required)
- Rangeability (100:1)
- High accuracy (0.075%)
- Automatic ambient temperature compensation
- Fail-mode process function
- Selectable engineering units

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

**SPECIFICATIONS**

**Service:** Compatible gases, steam, liquids or vapors.

**Wetted Materials:** 316L SS.

**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.
- 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 seconds.

**Damping Time:** 0.25-60 seconds.

**Loop Resistance:**
- Operation: 0 to 1500 ohm;
- HART® Communication: 250 to 500 ohm.

**Electrical Connection:** Two 1/2˝ female NPT conduit, screw terminal.

**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 lb (3.9 kg).

**Agency Approvals:** CE, FM.

**ACCESSORIES**
- A-630, Stainless steel angle type bracket with SS bolts
- A-631, Stainless steel flat type bracket with SS bolts
- BBV-1F, Flanged 3-valve block manifold
- BBV-22F, Flanged 5-valve block manifold

**NEW PRODUCT!**

Consult factory for custom calibration.

HART® is a registered trademark of Hart Communication Foundation.