



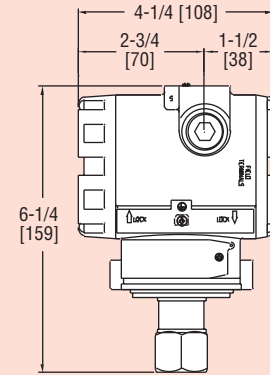
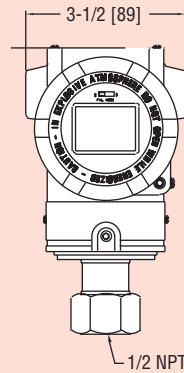
Series  
3200G

# Explosion-proof Pressure Transmitter

HART®, Push Button Configuration, Rangeability (100:1)



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The Mercoïd® Series 3200G 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 3200G is capable of being configured 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 3200G 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 ( $\pm 0.075\%$ )
- Automatic sensor temperature compensation
- Fail-mode process function

## SPECIFICATIONS

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

**Wetted Materials:** 316L SS.

**Accuracy:**  $\pm 0.075\%$  FS (@ 20°C).

**Rangeability:** 100:1 turn down.

**Stability:**  $\pm 0.125\%$  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).

**Thermal Effect:**  $\pm 0.125\%$  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 to 60 seconds.

### Loop Resistance:

Operation: 0 to 1500  $\Omega$ ;

HART® Communication: 250 to 500  $\Omega$ .

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

**Process Connections:** 1/2" 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:** 5.5 lb (2.5 kg).

**Agency Approvals:** ATEX, CE, FM.

Model	Range psi (kPa)	Calibrated Span (Min. to Max.) psi (kPa)	Max. Pressure psi (bar)	LCD Display
3200G-1-FM-1-1	-14.5 to 21 (-100 to 150)	0.22 to 21 (1.5 to 150)	58 (4)	No
3200G-2-FM-1-1	-14.5 to 217 (-100 to 1500)	2 to 217 (15 to 1500)	580 (40)	No
3200G-3-FM-1-1	0 to 725 (0 to 5000)	7.25 to 725 (50 to 5000)	2000 (138)	No
3200G-4-FM-1-1	0 to 3600 (0 to 25000)	36 to 3600 (250 to 25000)	10000 (690)	No
3200G-1-FM-1-1-LCD	-14.5 to 21 (-100 to 150)	0.22 to 21 (1.5 to 150)	58 (4)	Yes
3200G-2-FM-1-1-LCD	-14.5 to 217 (-100 to 1500)	2 to 217 (15 to 1500)	580 (40)	Yes
3200G-3-FM-1-1-LCD	0 to 725 (0 to 5000)	7.25 to 725 (50 to 5000)	2000 (138)	Yes
3200G-4-FM-1-1-LCD	0 to 3600 (0 to 25000)	36 to 3600 (250 to 25000)	10000 (690)	Yes

Contact factory for custom calibration.

## ACCESSORIES

**A-630**, Stainless steel angle type bracket with SS bolts

**A-631**, Stainless steel flat type bracket with SS bolts

**BBV-0N**, 2-valve block manifold

**DevCom2000**, HART® Communication Protocol Software

HART® is a registered trademark of Hart Communication Foundation.

<b>Example</b>	3200G	2	FM	3	1	LES	S2	A1	05	S	2	05	LCD	3200G-2-FM-3-1-LESS2A105S2-05-LCD
<b>Series</b>	3200G													3200G Explosion-Proof Pressure Transmitter
<b>Range</b>		1												-14.5 to 21 psig (factory set 0 to 21 psig)
		2												-14.5 to 217 psig (factory set 0 to 217 psig)
		3												0 to 725 psig
		4												0 to 3600 psig
		5												0 to 8500 psig
<b>Approval</b>			FM ATEX WP											FM approved ATEX approved NEMA 4X (IP66) (Only available with 316 SS housing)
<b>Process Connection</b>				1 3										1/2" female NPT Diaphragm seal
<b>Electrical Connection</b>					1									1/2" female NPT
<b>Diaphragm Seal Type</b>						LED LES LFD LFS								1 extended diaphragm seal direct mount 1 extended diaphragm seal capillary type high 1 flush diaphragm seal direct mount 1 flush diaphragm seal capillary type
<b>Mounting Flange</b>							S2 S3							2" (50 mm) 316L SS 3" (80 mm) 316L SS
<b>Mounting Flange Rating</b>								A1 A2 D1 D2 J1 J2						ANSI class 150# ANSI class 300# DIN PN 10/16 DIN PN 25/40 JIS 10 K JIS 20 K
<b>Extension Length</b>									00 05 10 15					No extension (standard for flush mount) 2" extension 4" extension 6" extension
<b>Diaphragm Material</b>										S P H T				316L SS diaphragm PTFE and 316L SS diaphragm Hastelloy C-276 diaphragm Tantalum diaphragm
<b>Fill Fluid</b>											2			Silicon oil (-40 to 400°F)
<b>Capillary Length</b>												XX		0 to 20 feet
<b>Options</b>													LCD SSH NIST CC	5 digit LCD 316 SS housing (Only available with WP approval) NIST calibration Custom calibration

#### Custom Calibration Values

<b>Primary Units</b>	in H <sub>2</sub> O, ft H <sub>2</sub> O, mm H <sub>2</sub> O, in Hg, psig, g/cm <sup>2</sup> , kg/cm <sup>2</sup> , Pa, kPa, bar, mbar, Torr, Atm, mm Hg
<b>Upper Range Limit</b>	20 mA value
<b>Lower Range Limit</b>	4 mA value
<b>Damping Time</b>	0 to 60 seconds
<b>Display Mode</b>	Primary unit, %, mA, rotate