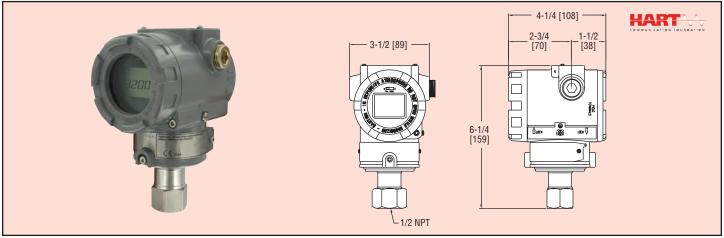


Series 3200G

Explosion-proof Pressure Transmitter

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





The Mercoid® Series 3200G Smart Pressure Transmitter is a microprocessor-based high performance transmitter, which has flexible pressure calibration, push button configuration, and programmable using HART $\!\!\!^{\otimes}$ 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.

- · Completely configurable using zero/span buttons (No calibrator required)
- · Rangeability (100:1)
- High accuracy (±0.075%)
- Automatic sensor temperature compensation
- · Fail-mode process function

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).

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 to 60 seconds.

Loop Resistance:

Operation: 0 to 1500 Ω ;

HART® Communication: 250 to 500 Ω.

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.

	Range	Calibrated Span	Max. Pressure	
Model	psi (kPa)	(Min. to Max.) psi (kPa)	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

Example	3200G	2	FM	1	LES	S2	A1	05	S	2	05	LCD	3200G-2-FM-3-1-LESS2A105S2-05-LCD
Series	3200G			3									3200G Explosion-Proof Pressure Transmitter
Range		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
Approval			FM										FM approved
• •			ATEX										ATEX approved
			WP										NEMA 4X (IP66) [Only available with 316 SS housing]
Process Connection			***	1									1/2" female NPT
				3									Diaphragm seal
Electrical Connection				1									1/2" female NPT
Diaphragm Seal Type					LED								1 extended diaphragm seal direct mount
					LES								1 extended diaphragm seal capillary type high
					LFD								1 flush diaphragm seal direct mount
					LFS								1 flush diaphragm seal capillary type
Mounting Flange		\vdash			1	S2				\neg			2" (50 mm) 316L SS
g . iai.ige						S3							3" (80 mm) 316L SS
Mounting Flange		\vdash					A1						ANSI class 150#
Rating							A2						ANSI class 300#
							D1						DIN PN 10/16
							D2						DIN PN 25/40
							J1						JIS 10 K
							J2						JIS 20 K
Extension Length		\vdash					-	00					No extension [standard for flush mount]
								05					2" extension
								10					4" extension
								15					6" extension
Diaphragm Material									S				316L SS diaphragm
paga									P				PTFE and 316L SS diaphragm
									H				Hastelloy C-276 diaphragm
									Τ.				Tantallum diaphragm
Fill Fluid										2			Silicon oil (-40 to 400°F)
Capillary Length										_	XX		0 to 20 feet
Options											,,,,	LCD	5 digit LCD
optionic .												SSH	316 SS housing (Only available with WP approval)
												NIST	NIST calibration
												CC	Custom calibration
												00	Custom Cambration

Custom Calibration Values

	in H_2O , ft H_2O , mm H_2O , in Hg , psig, g/cm^2 , kg/cm^2 , Pa , kPa , bar , $mbar$, $Torr$, Atm , $mm\ Hg$
Upper Range Limit	20 mA value
Lower Range Limit	4 mA value
Damping Time	0 to 60 seconds
Display Mode	Primary unit, %, mA, rotate