



Explosion-Proof Differential Pressure Transmitter

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

Models Select Chart

EXAMPLE	3100D	1	FM	1	1	LEC	S2	A1	00	H2	X	X	Series 3100D-1-FM-1-1-LECS2A100H2-X, Explosion Proof DP Transmitter, range 0.302-6.0" w.c., FM Approval, 1/2" npt female, 2 extended diaphragm seals capillary type, 2" mounting flange 316L, ANSI Class 150, no extension length, Hastelloy C-276 diaphragm wetted parts, DC silicon 200
SERIES	3100D												Explosion-Proof Differential Pressure Transmitter
RANGE		1 2 3 4 5 6 7											0 - 6.0" w.c. 0 - 30" w.c. 0 - 150" w.c. 0 - 750" w.c. 0 - 100 psig 0 - 300 psig 0 - 1000 psig
APPROVAL RATING			FM ATEX WP										FM Approval ATEX Approved General Purpose NEMA 4X/IP66 (SST Housing only)
PROCESS CONNECTIONS				1 3									1/4" Female NPT Diaphragm Seal
ELECTRICAL CONNECTION					1								1/2" Female NPT
DIAPHRAGM SEAL TYPE						LEC LED LEH LEL LFC LFD LFH LFL							2 Extended Diaphragm Seals Capillary Type 1 Extended Diaphragm Seals Direct Mount High Side 1 Extended Diaphragm Seals Capillary Type High Side 1 Extended Diaphragm Seals Capillary Type Low Side 2 Flush Diaphragm Seals Capillary Type

																			1 Flush Diaphragm Seals Direct Mount High Side 1 Flush Diaphragm Seals Capillary Type High Side 1 Flush Diaphragm Seals Capillary Type Low Side
MOUNTING FLANGE						S2 S3													2" (50mm) 316L Stainless Steel 3" (80mm) 316L Stainless Steel
MOUNTING FLANGE RATING						A1 A2 D1 D2 J1 J2													ANSI CLASS 150 ANSI CLASS 300 DIN PN 10/16 DIN PN 25/40 JIS 10K JIS 20K
EXTENSION LENGTH							00 05 10 15												No Extension Standard Option for Flush Mount 2" (50mm) 4" (100mm) 6" (150mm)
WETTED PARTS											H P S T								Hastelloy C-276 Diaphragm PTFE and 316L Stainless Steel Diaphragm 316L Stainless Steel Diaphragm Tantallum Diaphragm
FILL FLUID												2							D.C. Silicon 200 (-40- 400° F)
CAPILLARY LENGTH HIGH SIDE														X					Capillary length 0-20 feet (whole numbers only)
CAPILLARY LENGTH LOW SIDE															X				Capillary length 0-20 feet
OPTIONS																			LCD 5 Digit LCD SSH 316 Stainless Steel Housing CC (Only w/WP housing) Custom Calibration NIST NIST Traceable Calibration Certificate

Accessories

Model	Description
A-630	316SS angle bracket with bolts.
A-631	316SS flat bracket with bolts.
BBV-1F	Flanged 3-valve block manifold.
BBV-22F	Flanged 5-valve manifold with top mounted vent valves.
DevCom2000	HART® Communicator Software
A-632	1/2" npt adapter
A-467	Sintered filter, 1/4" male npt, bronze

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); Ambient (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	: $\pm 0.125\%$ 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	: 0.25-60 seconds.
Loop Resistance	: Operation: 0 to 1500 Ohm; HART® Communication: 250 to 500 Ohm.
Electrical Connection	: Two 1/2" female NPT conduit, screw terminal.

Process 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 lb (3.9 kg).
Agency Approvals	:	CE, FM, ATEX option available (consult factory).