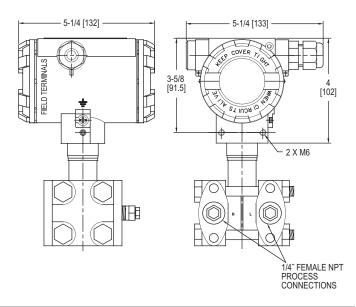


SMART DIFFERENTIAL PRESSURE TRANSMITTER HART® Communication, Push Button Configuration, Rangeability (Up to 25:1)







The Series 3500 Smart Differential Pressure Transmitter is a microprocessorbased high performance transmitter, which has flexible pressure calibration, push button configuration, and is programmable using HART® Communication. The Series 3500 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 3500 can be configured to be ATEX or IECEX approved for use in hazardous (classified) locations. The rangeability allows the smart transmitter to be configured to fit any application.

FEATURES/BENEFITS

- High accuracy (±0.075% FS)
- Rangeability (up to 25:1)
- · Configurable using zero/span buttons (no calibrator required)
- · Fail-mode process function
- · Automatic ambient temperature compensation

APPLICATIONS

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

MODEL CHART						
Model	Range					
3500-AL-02-NF-2	-10 to 10 in w.c.					
3500-AL-04-NF-2	0 to 30 in w.c.					
3500-AL-08-NF-2	0 to 100 in w.c.					
3500-AL-10-NF-2	-200 to 200 in w.c.					
3500-AL-15-NF-2	0 to 1000 in w.c.					
3500-AL-20-NF-2	0 to 15 psi					
3500-AL-25-NF-2	0 to 100 psi					
Note: Bar ranges are also available.						

SPECIFICATIONS

Service: Compatible gases, steam, liquids or vapors.

Wetted Materials: 316L SS and FPM; with diaphragm seal: 316L SS.

Accuracy: ±0.075% FS (@ 20°C). Rangeability: Up to 25:1 turn down. Stability: ≤0.075% FSO/3 years.

Temperature Limits: Ambient: -40 to 185°F (-40 to 85°C); Process with -DS: -40 to

400°F (-40 to 204°C).

Thermal Effect: < ±0.05% span/10°C. Power Requirements: 10-55 VDC.

Output Signal: 4-20 mA.

Response Time: 16 to 480 ms (programmable).

Damping Time: 0 to 60 s.

MTBF (Mean Time Between Failure): 124 years. MTTF (Mean Time To Failure): MTBF minus 8 h.

Electrical Connection: Packing gland M20x1.5, two 1/2" female NPT conduit,

screw terminal.

Process Connections: 1/4" female NPT.

Enclosure Rating: NEMA 4X IP66/IP67.

Agency Approvals: CE; -IS, -FP suffix: ATEX Compliant (€ 0518 II 2G ⓑ ia/db IIC T6/T5 Gb Ta<80°C, T5 / II 2D Ex ia/tb IIIC T85°C/T100°C Db. Type Certificate No. KDB 17ATEX0056X. ATEX Standards: EN 60079-0:2012+A11:2013, EN 60079-1:2014, EN 60079-11:2012, EN 60079-26:2015, EN 60079-31:2014 IECEx Compliant: Ex ia/db IIC T6/T5 Gb / Ex ia/tb IIIC T85°C/T100° Db. Certificate of Conformity IECEx KDB 17.0008X. IECEx Standards: IEC 60079-0:2011, IEC 60079-1:2014-06, IEC 60079-11:2011, IEC 60079-26:2006, IEC 60079-31:2013





SMART DIFFERENTIAL PRESSURE TRANSMITTER HART® Communication, Push-Button Configuration, Rangeability (Up to 25:1)

MODEL CHART												
Example	3500	-AL	-01	-DS	-1	-SPRB	Α	0	-1	-1	-NIST	3500-AL-01-DS-1-SPRBA0-1-1-NIST
Series	3500											Smart differential pressure smart transmitter
Housing		AL										Aluminum housing
		AS										Stainless steel housing
Range			02									-10 to 10 in w.c.
			04									0 to 30 in w.c.
			08									0 to 100 in w.c.
			10									-200 to 200 in w.c.
			15									0 to 1000 in w.c.
			20									0 to 15 psi
			25									0 to 100 psi
			38									0 to 230 psi
			40									0 to 1000 psi
			50									-2.5 to 2.5 in w.c.
			60									-1.5 to 1.5 psi
Process Connections				NF								1/4" female NPT adapter
				DS								Diaphragm seal selection
Electrical Connections					1							Packing gland M20x1.5
					2							Thread 1/2" female NPT
Diaphragm Seal Type						SPDH						S-P flush diaphragm seal direct mount high side
						SPRB						S-PK flush diaphragm seal capillary type both sides
						SPRH						S-PK flush diaphragm seal capillary type high side
						STDH						S-T extended diaphragm seal direct mount high side
						STRB						S-TK extended diaphragm seal capillary type both sides
						STRH						S-TK extended diaphragm seal capillary type high side
Mounting Flange							Α					2" ANSI
							В					2" DN50
							С					3" ANSI
							D					3" DN80
Extension Length								0				No extension, flush mount
_								2				2" (50 mm)
								4				4" (100 mm)
								6				6" (150 mm)
Capillary Length High Side									#			High side capillary length, 1 to 20 ft (increments of 1)
Capillary Length Low Side										#		Low side capillary length, 1 to 20 ft (increments of 1)
Options											FP	ATEX/IECEx flameproof
											IS	ATEX/IECEx intrinsically safe
											MT	Stainless steel tag plate mounted on wire
											NIST	NIST traceable calibration certificate
											GB	2" galvanized steel mounting bracket
											SB	2" SS mounting bracket
											ST	Stainless steel plate riveted to the housing

ACCESSORIES					
Model	Description				
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				