

SERIES 3500 | SMART DIFFERENTIAL PRESSURE TRANSMITTER



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

DESCRIPTION

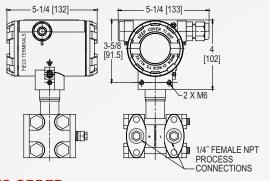
The Series 3500 Smart Differential Pressure Transmitter is a microprocessor-based high performance transmitter, which has flexible pressure calibration, push button configuration, and programmable using HART® Communication. The Series 3500 is capable of being configured for differential pressure or level 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.

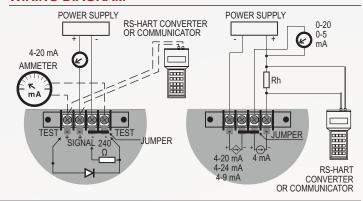
SPECIFICATIONS

Service	Compatible gases, steam, liquids or vapors.		
Wetted Materials	316L SS and FPM; with -DS: 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 w/ -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)	Time To Failure) MTBF minus 8 h.		
Loop Resistance	Operation: 0 to 1500 Ω ; HART® communication: min. 240 Ω , max. 1100 Ω .		
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 C € 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.		

DIMENSIONS

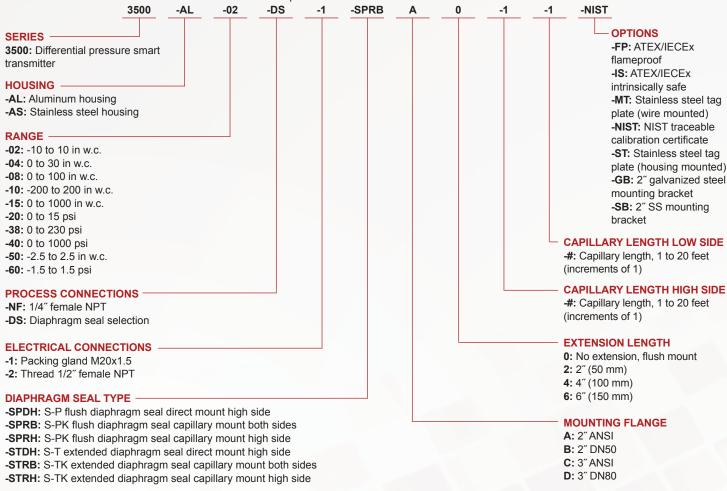
WIRING DIAGRAM





HOW TO ORDER

Use the **bold** characters from the chart below to construct a product code.



ACCESSORIES

Model	Description	Model	Description	
A-630	Stainless steel angle type bracket with SS bolts	BBV-22F	Flanged 5-valve block manifold	
A-631	Stainless steel flat type bracket with SS bolts	DevCom2000	HART® Communication Protocol Software	
BBV-1F	Flanged 3-valve block manifold			

ORDER ONLINE TODAY!

dwyer-inst.com/Product/Series3500

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DS-3500 Rev. 5