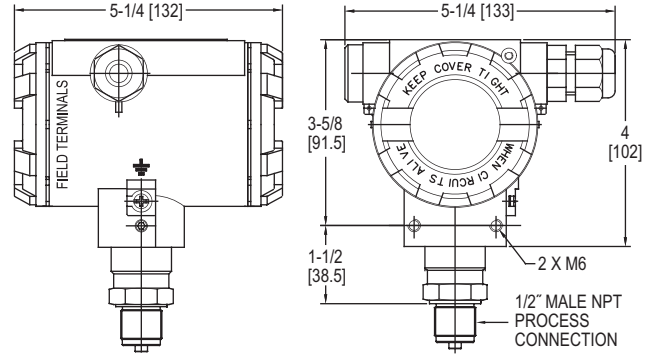


# SMART PRESSURE TRANSMITTER

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



The **Series 3400 Smart Pressure Transmitter** is a microprocessor-based high performance transmitter, which has flexible pressure calibration, push-button configuration, and is programmable using HART® Communication. The Series 3400 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 3400 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 most applications.

**FEATURES/BENEFITS**

- High accuracy ( $\pm 0.075\%$  FS)
- Rangeability (up to 100:1)
- Configurable using zero/span buttons (no calibrator required)
- Fail-mode process function
- Automatic ambient temperature compensation

**APPLICATIONS**

- Water and wastewater
- Chemical and petrochemical
- Pulp and paper
- Oil and gas
- Food and beverage

MODEL CHART			
Model	Range	Min. Set Range	Overpressure limit
3400-AL-10-NM-2	0 to 15 psi	1.45 psi	30 psi
3400-AL-13-NM-2	0 to 100 psi	1.45 psi	200 psi
3400-AL-15-NM-2	0 to 350 psi	3.6 psi	725 psi
3400-AL-20-NM-2	0 to 2300 psi	14.5 psi	6525 psi
3400-AL-23-NM-2	0 to 4350 psi	43.5 psi	6525 psi

**Note:** Bar ranges are also available.

**SPECIFICATIONS**

**Service:** Compatible gases, steam, liquids or vapors.  
**Wetted Materials:** 316L SS.  
**Accuracy:**  $\pm 0.075\%$  FS (@ 20°C).  
**Rangeability:** Up to 100:1 turn down.  
**Stability:**  $\leq 0.075\%$  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:**  $< \pm 0.05\%$  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):** 126 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:** 1/2" female or male NPT.  
**Enclosure Rating:** NEMA 4X IP66/IP67.  
**Agency Approvals:** CE; -IS, -FP suffix: ATEX Compliant CE 0518 II 2G Ex 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.

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MODEL CHART											
Example	3400	-AL	-01	-DS	-1	-SPD	A	0	-1	-NIST	3400-AL-01-DS-1-SPDA0-1-NIST
Series	3400										Single pressure smart transmitter
Housing		AL AS									Aluminum housing Stainless steel housing
Range			01 03 05 07 10 11 13 15 17 20 23 26 29								0 to 18 psia 0 to 100 psia 0 to 350 psia 0 to 1000 psia 0 to 15 psi 0 to 30 psi 0 to 100 psi 0 to 350 psi 0 to 1000 psi 0 to 2300 psi 0 to 4350 psi 0 to 8700 psi 0 to 14500 psi
Process Connections				NM NF DS							1/2" male NPT 1/2" female NPT Diaphragm seal selection
Electrical Connections					1 2						Packing gland M20x1.5 Thread 1/2" female NPT
Diaphragm Seal Type						SPD SPR STD STR					S-P flush diaphragm seal direct mount S-PK flush diaphragm seal capillary mount S-T extended diaphragm seal direct mount S-TK extended diaphragm seal capillary mount
Mounting Flange							A B C D				2" ANSI 2" DN50 3" ANSI 3" DN80
Extension Length								0 2 4 6			No extension, flush mount 2" (50 mm) 4" (100 mm) 6" (150 mm)
Capillary Length									#		Capillary length, 1 to 20 ft (increments of 1)
Options										FP IS MT NIST GM SM ST	ATEX/IECEx flameproof ATEX/IECEx intrinsically safe Stainless steel tag plate mounted on wire NIST traceable calibration certificate 2" galvanized steel mounting bracket 2" SS mounting bracket 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