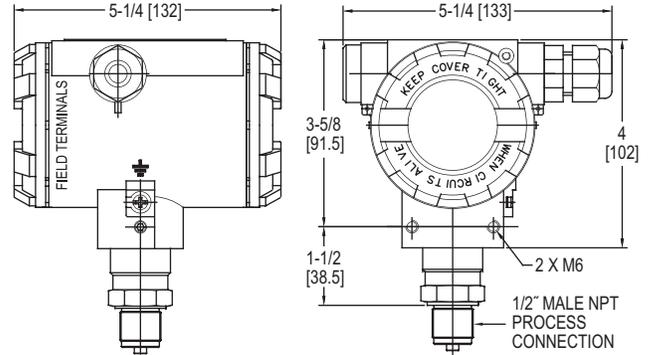# SERIES 3400

CE Ex HART

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

VIDEO ONLINE

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 (±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

SPECIFICATIONS
Service: Compatible gases, steam, liquids or vapors.
Wetted Materials: 316L SS.
Accuracy: ±0.075% FS (@ 20°C).
Rangeability: Up to 100:1 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): 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.

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.			

SERIES 3400

SMART PRESSURE TRANSMITTER

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

Dwyer ℃ € ⟨Ex⟩ **HART**

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									Aluminum housing
		AS									Stainless steel housing
Range			01								0 to 18 psia
			03								0 to 100 psia
			05								0 to 350 psia
			07								0 to 1000 psia
			10								0 to 15 psi
			11								0 to 30 psi
			13								0 to 100 psi
			15								0 to 350 psi
			17								0 to 1000 psi
			20								0 to 2300 psi
			23								0 to 4350 psi
			26								0 to 8700 psi
			29								0 to 14500 psi
Process Connections				NM							1/2″ male NPT
				NF							1/2″ female NPT
				DS							Diaphragm seal selection
Electrical Connections					1						Packing gland M20x1.5
					2						Thread 1/2″ female NPT
Diaphragm Seal Type						SPD					S-P flush diaphragm seal direct mount
						SPR					S-PK flush diaphragm seal capillary mount
						STD					S-T extended diaphragm seal direct mount
						STR					S-TK extended diaphragm seal capillary mount
Mounting Flange							A				2″ ANSI
							B				2″ DN50
							C				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									#		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
										GM	2″ galvanized steel mounting bracket
										SM	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