Explosion Proof Transducer (Amplified) Series 423X, 425X, 426X

Features

- Diffused silicon sensor for high accuracy
- Explosion proof enclosure for hazardous locations
- Superior EMI, ESD and RFI protection
- Rugged stainless steel construction
- NEMA 4X, 7 and 9
- ATEX/IECEx certification for 425X Series only
- Modular concept
- Built-in high pressure snubber (2000 psi and above)
- cULus, CE approved

Applications

- Oil & gas pipelines
- Oil patch
- Petrochemical plants
- Refineries
- Pulp and paper mills
- Coal and oil fired power plants
- Cement plants
- Gas transfers for fuel systems
- Gas panels
- Gas mixing systems



General Specifications*

Accuracy (LH & R):	±0.25% BSL (±0.5% for vacuum only [-23])			
Long Term Stability:	±0.5% FSO of calibration curve			
Typical Life Cycle:	100 million cycles			
Proof Pressure:	2 times rated pressure or 13,000 psi max. (884 bar), whichever is less			
Input: 423X:	Excitation voltage: 9 to 28 VDC			
426X:	Excitation voltage: 14 to 28 VDC			
425X:	Excitation voltage: 12 to 28 VDC			
Supply Current:	3.0 mA maximum (no load)			
Output: 423X:	Output: 0.5 to 5.5 VDC Full scale output: 5.0 VDC ± 0.8% Zero output: 0.5 VDC ± 0.4%			
426X:	Output: 1 to 11 VDC Full scale output: 10 VDC ± 1% Zero output: 1.0 VDC ± 2%			
425X:	Output: 4 to 20 mA Full scale output: 16 mA ± 1% Zero output: 4 mA ± 2%			
Wetted Parts:	17-4 PH (fitting)** & 316 stainless steel (sensor)			

<sup>See product configurator for additional options.
** Consult factory for 316SS option</sup>

MILLIVOLT SERIES - 423X & 426X						
Cable	Signal					
Red	+ Excitation					
White	+ Output					
Black	Common					
Bare	Drain					
MILLIAMP SERIES - 425X						
Red	+ Excitation					
Black	- Excitation					
Bare	Drain					

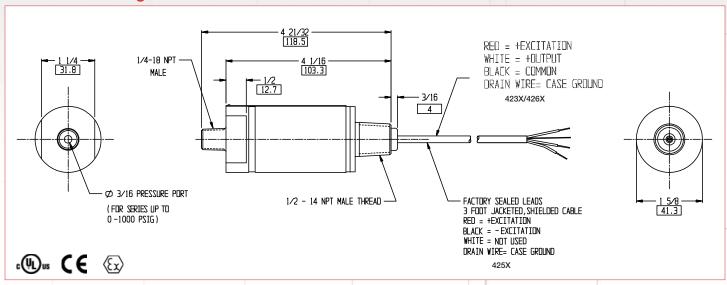
Wiring Code

1				
Enclosure:	NEMA 4, 300 series stainless steel			
Pressure Connection:	1/4"-18 NPT male			
Electrical Connection:	3 conductor for voltage series and 2 conductor for current series, 24 awg, PVC jacketed, shielded cable, 3 ft. (1 m) long with integral strain relief and case ground (standard).			
Temperature Ranges: Operating:	-40° to 185°F (-40° to 85)°C			
Compensated:	30° to 160°F (-1° to 71)°C			
Storage:	-40° to 185°F (-40° to 85)°C			
Temperature Shift: Zero & Span:	0.0125% per °F over compensated range 75°F reference			
Vibration:	15 g's, 10-2000 Hz, MIL-STD 202			
Shock:	50 g's, 11 mS, MIL-STD 202 Method 213, Cond. G.			
Approvals: All:	cULus approved as telemetering equipment for use in hazardous locations (UL File E146589, WYMV, WYMV7) as follows: Class I, Div. 1, Groups A, B, C & D			
425X only:	Class II, Groups E, F & G. ATEX/IECEx Certification: CE 0081 ⟨ ∑			
Weight: 423X & 426X:	7.4 oz. (221 grams) to 1000 psi 9.9 oz. (281 grams) 2,000 psi and higher			
425X:	7.4 oz. (210 grams) to 1000 psi 9.4 oz. (266 grams) 2,000 psi and higher			
Warranty:	1 year warranty			



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Technical Drawings



-04

-A

Product Configurator

Base Model -

423X	0.5 - 5.5 VDC analog ouput
425X	4 - 20 mA analog output
426X	1 - 11 VDC analog output

		0	 Optic	ons
rassu	re Range		-Z1(1 to 5V output (available only or 423X models)
-23	0 - 29.9" of Hg		-Z1	1 to 6V output (available only of 423X models)
-01 -21	0 - 15 psi (0 - 1 bar) ² 0 - 30 psi (0 - 2.1 bar) ²		-Z12	0.5 to 4.5V output (available on
-22	0 - 60 psi (0 - 4.1 bar) ²		-Z16	0.2 to 10V output (available only
-03 -04	0 - 50 psi (0 - 3.5 bar) ² 0 - 100 psi (0 - 6.9 bar) ²		-Z15	
-05	0 - 150 psi (0 - 10.3 bar) ²		-Z17	For high pressure models with larger orifice
-06 -07	0 - 200 psi (0 - 12.8 bar) ² 0 - 300 psi (0 - 20.7 bar) ²		-Z18	
08	0 - 500 psi (0 - 34.5 bar)		-ZXX	Special pressure ranges (see note 1)
19 10	0 - 600 psi (0 -41 bar) 0 - 1,000 psi (0 - 69 bar)		-WX>	Additional length of free leads
11 12	0 - 1,500 psi (0 - 104 bar) 0 - 2,000 psi (0 - 138 bar)	——Рі	roce	ess Connection
-13	0 - 3,000 psi (0 - 207 bar)		Blan	k 1/4-18 NPT male (standard)
14	0 - 4,000 psi (0 - 276 bar)		-P1	7/16-20 UNF-2B female
-15	0 - 5,000 psi (0 - 345 bar)		-P3	7/16-20 UNF-2B male (SAE)
16	0 - 6,000 psi (0 - 414 bar)			
-17	0 - 7,500 psi (0 - 517 bar)	В	lank	Gauge pressure (standard)
-18	0 - 10,000 psi (0 - 689 bar)		-A	Absolute pressure range (<300psi)

Note 1: Add suffix ZXXY for special pressure range calibration. XX = significant digits. Y = number of trailing zeros. Example: 130 psi calibration: add -Z131

Example:

425X

^{2:} Available in absolute range

^{3:} For pressure >10kpsi with a 3/16 diameter pressure port orifice, no surge protector will be offered.

^{4:} Minimum quantities may apply.