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
- ► IECEx approval for 425X
- 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*

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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)	

^{*} See product configurator for additional options. ** Consult factory for 316SS option

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

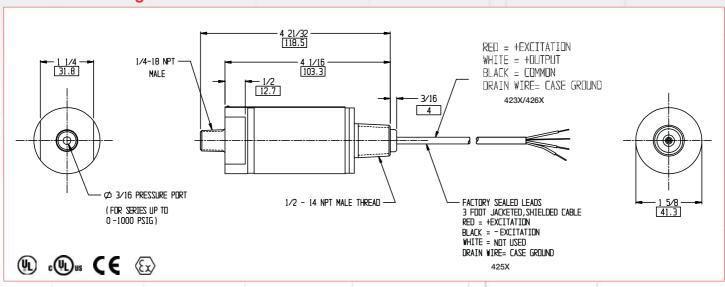
Wiring Code

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:	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 Class II, Groups E, F & G.	
425X only:	DEMKO 04 ATEX 0334369X/ IECEx UL 13.0036X	
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

D		

425X

Example:

Pressure Range		
-23	0 - 29.9" of Hg	
-01	0 - 15 psi (0 - 1 bar) ²	
-21	0 - 30 psi (0 - 2.1 bar) ²	
-22	0 - 60 psi (0 - 4.1 bar) ²	
-03	0 - 50 psi (0 - 3.5 bar) ²	
-04	0 - 100 psi (0 - 6.9 bar) ²	
-05	0 - 150 psi (0 - 10.3 bar) ²	
-06	0 - 200 psi (0 - 12.8 bar) ²	
-07	0 - 300 psi (0 - 20.7 bar) ²	
-08	0 - 500 psi (0 - 34.5 bar)	
-19	0 - 600 psi (0 -41 bar)	
-10	0 - 1,000 psi (0 - 69 bar)	
-11	0 - 1,500 psi (0 - 104 bar)	
-12	0 - 2,000 psi (0 - 138 bar)	
-13	0 - 3,000 psi (0 - 207 bar)	
-14	0 - 4,000 psi (0 - 276 bar)	
-15	0 - 5,000 psi (0 - 345 bar)	
-16	0 - 6,000 psi (0 - 414 bar)	
-17	0 - 7,500 psi (0 - 517 bar)	
-18	0 - 10,000 psi (0 - 689 bar)	

-Z10	1 to 5V output (available only on 423X models)
-Z11	1 to 6V output (available only on 423X models)
-Z12	0.5 to 4.5V output (available only on 423X models)
-Z16	0.2 to 10V output (available only on 426X models)
-Z15	Calibrated in bars
-Z17 ³	For high pressure models with larger orifice
-Z18	Z17 and Z10 options combined
-ZXXY	Special pressure ranges (see note 1)
-WXXX	Additional length of free leads (in inches)
242222	Connection

Process Connection

Options

Blank	1/4-18 NPT male (standard)	
-P1	7/16-20 UNF-2B female	
-P3	7/16-20 UNF-2B male (SAE)	

Blank Gauge pressure (standard) 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

Available in absolute range
For pressure >10kpsi with a 3/16 diameter pressure port orifice, no surge protector will be offered.

4: Minimum quantities may apply.