General Industrial Transducer (Amplified)

Series 423, 425, 426

Features

- ► General purpose, industrial grade transducer
- ▶ Diffused silicon sensor for high accuracy and reliability
- Rugged stainless steel enclosure
- Superior surge voltage protection and EMI/RFI immunity
- ▶ Built-in high pressure snubber (2000 psi and above)
- Current and voltage signals
- ▶ UL and cUL approved (UL508)

Applications

- Industrial hydraulic equipment
- Cranes
- Compressors
- Gas metering
- Vacuum machinery packaging

General Specifications*

Accuracy (LH & R):	$\pm 0.25\%$ FSO ($\pm 0.5\%$ for vacuum only [-23]) at 75°F (24°C), typical
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. (896 bar), whichever is less
Input: 423:	Excitation voltage: 11 to 30 VDC
426:	Excitation voltage: 14 to 30 VDC
425:	Excitation voltage: 12 to 30 VDC
Supply Current:	16 mA maximum (no load)
Min. Load Resistance:	2K ohms (voltage series only)
Output: 423:	Output: 0.5 to 5.5 VDC Full scale output: 5.0 VDC \pm 1% Zero output: 0.5 VDC \pm 2%
426:	Output: 1 to 11 VDC Full scale output: 10 VDC \pm 1% Zero output: 1.0 VDC \pm 2%
425:	Output: 4 to 20 mA Full scale output: 16 mA \pm 1% Zero output: 4 mA \pm 2%

^{*} See product configurator for additional options.

Wiring Code

Voltage - Series 423, 426						
T2		H3				
Α	1	Red	+ Excitation			
В	3	White	+ Output			
C	2	Black	Common			
D	4	Bare	Case Drain			
Milliamp - Series 425						
Α	1	Red	+ Excitation			
В	2	Black	- Excitation			
D	4	Bare	Case Drain			

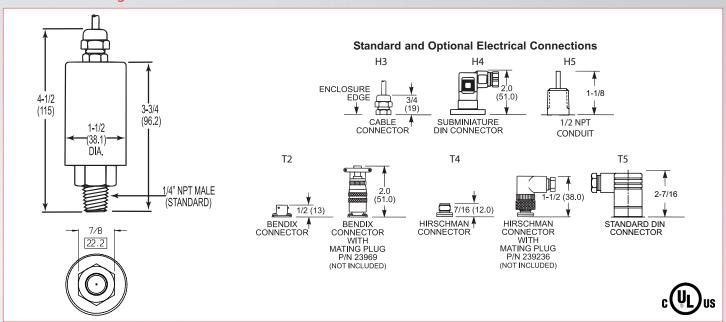


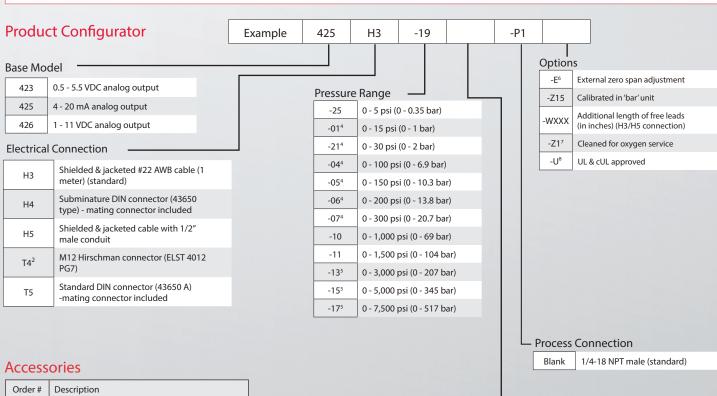
Wetted Parts:	17-4 PH (fitting) & 300 stainless steel (sensor)
Enclosure:	NEMA 4, 300 series stainless steel
Pressure Connection:	1/4"-18 NPT male (STD)
Response Time:	2 kHz
Electrical Connection:	3 conductor for voltage series and 2 conductor for current series, 24 awg, PVC jacketed, shielded cable, 3 ft. (1 m) long with integral strain relief and case ground.
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.
Built-in Electrical Protection:	Conducted & radiated RF emissions/ interference to EN 55011
	IEC 801-2, -3, -4, -5, and -6
	EN/IEC 61000-4-2, -3, -4, -5, -6
	Refer to engineering sales drawing for details.
Weight: 423 & 426:	7.4 oz. (221 grams) to 1000 psi 9.9 oz. (281 grams) 2,000 psi and higher
425:	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





	Order#	Description
	23969	Bendix mating connector (T2 electrical option)
	239236	Hirschman mating connector (T4 electrical option)
	208360	Pressure snubber (1/4-18 NPT female/male)

Mating connector: Bendix # PT06E-8-4S or equivalent (not included). Order number: 23969

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Absolute pressure range (<300psi)

Gauge pressure

Mating connector: Hirschman # ELWIKA 4012 PG7 or equivalent (not included). Order number: 239236 Add suffix ZXXY for special pressure ranges. XX = significant digits. Y = number of trailing zeros. Example: for 230psi callibration, add Z231

¹ Available in absolute ranges

⁶ Available with connector options H3 and T4 only ⁵ Built-in surge protector Not UL approved

⁸ Ambient: 60° C - 420, 422; 80°C - 423, 425, 426