# **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\***

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Accuracy (LH & R):	±0.25% FSO (±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: 426:	Excitation voltage: 11 to 30 VDC  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)	
<b>Output:</b> 423:	Output: 0.5 to 5.5 VDC Full scale output: 5.0 VDC ± 1% Zero output: 0.5 VDC ± 2%	
426:	Output: 1 to 11 VDC Full scale output: 10 VDC ± 1% Zero output: 1.0 VDC ± 2%	
425:	Output: 4 to 20 mA Full scale output: 16 mA ± 1% Zero output: 4 mA ± 2%	

<sup>\*</sup> See product configurator for additional options.

### **Wiring Code**

Voltage - Series 423, 426				
Т	2	Н3		
Α	1	Red	+ Excitation	
В	3	White	+ Output	
С	2	Black	Common	
D	4	Bare	Case Drain	
Milliamp - Series 425				
Α	1	Red	+ Excitation	
В	2	Black	- Excitation	
D	4	Bare	Case Drain	

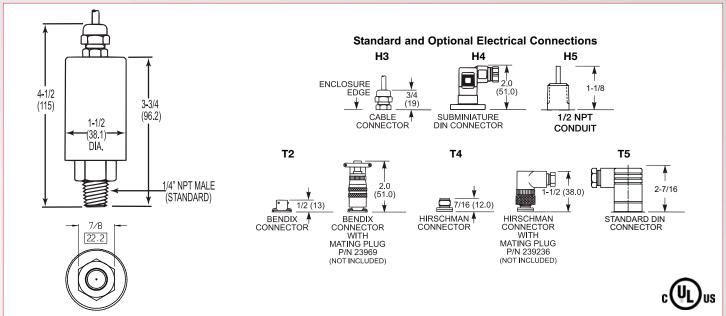


Wetted Parts:	17-4 PH (fitting) & 300 stainless steel (sensor)		
Enclosure:	NEMA 4, 300 series stainless steel		
Pressure Connection:	1/4"-18 NPT male (STD)		
Response Time:	2 kHz		
Electrical Connection:	3 conductor for voltage series and 2 conductor for current series, 24 awg, PVC jacketed, shielded 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.		
<b>Weight:</b> 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		



## General Industrial Transducer (Amplified) Series 423, 425, 426

### **Technical Drawings**



#### **Product Configurator** -P1 Example 425 **H3** -19 **Options** Base Model Nema 4X enclosure (H3 Option only) -N4X7 423 0.5 - 5.5 VDC analog output \$200 minimum per order Pressure Range 425 -E<sup>6</sup> 4 - 20 mA analog output External zero span adjustment 0 - 29.9" of Hg (Vacuum) 1 - 11 VDC analog output 426 -Z15 Calibrated in 'bar' unit -25 0 - 5 psi (0 - 0.35 bar) 1 to 5V output (available only on 423 -014 0 - 15 psi (0 - 1 bar) **Electrical Connection** --Z10 -214 0 - 30 psi (0 - 2 bar) Shielded & jacketed #22 AWB cable (1 1 to 6V output (available only on 423 Н3 -Z11 meter) (standard) -034 0 - 50 psi (0 - 3.5 bar) Subminature DIN connector (43650 -224 0 - 60 psi (0 - 4 bar) 0.5 to 4.5V output (available only on -Z12 H4 type) - mating connector included -044 0 - 100 psi (0 - 6.9 bar) 0.2 to 10V output (available only on Shielded & jacketed cable with 1/2" -Z167 Н5 426 models) Not UL approved $-05^{4}$ 0 - 150 psi (0 - 10.3 bar) Additional length of free leads -06<sup>4</sup> 0 - 200 psi (0 - 13.8 bar) T2<sup>1</sup> Bendix connector (PT02A-8-4P) - 4 pin -WXXX (in inches) (H3/H5 connection) -074 0 - 300 psi (0 - 20.7 bar) Bendix connector (PT02E-10-6P)-6 pin T3 -ZXXY<sup>3</sup> Special pressure ranges 0 - 500 psi (0 - 34.5 bar) -08 M12 Hirschman connector (ELST 4012 T4<sup>2</sup> Cleaned for oxygen service 0 - 600 psi (0 -41 bar) -19 UL & cUL approved Standard DIN connector (43650) -0 - 1,000 psi (0 - 69 bar) -10 T5 mating connector included **Process Connection** -11 0 - 1,500 psi (0 - 104 bar) Blank 1/4-18 NPT male (standard) -12<sup>5</sup> 0 - 2,000 psi (0 - 138 bar) Accessories -13<sup>5</sup> 0 - 3,000 psi (0 - 207 bar) -P1 7/16-20 UNF-2B female Order # Description -145 0 - 4,000 psi (0 - 276 bar) 7/16-20 UNF-2A male (JIC 37°) Bendix mating connector 23969 -15<sup>5</sup> 0 - 5,000 psi (0 - 345 bar) -P4 1/2" NPT male (T2 electrical option) -165 0 - 6,000 psi (0 - 414 bar) 1/2" NPT female -P5 Hirschman mating connector 239236 -17<sup>5</sup>

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

Pressure snubber (1/4-18 NPT female/male)

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 Available with connector options H3 and T4 only

Available in absolute ranges <sup>5</sup> Built-in surge protector

208360

(T4 electrical option)

7 Not UL approved

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

0 - 7,500 psi (0 - 517 bar)

0 - 10,000 psi (0 - 689 bar)

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Absolute pressure range (<300psi)

1/4" NPT female

Gauge pressure

G1/4 male (Gasket Seal)

-P6

Blank