# General Industrial Transducer (Amplified) S

# 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% 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	
<b>Input:</b> 423:	Excitation voltage: 9 to 30 VDC	
426:	Excitation voltage: 14 to 30 VDC	
425:	Excitation voltage: 12 to 32 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 ± 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% Span: 16mA	

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

# **Wiring Code**

3				
	Voltage - Series 423, 426			
T2		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	

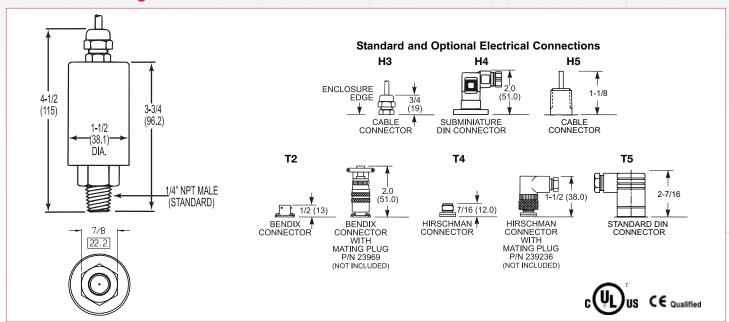


Wetted Parts:	17-4 PH (fitting) & 316 stainless steel (sensor)
Enclosure:	NEMA 4, 300 series stainless steel
Pressure Connection:	1/4"-18 NPT male (STD)
Response Time:	2 kHz
Electrical Connection:	3 conductor for voltage series and 2 conductor for current series, 24 awg, PVC jacketed, shielded cable, 3 ft. (1 m) long with integral strain relief and case ground.
<b>Temperature Ranges:</b> 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 (±1% of FSO over temp. range)
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 6100-4-2, -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



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### **Technical Drawings**



## **Product Configurator**

#### **Base Model**

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

#### **Electrical Connection**

НЗ	Shielded & jacketed #22 AWB cable (1 meter) (standard)
H4	Subminature DIN connector (43650 type) - mating connector included
H5	Shielded & jacketed cable with 1/2" male conduit
T2 <sup>1</sup>	Bendix connector (PT02A-8-4P) - 4 pin
T3	Bendix connector (PT02E-10-6P)-6 pin
T4 <sup>2</sup>	M12 Hirschman connector (ELST 4012 PG7)
T5	Standard DIN connector (43650) - mating connector included

#### **Accessories**

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)

# **Pressure Range**

**H3** 

0 - 29.9" of Hg

-19

425

Example

-25	0 - 5 psi (0 - 0.35 bar)
-01	0 - 15 psi (0 - 1 bar) <sup>4</sup>
-21	0 - 30 psi (0 - 2 bar) <sup>4</sup>
-03	0 - 50 psi (0 - 3.5 bar) <sup>4</sup>
-22	0 - 60 psi (0 - 4 bar) <sup>4</sup>
-04	0 - 100 psi (0 - 6.9 bar)4
-05	0 - 150 psi (0 - 10.3 bar) <sup>4</sup>
-06	0 - 200 psi (0 - 12.8 bar) <sup>4</sup>
-07	0 - 300 psi (0 - 20.7 bar) <sup>4</sup>
-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) <sup>5</sup>
-13	0 - 3,000 psi (0 - 207 bar) <sup>5</sup>
-14	0 - 4,000 psi (0 - 276 bar) <sup>5</sup>
-15	0 - 5,000 psi (0 - 345 bar) <sup>5</sup>
-16	0 - 6,000 psi (0 - 414 bar) <sup>5</sup>
-17	0 - 7,500 psi (0 - 517 bar) <sup>5</sup>
-18	0 - 10,000 psi (0 - 689 bar) <sup>5</sup>

# **Options**

-N4X	Nema 4X enclosure (H3 Option only)
-E <sup>6</sup>	External zero span adjustment
-Z15	Calibrated in bars
-Z10	1 to 5V output (available only of 423 models)
-Z11	1 to 6V output (available only of 423 models)
-Z12	0.5 to 4.5V output (available only on 423 models)
-Z16	0.2 to 10V output (available only on 426 models)
-WXXX	Additional length of free leads (in inches) (H3/H5 connection)
-ZXXY	Special pressure ranges (see note 3)
-Z1	Cleaned for oxygen service (\$150 minimum per order)

#### **Process Connection**

Blank	1/4-18 NPT male (standard)
-P1	7/16-20 UNF-2B female
-P3	7/16-20 UNF-2A male (JIC 37°)

Blank Gauge pressure Absolute pressure range (<300psi)

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

<sup>&</sup>lt;sup>2</sup> Mating connector: Hirschman # ELWIKA 4012 PG7 or equivalent (not included). Order number: 239236
<sup>3</sup> Add suffix ZXXY for special pressure ranges. XX = significant digits. Y = number of trailing zeros. Example: for 230psi callibration, add Z231

Available in absolute ranges

<sup>&</sup>lt;sup>5</sup> Built-in surge protector <sup>6</sup> Available with connector options H3 and T4 only