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

Applications

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

General Specifications*

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Accuracy (LH & R):	±0.25% BSL	
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: 423: 426:	Excitation voltage: 9 to 30 VDC Excitation voltage: 14 to 30 VDC	
425:	Excitation voltage: 12 to 32 VDC	
Supply Current:	15 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 ± 0.8% Zero output: 0.5 VDC ± 0.4%	
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 ± 1% Zero output: 4 mA ± 2%	
Wetted Parts:	17-4 PH & 300 series stainless steel	
Enclosure:	NEMA 4, 300 series stainless steel	

^{*} See product configurator for additional options.

Wiring Code

423, 425 & 426			
T5/H5/T4/H4	T2	Н3	
1	Α	Red	+ Excitation
3	В	Black	+ Output
2	С	Green	Common
4	D	White	Case Ground
-	-	Bare	Shield

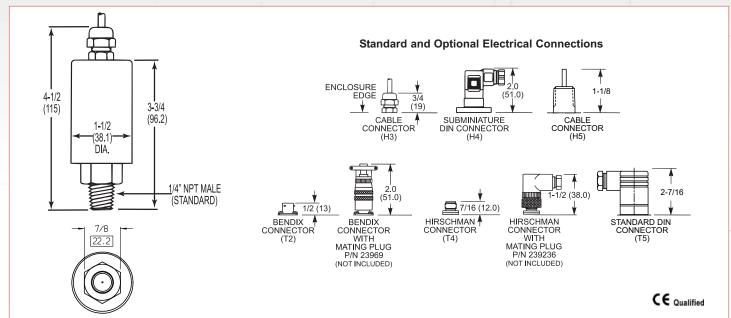


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Pressure Connection:	1/4"-18 NPT male (STD)
Response Time:	1 kHz (typ)
Electrical Connection:	3 conductor for voltage series and 2 conductor for current series, 24 awg, PVC jacketed, shielded cable, 3 ft. (1 m) long with integral strain relief and 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 (±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 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 drawing for details.
Weight: 423 & 426: 425:	7.4 oz. (221 grams) to 1000 psi 9.9 oz. (281 grams) 2,000 psi and higher 7.4 oz. (210 grams) to 1000 psi
Warranty:	9.4 oz. (266 grams) 2,000 psi and higher 3 year warranty



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Technical Drawings



Product Configurator

Base M	odel	
423	0.5 - 5.5 VDC analog	output
425	4 - 20 mA analog out	put

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 ¹	Bendix connector (PT02A-8-4P) - 4 pin
T4 ²	M12 Hirschman connector (ELST 412 PG9)
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

425

H3

0 - 29.9" of Hg

-19

Example

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

Options

-N4X	Nema 4X enclosure (H3 Option only)
-E ⁶	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	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)

Process Connection

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

Blank Gauge pressure

-A Absolute pressure range (<300psi)

¹ Mating connector: Bendix # PT06E-8-4S or equivalent (not included). Order number: 23969 ² Mating connector: Hirschman # ELWIKA 4021 PG7 or equivalent (not included). Order number: 239236

³ 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
 Built-in surge protector

⁶ Available with connector options H3 and T4 only.