# General Industrial Transducer (Amplified) Series

## 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):	±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					
<b>Input:</b> 423:	Excitation voltage: 11 to 30 VDC					
426:	itation 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%					

\* See product configurator for additional options.

### Wiring Code

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

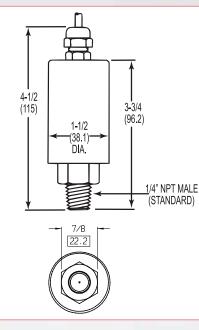


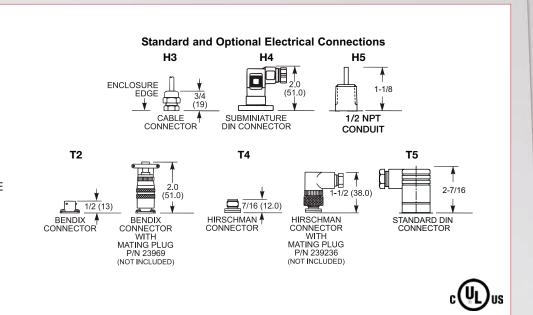
	Wetted Parts:	17-4 PH (fitting) & 300 stainless steel (sensor)					
	Enclosure:	NEMA 4, 300 series stainless steel 1/4"-18 NPT male (STD) 2 kHz 3 conductor for voltage series and 2 conductor for current series, 24 awg, PVC jacketed, shielded cable, 3 ft. (1 m) long with integral strain relief and case ground.					
	Pressure Connection:						
	Response Time:						
	Electrical Connection:						
	Temperature Ranges: Operating:	-40° to 185°F (-40° to 85°C)					
	Compensated:	30° to 160°F (-1° to 71°C)					
1	Storage:	-40° to 185°F (-40° to 85°C)					
	<b>Temperature Shift:</b> Zero & Span:	± 0.0125% per °F over compensated range, 75°F reference 15 g's, 10-2000 Hz, MIL-STD 202					
	Vibration:						
	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					



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

### **Technical Drawings**





rodu	ct Configurator	Example	425	НЗ	-19		-P1		
ase M	odel ————							 Optior	าร
423	0.5 - 5.5 VDC analog output		Pressu	Ire Rang	e			-N4X7	Nema 4X enclosure (H3 Option or \$200 minimum per order
425	4 - 20 mA analog output		-23 0 - 29.9" of Hg (Vacuum)			cuum)		-E <sup>6</sup>	External zero span adjustment
426	1 - 11 VDC analog output		-25	0 - 5 psi	(0 - 0.35 b	ar)		-Z15	Calibrated in 'bar' unit
lectric	al Connection ————		-014	0 - 15 ps	i (0 - 1 bai	)		-Z10	1 to 5V output (available only on models)
H3	Shielded & jacketed #22 AWB cable (1 meter) (standard)		-21 <sup>4</sup>	-	ii (0 - 2 bai ii (0 - 3.5 b			-Z11	1 to 6V output (available only on models)
H4	Subminature DIN connector (43650 type) - mating connector included		-224	-	i (0 - 4 bai	,		-Z12	0.5 to 4.5V output (available only 423 models)
H5	Shielded & jacketed cable with 1/2"		-04 <sup>4</sup> 0 - 100 psi (0 - 6.9 bar) -05 <sup>4</sup> 0 - 150 psi (0 - 10.3 bar)					-Z16 <sup>7</sup>	0.2 to 10V output (available only 426 models) Not UL approved
T2 <sup>1</sup>	Bendix connector (PT02A-8-4P) - 4 pin		-064	6 <sup>4</sup> 0 - 200 psi (0 - 13.8 bar)				-wxxx	Additional length of free leads (in inches) (H3/H5 connection)
Т3	Bendix connector (PT02E-10-6P)-6 pin		-074	0 - 300 p	osi (0 - 20.	7 bar)		-ZXXY <sup>3</sup>	
T4 <sup>2</sup>	M12 Hirschman connector (ELST 4012		-08	0 - 500 p	osi (0 - 34.	5 bar)		-Z/XT	Cleaned for oxygen service
14	PG7)		-19	0 - 600 p	osi (0 -41 b	ar)		-21 -U <sup>8</sup>	UL & cUL approved
T5	Standard DIN connector (43650) - mating connector included		-10	0 - 1,000	psi (0 - 69	9 bar)		-0	OL & COL approved
			-11	0 - 1,500	psi (0 - 10	04 bar)		Proces	s Connection
cces	sories		<b>-12</b> ⁵	0 - 2,000	psi (0 - 1:	38 bar)		Blank	1/4-18 NPT male (standard)
			-13⁵	0 - 3,000	psi (0 - 20	07 bar)		-P1	7/16-20 UNF-2B female
Order #	Description		-14 <sup>5</sup>	0 - 4,000	psi (0 - 2	76 bar)		-P3	7/16-20 UNF-2A male (JIC 3
23969	Bendix mating connector (T2 electrical option)		<b>-15</b> ⁵	0 - 5,000	psi (0 - 34	45 bar)		-P4	1/2" NPT male
	Hirschman mating connector		-165	0 - 6,000	psi (0 - 4	14 bar)		-P5	1/2" NPT female
239236	(T4 electrical option)		-175	0 - 7,500	psi (0 - 5 <sup>-</sup>	17 bar)		-P6	1/4" NPT female
208360	Pressure snubber (1/4-18 NPT female/male	e)	<b>-18</b> ⁵	0 - 10,00	0 psi (0 - (	689 bar)		-P9	G1/4 male (Gasket Seal)

<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

<sup>4</sup> Available in absolute ranges <sup>5</sup> Built-in surge protector

 <sup>6</sup> Available with connector options H3 and T4 only
<sup>7</sup> Not UL approved
<sup>8</sup> Ambient: 60° C - 420, 422; 80°C - 423, 425, 426 7 Not UL approved

Barksdale

Absolute pressure range (<300psi)

-A

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