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*



±0.25% BSL (±0.5% for vacuum only [-23])	Wetted Parts:
±0.5% FSO of calibration curve	Enclosure:
100 million cycles	Pressure Con
2 times rated pressure or 13,000 psi max. (884 bar), whichever is less	Response Tin Electrical
Excitation voltage: 9 to 30 VDC	Connection:
Excitation voltage: 14 to 30 VDC Excitation voltage: 12 to 32 VDC	Temperature Operating:
16 mA maximum (no load)	Compensated
2K ohms (voltage series only)	Chavener
Output: 0.5 to 5.5 VDC Full scale output: 5.0 VDC ± 1% Zero output: 0.5 VDC ± 2%	Storage: Temperature Zero & Span:
Output: 1 to 11 VDC Full scale output: 10 VDC ± 1%	Vibration:
Zero output: 1.0 VDC ± 2% Output: 4 to 20 mA Full scale output: 16 mA ± 1% Zero output: 4 mA ± 2% Span: 16mA	Shock: Built-in Electr Protection:
	$\pm 0.5\% FSO of calibration curve$ 100 million cycles 2 times rated pressure or 13,000 psi max. (884 bar), whichever is less Excitation voltage: 9 to 30 VDC Excitation voltage: 14 to 30 VDC Excitation voltage: 12 to 32 VDC 16 mA maximum (no load) 2K ohms (voltage series only) Output: 0.5 to 5.5 VDC Full scale output: 5.0 VDC ± 1% Zero output: 0.5 VDC ± 2% Output: 1 to 11 VDC Full scale output: 10 VDC ± 1% Zero output: 1.0 VDC ± 2% Output: 4 to 20 mA Full scale output: 16 mA ± 1% Zero output: 4 mA ± 2%

See product configurator for additional options.

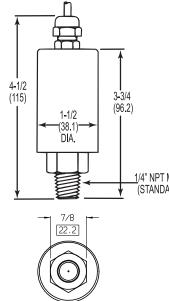
Wiring Code

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) & 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.				
	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 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.				
	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



Product Configurator

Electrical Connection -

0.5 - 5.5 VDC analog output

4 - 20 mA analog output

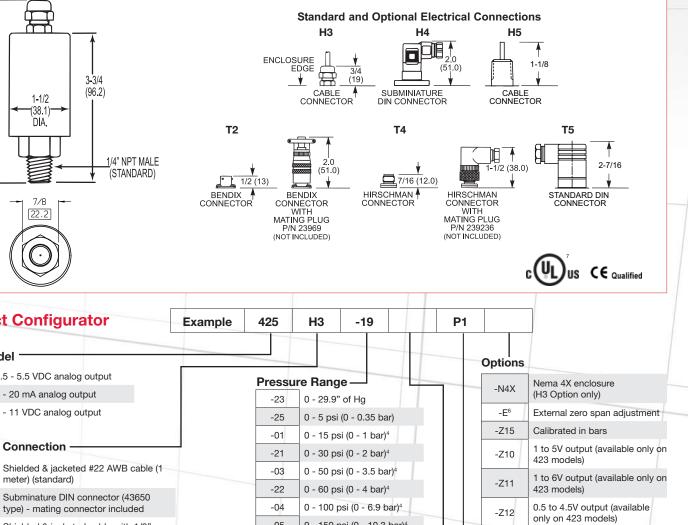
1 - 11 VDC analog output

Base Model

423

425

426



H3 Offeder & Jackard (1 and ard) H4 Subminature DIN connector (43650 type) - mating connector included H5 Shielded & jacketed cable with 1/2" male conduit T21 Bendix connector (PT02A-8-4P) - 4 pin T42 M12 Hirschman connector (ELST 4012 PG7) T5 Standard DIN connector (43650) - mating connector included T5 Standard DIN connector (43650) - mating connector included Order # Description 23969 Bendix mating connector Gettrical option) -15 0 - 500 psi (0 - 33.5 bar) ⁴ -06 0 - 200 psi (0 - 10.3 bar) ⁴ -216 0.2 to 10V output (available only on 423 models) W12 Hirschman connector (ELST 4012 PG7) -06 0 - 200 psi (0 - 12.8 bar) ⁴ -07 0 - 300 psi (0 - 20.7 bar) ⁴ -07 0 - 300 psi (0 - 20.7 bar) ⁴ -08 0 - 500 psi (0 - 34.5 bar) -216 0.2 to 10V output (available only on 428 models) -11 0 - 1,000 psi (0 - 69 bar) -10 0 - 1,000 psi (0 - 69 bar) -221 Othor with available only on 428 models) -12 0 - 2,000 psi (0 - 138 bar) ⁶ -11 0 - 1,000 psi (0 - 276 bar) ⁵ -21 Cleaned for oxygen service (\$150 minimum per order) -21		Shielded & jacketed #22 AWB cable (1 meter) (standard)			1 1			420 (11000013)	
H4 Subminature DIN connector (43650 type) - mating connector included H5 Shielded & jacketed cable with 1/2" male conduit -04 0 - 100 psi (0 - 6.9 bar) ⁴ T2 ¹ Bendix connector (PT02A-8-4P) - 4 pin -06 0 - 200 psi (0 - 12.8 bar) ⁴ T4 ² PG7) 0 - 300 psi (0 - 20.7 bar) ⁴ PG7) 5 standard DIN connector (ELST 4012 PG7) -09 0 - 600 psi (0 - 34.5 bar) T5 Standard DIN connector (43650) - mating connector included -11 0 - 1,000 psi (0 - 41 bar) -10 0 - 1,000 psi (0 - 104 bar) -212 0.5 to 4.5V output (available only on 426 models) Acccessories -07 0 - 300 psi (0 - 20.7 bar) ⁴ -WXXX Additional length of free leads (in inches) (H3/H5 connection) 23969 Bendix mating connector (T2 electrical option) -11 0 - 1,000 psi (0 - 138 bar) ⁵ -21 Cleaned for oxygen service (\$150 minimum per order) 239236 Hirschman mating connector (T4 electrical option) -13 0 - 3,000 psi (0 - 207 bar) ⁶ -14 0 - 4,000 psi (0 - 345 bar) ⁵ -16 0 - 6,000 psi (0 - 414 bar) ⁵ -P1 7/16-20 UNF-2B female 239236 Hirschman mating connector (T4 electrical option) -17 0 - 7,500 psi (0 - 517 bar) ⁵ -P3<	H3		-03	0 - 50 psi (0 - 3.5 bar) ⁴		-	Z11		
H4 type) - mating connector included -04 0 - 100 psi (0 - 6.9 bar) ⁴ -Z12 0.5 to 4.5V output (available only on 423 models) H5 Shielded & jacketed cable with 1/2" male conduit -06 0 - 200 psi (0 - 10.3 bar) ⁴ -Z12 0.5 to 4.5V output (available only on 423 models) T2 ¹ Bendix connector (PT02A-8-4P) - 4 pin -06 0 - 200 psi (0 - 20.7 bar) ⁴ -Z16 0.2 to 10V output (available only on 426 models) T4 ² M12 Hirschman connector (ELST 4012 PG7) -07 0 - 300 psi (0 - 20.7 bar) ⁴ -WXXX Additional length of free leads (in inches) (H3/H5 connection) T5 Standard DIN connector (43650) - mating connector included -10 0 - 1,000 psi (0 - 69 bar) -Z11 Cleaned for oxygen service (st 50 minimum per order) -10 0 - 1,000 psi (0 - 276 bar) ⁶ -11 0 - 3,000 psi (0 - 207 bar) ⁶ -Z11 Cleaned for oxygen service (st 50 minimum per order) 23969 Bendix mating connector (T2 electrical option) -15 0 - 5,000 psi (0 - 345 bar) ⁶ -U UL & cUL approved ⁷ 239236 Hirschman mating connector (T4 electrical option) -15 0 - 6,000 psi (0 - 345 bar) ⁶ -P1 7/16-20 UNF-2B female 208360 Pressure snubber (1/4-18 NPT female/male) -17		Subminature DIN connector (43650	-22	0 - 60 psi (0 - 4 bar)*				423 models)	
H5 Shielded & jacketed cable with 1/2" male conduit -05 0 - 150 psi (0 - 10.3 bar) ⁴ T2 ¹ Bendix connector (PT02A-8-4P) - 4 pin -06 0 - 200 psi (0 - 12.8 bar) ⁴ T4 ² M12 Hirschman connector (ELST 4012 PG7) -08 0 - 500 psi (0 - 20.7 bar) ⁴ T5 Standard DIN connector (43650) - mating connector included -19 0 - 600 psi (0 - 34.5 bar) -10 0 - 1,500 psi (0 - 104 bar) -10 0 - 1,000 psi (0 - 69 bar) -11 0 - 1,500 psi (0 - 104 bar) -21 Cleaned for oxygen service (\$150 minimum per order) 23969 Bendix mating connector (T2 electrical option) -15 0 - 5,000 psi (0 - 345 bar) ⁵ 239236 Hirschman mating connector (T4 electrical option) -15 0 - 5,000 psi (0 - 414 bar) ⁵ 23969 Pressure snubber (1/4-18 NPT female/male) -16 0 - 6,000 psi (0 - 517 bar) ⁵	H4		-04	0 - 100 psi (0 - 6.9 bar)4		-	Z12		
male conduit -06 0 - 200 psi (0 - 12.8 bar) ⁴ T2 ¹ Bendix connector (PT02A-8-4P) - 4 pin -07 0 - 300 psi (0 - 20.7 bar) ⁴ T4 ² M12 Hirschman connector (ELST 4012 PG7) -08 0 - 500 psi (0 - 34.5 bar) T5 Standard DIN connector (43650) - mating connector included -19 0 - 600 psi (0 - 41 bar) -10 0 - 1,000 psi (0 - 104 bar) -11 0 - 1,500 psi (0 - 104 bar) -11 0 - 1,500 psi (0 - 138 bar) ⁶ -21 Cleaned for oxygen service (\$150 minimum per order) 23969 Bendix mating connector (T2 electrical option) -14 0 - 4,000 psi (0 - 207 bar) ⁵ 239236 Hirschman mating connector (T4 electrical option) -16 0 - 6,000 psi (0 - 414 bar) ⁶ 208360 Pressure snubber (1/4-18 NPT female/male) -17 0 - 7,500 psi (0 - 517 bar) ⁵	115	Shielded & jacketed cable with 1/2"			_		only on 423 models)		
T21Bendix connector (PT02A-8-4P) - 4 pin -07 $0 - 300 \text{ psi} (0 - 20.7 \text{ bar})^4$ $-WXXX$ Additional length of free leads (in inches) (H3/H5 connection))T42M12 Hirschman connector (ELST 4012 PG7) -08 $0 - 500 \text{ psi} (0 - 34.5 \text{ bar})$ -19 $0 - 600 \text{ psi} (0 - 41 \text{ bar})$ T5Standard DIN connector included -10 $0 - 1,000 \text{ psi} (0 - 69 \text{ bar})$ -11 $0 - 1,000 \text{ psi} (0 - 104 \text{ bar})$ Accessories -11 $0 - 1,500 \text{ psi} (0 - 138 \text{ bar})^5$ -12 $0 - 2,000 \text{ psi} (0 - 138 \text{ bar})^5$ Order #Description -13 $0 - 3,000 \text{ psi} (0 - 207 \text{ bar})^5$ -14 $0 - 4,000 \text{ psi} (0 - 276 \text{ bar})^5$ 23969Bendix mating connector (T2 electrical option)Hirschman mating connector (T4 electrical option) -16 $0 - 6,000 \text{ psi} (0 - 414 \text{ bar})^5$ 208360Pressure snubber (1/4-18 NPT female/male) -17 $0 - 7,500 \text{ psi} (0 - 517 \text{ bar})^5$ Blank $1/4-18 \text{ NPT male (standard)}$	HD	male conduit		0 - 200 psi (0 - 12.8 bar)4		-	Z16		
T42 M12 Hirschman connector (ELST 4012 PG7) -08 0 - 500 psi (0 - 34.5 bar) T5 Standard DIN connector (43650) - mating connector included -19 0 - 600 psi (0 - 41 bar) -10 0 - 1,000 psi (0 - 69 bar) -11 0 - 1,500 psi (0 - 104 bar) -11 0 - 1,500 psi (0 - 104 bar) -21 Cleaned for oxygen service (\$150 minimum per order) 23969 Bendix mating connector (T2 electrical option) -13 0 - 3,000 psi (0 - 276 bar) ⁵ 239236 Hirschman mating connector (T4 electrical option) -15 0 - 5,000 psi (0 - 414 bar) ⁵ 208360 Pressure snubber (1/4-18 NPT female/male) -17 0 - 7,500 psi (0 - 517 bar) ⁵	T2 ¹	Bendix connector (PT02A-8-4P) - 4 pin	-07	0 - 300 psi (0 - 20 7 bar)4			1	,	
14 ⁴ PG7) -08 0 - 500 psi (0 - 34.5 bar) T5 Standard DIN connector (43650) - mating connector included -19 0 - 600 psi (0 - 41 bar) -10 0 - 1,000 psi (0 - 69 bar) -11 0 - 1,500 psi (0 - 104 bar) -11 0 - 1,500 psi (0 - 104 bar) -21 Cleaned for oxygen service (\$150 minimum per order) 23969 Bendix mating connector (T2 electrical option) -14 0 - 4,000 psi (0 - 276 bar) ⁵ 239236 Hirschman mating connector (T4 electrical option) -16 0 - 6,000 psi (0 - 414 bar) ⁵ 208360 Pressure snubber (1/4-18 NPT female/male) -17 0 - 7,500 psi (0 - 517 bar) ⁵						-V	VXXX		
T5 Standard DIN connector (43650) - mating connector included -19 0 - 600 psi (0 - 41 bar) -2XXY Special pressure ranges (see note 3) Accessories -10 0 - 1,000 psi (0 - 69 bar) -21 Cleaned for oxygen service (\$150 minimum per order) 23969 Bendix mating connector (T2 electrical option) 0 - 3,000 psi (0 - 276 bar) ⁵ -14 0 - 4,000 psi (0 - 276 bar) ⁵ 239236 Hirschman mating connector (T4 electrical option) -15 0 - 5,000 psi (0 - 345 bar) ⁵ 208360 Pressure snubber (1/4-18 NPT female/male) -16 0 - 6,000 psi (0 - 517 bar) ⁵	T4 ²		-08	0 - 500 psi (0 - 34.5 bar)			1	(in inches) (H3/H5 connection)	
15 mating connector included -10 0 - 1,000 psi (0 - 69 bar) Accessories -11 0 - 1,500 psi (0 - 104 bar) -12 0 - 2,000 psi (0 - 138 bar) ⁵ -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		,	-19	0 - 600 psi (0 -41 bar)		-Z	ZXXY		
Accessories -11 0 - 1,500 psi (0 - 104 bar) 0rder # Description 23969 Bendix mating connector (T2 electrical option) 0 - 3,000 psi (0 - 207 bar) ⁵ 239236 Hirschman mating connector (T4 electrical option) -14 0 - 4,000 psi (0 - 276 bar) ⁵ 208360 Pressure snubber (1/4-18 NPT female/male) -16 0 - 6,000 psi (0 - 414 bar) ⁵	15			0 - 1,000 psi (0 - 69 bar)					
Accessories -11 0 - 1,500 psi (0 - 104 psi) Order # Description 23969 Bendix mating connector (T2 electrical option) -13 0 - 3,000 psi (0 - 207 bar) ⁵ 239236 Hirschman mating connector (T4 electrical option) -14 0 - 4,000 psi (0 - 276 bar) ⁵ 239236 Process Connection 208360 Pressure snubber (1/4-18 NPT female/male) -17 0 - 7,500 psi (0 - 517 bar) ⁵							-71	Cleaned for oxygen service	
Order # Description 23969 Bendix mating connector (T2 electrical option) -13 0 - 3,000 psi (0 - 276 bar) ⁵ 239236 Hirschman mating connector (T4 electrical option) -14 0 - 4,000 psi (0 - 276 bar) ⁵ 208360 Pressure snubber (1/4-18 NPT female/male) -16 0 - 6,000 psi (0 - 517 bar) ⁵ 208360 Pressure snubber (1/4-18 NPT female/male) -17 0 - 7,500 psi (0 - 517 bar) ⁵	Δοσορ		-12 0 - 2,000 psi (0 - 138 bar) ⁵	0 - 1,500 psi (0 - 104 bar)			<u></u>	(\$150 minimum per order)	
23969 Bendix mating connector (T2 electrical option) -13 0 - 3,000 psi (0 - 207 bal) Process Connection 239236 Hirschman mating connector (T4 electrical option) -14 0 - 4,000 psi (0 - 276 bar) ⁵ Blank 1/4-18 NPT male (standard) 208360 Pressure snubber (1/4-18 NPT female/male) -17 0 - 7,500 psi (0 - 517 bar) ⁵ -P3 7/16-20 UNF-2A male (JIC 37°)				0 - 2,000 psi (0 - 138 bar) ⁵			-U	UL & cUL approved ⁷	
23969 (T2 electrical option) 239236 Hirschman mating connector (T4 electrical option) 208360 Pressure snubber (1/4-18 NPT female/male)	Order #	Description	-13	0 - 3,000 psi (0 - 207 bar) ⁵					
(T2 electrical option) -15 0 - 5,000 psi (0 - 345 bar) ⁵ Blank 1/4-18 NPT male (standard) 239236 Hirschman mating connector (T4 electrical option) -16 0 - 6,000 psi (0 - 414 bar) ⁵ -P1 7/16-20 UNF-2B female 208360 Pressure snubber (1/4-18 NPT female/male) -17 0 - 7,500 psi (0 - 517 bar) ⁵ -P3 7/16-20 UNF-2A male (JIC 37°)	23969		-14	0 - 4,000 psi (0 - 276 bar)⁵		- Pro			
239236 Hirschman mating connector (T4 electrical option) -16 0 - 6,000 psi (0 - 414 bar) ⁵ -P1 7/16-20 UNF-2B female 208360 Pressure snubber (1/4-18 NPT female/male) -17 0 - 7,500 psi (0 - 517 bar) ⁵ -P3 7/16-20 UNF-2A male (JIC 37°)	20000		-15	0 - 5 000 psi (0 - 345 bar)⁵		Bla			
239230 (T4 electrical option) 208360 Pressure snubber (1/4-18 NPT female/male)						_P	1 7	7/16-20 LINE-2B female	
208360 Pressure snubber (1/4-18 NPT female/male) -17 0 - 7,500 psi (0 - 517 bar) ⁵ -P3 7/16-20 UNF-2A male (JIC 37°)	239236		-16	0 - 6,000 psi (0 - 414 bar) ⁵		-1	· /	/10-20 ONI -2D lemale	
	208360			0 - 7,500 psi (0 - 517 bar) ⁵		-P	3 7	7/16-20 UNF-2A male (JIC 37°)	
	200000		-18	0 - 10,000 psi (0 - 689 bar)⁵			_		

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

² 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 in absolute ranges Built-in surge protector

⁶ Available with connector options H3 and T4 only ⁷ Refer to sales drawing for more details Absolute pressure range (<300psi)

Blank

-A

Gauge pressure