General Industrial Transducer (Unamplified)

Series 420, 422

Features

- General purpose, industrial grade transducer
- Diffused silicon sensor for high accuracy
- and reliabilityRugged stainless steel construction
- Built-in pressure snubber for high pressure applications (2000 psi and above)
- Wide range of electrical connections available

Applications

- Oil pressure hydraulics
- Cranes
- Presses
- Gas metering
- HVAC
- Medical equipment



General Specifications*

Accuracy (LH & R):	±0.25% FSO at 75°F (24°C) typical	Pressure Connection:	1/4"-18 NPT male
Long Term Stability:	±0.5% FSO of calibration curve	Electrical	4 conductor, 22 awg, PVC jacketed,
Typical Life Cycle:	100 million cycles	Connection:	unshielded cable, 3 ft. (1 m) long with integral strain relief and case ground
Proof Pressure:	2 times rated pressure or 13,000 psi max. (896 bar), whichever is less	Temperature Ranges: Operating:	-40° to 185°F (-40° to 85°C)
Input:	Excitation voltage: 10 Volt, nominal 5 to 15 VDC (regulated)	Compensated: 30° to 160°F (-1 to 71°C)	
Input Resistance:	15,000 ohm (maximum)	Storage:	-40° to 185°F (-40° to 85°C)
Output: Model 420:	Full scale output: 30 mV ±1 mV 3 mV/V sensitivity Zero output: 0 mV ±2mV	Temperature Shift: Zero & Span:	±3.0% FSO (max.) over compensated range
		Vibration:	15 g's, 10-2000 Hz, MIL-STD 202
Model 422:	Full scale output: 100 mV ±1 mV 10 mV/V sensitivity	Shock:	50 g's, 11 ms, MIL-STD 202 Method 213, Cond. G.
Wetted Parts:	Zero output: 0 mV ±2mV 17-4 PH & 300 series stainless steel	Built-in Protection:	Built-in pressure snubber for 2K psi and greater
Enclosure:	NEMA 3, 304 stainless steel		
Response Time:	2 kHz	Weight: 4.6 oz. (130 grams) to 1000 psi 6.7 oz. (190 grams) 1000 psi and higher	
* See product configurator for additional options.		Warranty:	1 year warranty

Wiring Code

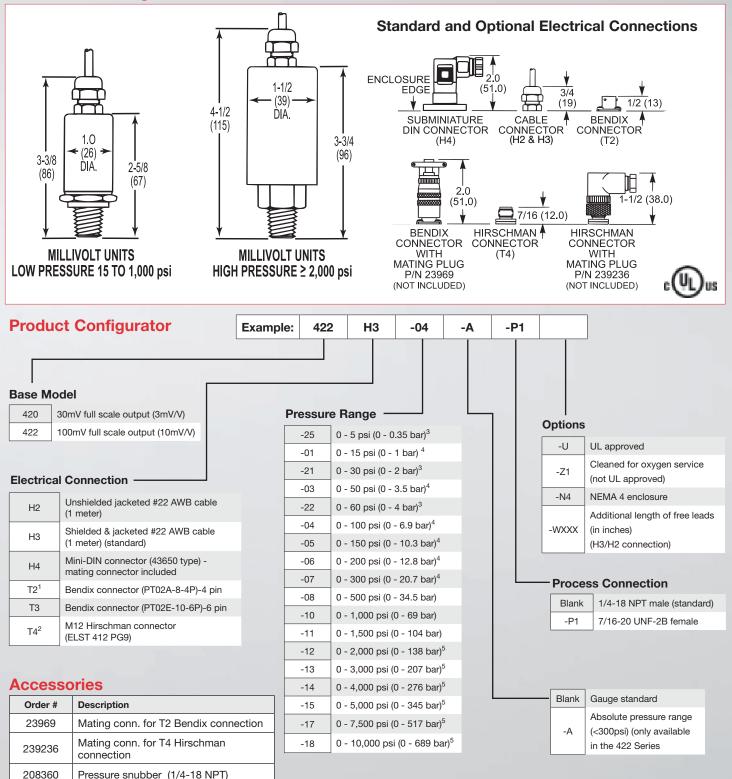
MILLIVOLT SERIES - 420 & 422						
DIN Conn. (H4)	Bendix Conn. (T2)	M12 Hirschman Conn. (T4)	Cable (H2/H3)	Signal		
1	A	1	Red	+ Excitation		
4	D	4	Black	- Excitation		
2	В	3	Green	+ Output		
3	С	2	White	- Output		
-	-	-	Bare	Shield		



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Technical Drawings



¹ Mating connector: Bendix # PT06E-8-4S or equivalent (not included)

² Mating connector: Hirschman # ELWIKA 4021 PG7 or equivalent (not included)

³ Available only on 422 Series; 75mV ± 1mV output at 75°F
⁴ Available in absolute range for 422 Series

⁵ Built-in snubber

Built-III Shubber

Barksdale

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