

Models 422/423

PRESSURE TRANSMITTER



FEATURES

- Small size – 7/8" diameter
- $\pm 0.08\%$ combined accuracy option
- 4-20 mA, 0-5 Vdc output, 0-10 Vdc optional
- Stainless steel construction

TYPICAL APPLICATIONS

- Automotive test
- Brake test
- Engine test
- Transmission test
- Leak detection

HIGH-PERFORMANCE

Models 422/423 are versatile high-performance test and control sensors that offer a fast response time, noise immunity, and are CE compliant. Viatran takes pride in offering excellent customer support combined with a technically superior product.

INSPIRED BY SMALL SPACES

Models 422/423 are small in size, but pack a high-performance punch. The electronics and silicon sensor design have a combined accuracy of better than $\pm 0.08\%$. Available standard outputs are 4-20 mA, 0-5 Vdc or 0-10 Vdc.

Viatran's ability to customize products provides extreme flexibility, allowing the 422/423 to easily fit into your existing system. Options include alternate pressure ports, electrical connectors, direct-coupled cable, shunt calibration and various electrical outputs.

EASILY ADAPTABLE

The 422/423 series is just one of the latest additions to Viatran's portfolio of pressure sensors. They are designed to fit a wide range of applications where accuracy, stability, and reliability are important. The standard 6-pin bayonet electrical connector is one of many standard features.

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PERFORMANCE

	Full Scale Pressure Range (FSPR)	0-3 thru 0-5000 PSI (0-0.2 to 0-345 bar) 0-15 PSIV (0-1.03 barV)*
	Zero balance	≤± 0.25% FSO
	Non-Linearity (Best Fit Straight Line)	≤±0.06% FSO standard, optional ±0.04%
	Hysteresis & Repeatability	≤±0.06% FSO standard
Full Scale Output	422	5 Vdc ≤± 0.25% FSO
	423	16 mA ≤±0.25% FSO
	Long Term Stability	≤±0.3% FSO per 6 months
	Compensated Temperature.....	32°F to 180°F (0°C to 82°C)
	Operating Temperature Range	-40°F to 185°F (-40°C to 85°C)
	Storage Temperature.....	-40°F to 250°F (-40°C to 121°C)
	Maximum Fluid Temperature	250°F (121°C)
	Combined Thermal Effect (zero & span)	≤±2% FSO per 100°F typical

ELECTRICAL

Supply Voltage	422	9 to 30 Vdc (12 to 30 Vdc for DM option)
	423	8 to 28 Vdc
	Power Supply Regulation.....	<±0.05% FSO per Volt
Output Signal	422	0-5 Vdc
	423	4-20 mA
	Circuit Protection	Short circuit and reverse polarity protected
	Voltage Spike Protection.....	Withstand 1000 volt spike per EN6100-4-5
	RFI/EMI Suppression	CE marked, EN 61326
	Insulation Resistance	<5nS conductance
	Response Time.....	<1.5 millisecond
	Electrical Connections	6-pin bayonet (standard)
	422.....	423
Pin A	+Power.....	+Power/Signal
Pin B	-Power.....	-Power/Signal
Pin C	+Signal.....	No connection
Pin D	-Signal.....	No connection
Pin E	AC ground (standard).....	AC ground (Standard)
Pin F	No connection	No connection
Connector Options	BP	Micro change (M12)
	BN	4-pin bayonet
	ZU	Cable gland

MECHANICAL CONNECTION

Pressure Connection.....	1/8" NPT female
Proof Pressure.....	3x range or 1,200 PSI (whichever is less) for 0-3 thru 0-500 PSI 3x range or 9,000 PSI (whichever is less) for 0-1,000 thru 5,000 PSI
Burst Pressure.....	5x range or 2,400 PSI (whichever is less) for 0-3 thru 0-500 PSI 5x range or 10,000 PSI (whichever is less) for 0-1,000 thru 0-5,000 PSI
Pressure Cavity Volume.....	1.5 mL
Mounting.....	May be supported by process piping

MATERIALS OF CONSTRUCTION

Wetted Parts	316L stainless steel
Housing	316 stainless steel
Weight	4 oz nominal
Identification.....	Laser etched onto body

* Modified specification for vacuum and compound ranges: Compensated Temperature Range: 32°F to 170°F (0°C to 77°C)

Information is accurate to the best of Viatran's knowledge.
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OPTIONS

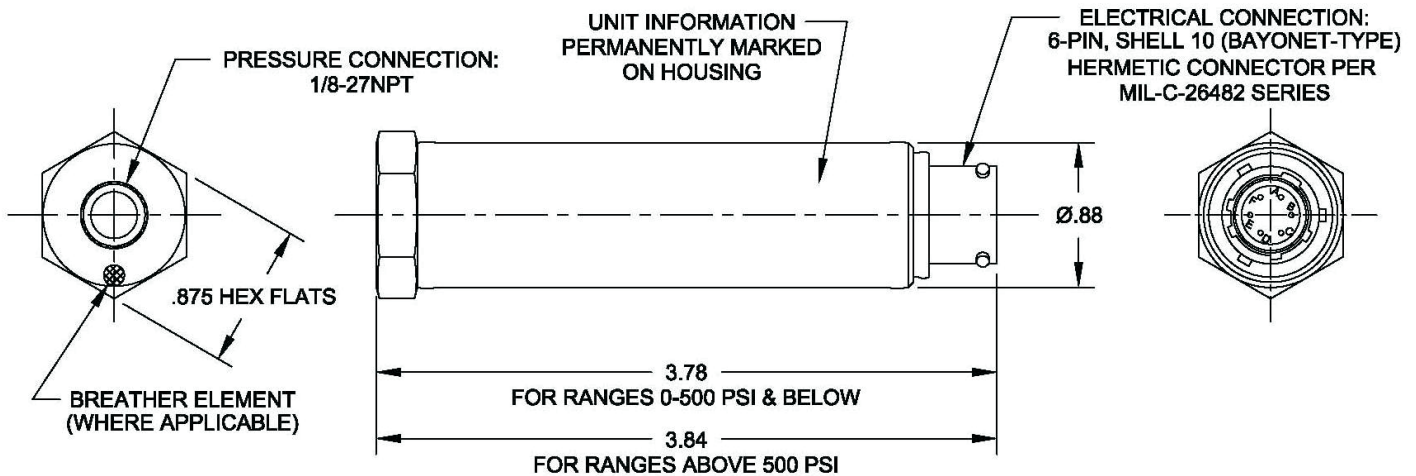
DA	Isolated internal shunt calibration (6-pin connector required)
DE	Internal shunt calibration (6-pin connector required)
DG	Improved temperature performance
DH	Special range
DM	Modified FSO>5Vdc; 422; (Requires 12 to 30 Vdc Supply Voltage)
DN	Improved linearity $\pm 0.04\%$ FSO (not available with TU option)
DQ	Cleaning for oxygen service
DX	Modified FSO<5Vdc; 422
EA	Special calibration
LV	Externally powered optically isolated shunt calibration (6-pin connector required)
NH	Customer specified marking
TU	Compound special ranging
VE	1/4 AN bulkhead mount
VF	1/4 tube Swagelok bulkhead
VG	M12 x 1.5 mm female
VH	M12 x 1.5 mm male
WQ	G 1/4 female
YA	MS33649-04
YC	MS33656-04
YH	1/8" NPTM
YI	1/8" NPTF (standard)
YJ	1/4" NPTF
YK	1/4" NPTM

Alternate Pressure Ports

ACCESSORIES

Mating cable assembly
Pressure port adapters

ALL DIMENSIONS ARE NOMINAL, IN INCHES
AND FOR REFERENCE PURPOSES ONLY



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