PRESSURE TRANSDUCER / TRANSMITTER

Models 422 / 423

FEATURES

- Small size – 7/8" diameter
- ±0.08% combined accuracy option
- 4-20 mA, 0-5 Vdc output, 1-10 Vdc optional
- Stainless steel construction

TYPICAL APPLICATIONS

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

AS9100D ISO 9001:2015

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 ±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.

OUR COMMITTMENT TO QUALITY

The "422 / 423" series design will perform and maintain on site durability in the most severe applications. To satisfy your unique application requirements, Viatran will also modify our standard products to meet your needs.

Viatran
PRESSURE & LEVEL SENSORS

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Models 422 / 423

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)

Models 422 / 423

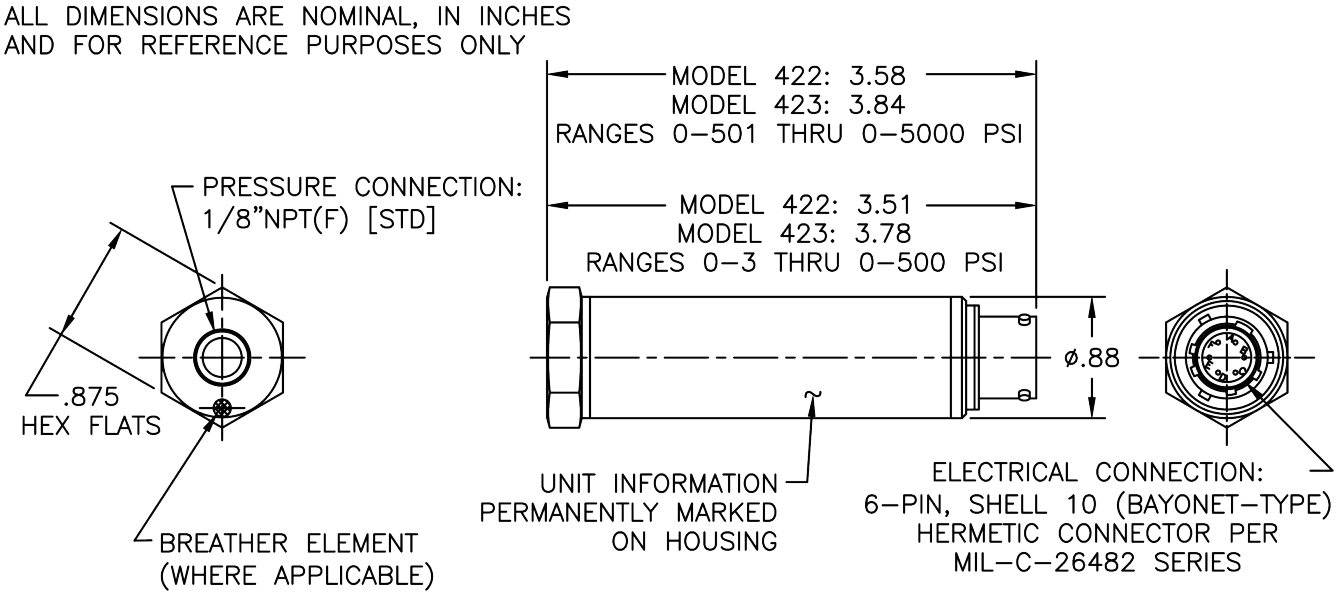
OPTIONS

DA	Isolated internal shunt calibration (6-pin connector required)
DC	Extended Compensated Temperature Range (Cold) -40°F to 170°F (-40°C to 77°C)
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 ±0.04% FSO (not available with TU option)
DQ	Cleaning for oxygen service
DX	Modified FSO<5Vdc; 422
EA	Special calibration
EH	Extended Compensated Temperature Range (Hot) +70°F to 185°F (21°C to 85°C)
FA	Russian Metrology Certificate
LV	Externally powered optically isolated shunt calibration (6-pin connector required)
NH	Customer specified marking
TU	Compound special ranging

Alternate Pressure Ports

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

ACCESSORIES

Mating cable assembly
Pressure port adapters

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