



## FEATURES

- Small size – 7/8" diameter
- $\pm 0.08\%$  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



## 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.

## OUR COMMITMENT 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's vision is to be your fastest, easiest and most trusted solution.

Call us today to explore the solutions we have to offer.

# 1.800.688.0030

Your local applications specialist:

# 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

## DIMENSIONAL DATA

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

