

## Models 276 / 376



### Designed for Harsh Conditions

To accommodate vigorous test applications, the X76 has a static line pressure rating and standard overpressure of 500 PSI (34 bar). With a response time as low as 6 milliseconds (depending on range), the "76" Series is one of the fastest differential units on the market.

### Capacitance Sensing

Viatran's proprietary technology provides an accuracy of better than  $\pm 0.15\%$  FSO. Wetted surfaces are manufactured from 316 stainless steel allowing for better corrosion resistance.



Viatran designed the "76" Series to be easily accessible in confined spaces. The X76 is supported by the process connection or by an adaptable L-shaped mounting bracket.

### FEATURES

- Extremely small size
- High overpressure protection
- External adjustments
- 316 stainless steel wetted surfaces
- Internal calibration circuit
- Fast response

### Typical Applications

- Automotive test stands
- Aerospace test stands
- Production test stands
- Leak testing
- Laboratory / Research
- Shipboard / Marine
- Energy management



### Quick Electrical Disconnect

A quick disconnect electrical connection allows for easy setup and removal. Top-mounted zero and span adjustments and an internal calibration circuit simplify field setup and provide a quick two-point calibration check.



### Exceeds Most Requirements

With over twenty different electrical connections and pressure ports, as well as optional improved temperature performance and modified outputs, the 276 / 376 exceeds the most demanding application requirements.

Viatran offers a full line of pressure transmitters for industrial test applications.

Our 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 276 / 376

## Performance

	Full Scale Pressure Range (FSPR) .....		0-5, 10, 20, 50, 100, 300, 750" WCD
	.....		0-15, 50, 100 PSID (0-1, 3.4, 6.8 bar)
Full Scale Output (FSO)	Linearity, Best Fit .....		≤0.15% FSO
	Hysteresis .....		≤0.10% FSO
	Repeatability.....		≤0.10% FSO
	276 .....		5 Vdc
	376 .....		16 mA
Response time	Resolution .....		Infinite
	Drift .....		≤±0.2% FSO per 6 months
	Pressure Connection Effect Zero Balance .....		≤±1% FSO
	Thermal Shift.....		≤±2% FSO per 100°F (37°C)
	Thermal Sensitivity Shift .....		≤±2% FSO per 100°F (37°C)
	Compensated Temperature Range .....		70°F to 170°F (21°C to 77°C)
	Operating Temperature Range .....		0°F to 170°F (-18°C to 121°C)
	5"WC to 50"WC		100"WC to 100 PSI
	0° F to +170° F		-40° F to +170° F
	Storage Temperature Range .....		0°F to 170°F (-18°C to 121°C)
	5"WC to 50"WC		100"WC to 100 PSI
	0° F to +170° F		-40° F to +170° F

## Electrical

Output Signal	Supply Voltage.....		10 to 45 Vdc
	Power Supply Regulation .....		≤±0.10% FSO change over supply voltage range
	276 .....		0 to 5 Vdc
	376 .....		4 to 20 mA
	Zero and Span Adjustment .....		±10% FSO min, ±20% FSO max
	Calibration Signal .....		80% FSO
	Calibration Signal Accuracy .....		Within ±0.2% FSO
	Circuit Protection .....		Reverse polarity protected
	Insulation Resistance .....		200 MegOhms
	Standard Electric Connection .....		Bendix PT02E-10-6P
	276	376	
	Pin A	+Power	+Power/Signal
	Pin B	-Power	-Power/Signal
	Pin C	+Signal	Calibrate
	Pin D	-Signal	Calibrate
	Pin E	Calibrate	Open
	Pin F	Calibrate	Open

## Mechanical

Pressure Connection.....	1/4" NPT female
Line Pressure .....	500 PSI (34 bar)
Proof Pressure.....	500 PSI (34 bar)
Burst Pressure.....	1000 PSI (68.9 bar)
Pressure Cavity Volume.....	Approximately 2 mL each side
Volume Displacement at FSPR.....	Approximately 0.1 mL
Fill Fluid .....	Approximately 1.5 mL
Mounting Position Effect.....	<1" WC, any direction
Mounting.....	May be supported by process or optional mounting bracket
Weight .....	2 lbs

## Materials of Construction

Wetted Materials .....	316 SS
Housing .....	Powder coated cast alloy
Identification.....	Laser etched onto body

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## Options

## Codes

## Performance Options

B()	Alternate connectors
Y()	Alternate ports
DG	Improved temperature performance
DH	Special range
DK	Special calibration shunt setting
DM	Modified output
EA	Special calibration run
NH	Customer specified identification
PW	1/8 DIN digital indicator

Note: Application of some available options may affect standard performance. Consult your Viatran Representative for details.

## Accessories

Digital indicator  
Mating electrical assembly  
Mating electrical connector  
Protective cover

