# **DIFFERENTIAL PRESSURE TRANSMITTER** Models 276 / 376



#### **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**

### 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 ±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.

## QUICK ELECTRICAL DISCONNECT

A guick disconnect electrical connection allows for easy setup and removal. Topmounted 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.

PERFORMANCE		Full Scale Pressure Range (FSPR)	
			0-15, 50, 100 PSID (0-1, 3.4, 6.8 bar)
		Linearity, Best Fit	≤0.15% FS0
		Hysteresis	≤0.10% FS0
		Repeatability	≤0.10% FS0
	Full Scale Output (FSO)	276	5 Vdc
		376	16 mA
		Resolution	Infinite
		Drift	≤±0.2% FSO per 6 months
		Pressure Connection Effect Zero Balance.	
	Response time	Thermal Shift	
		Thermal Sensitivity Shift	
		Compensated Temperature Range	
		Operating Temperature Range	
ELECTRICAL		Supply Voltage	10 to 45 Vdc
			≤±0.10% FSO change over supply voltage range
	Output Signal	276	0 113 0 0
	2 - 4	376	
		Zero and Span Adjustment	
		Calibration Signal	
		Calibration Signal Accuracy	
		Circuit Protection	
		Insulation Resistance	
		Standard Electric Connection	
		276	376
	Pin A	+Power	+Power/Signal
	Pin B	-Power	-Power/Signal
	Pin C	+Signal	Calibrate
	Pin D	-Signal	Calibrate
	Pin E	Calibrate	
	Pin F	Calibrate	Open Open
MECHANICAL		Pressure Connection	1/4" NDT famala
MECHANICAL			
		Line Pressure	
		Proof Pressure	,
		Burst Pressure	
		Pressure Cavity Volume	
		Volume Displacement at FSPR	• • •
		Fill Fluid	
		Mounting Position Effect	
		iviouriting	May be supported by process or optional mounting bracket
		Weight	2 lbs
MATERIALS OF CONSTRUC	TION		
MATERIALS OF CONSTRUC	TION	Weight	316 SS



OPTIONS	Codes	B()	Alternate connectors
		Y()	Alternate ports
	Performance Options	DG	Improved temperature performance
	·	DH	Special range
			Special calibration shunt setting
			Modified output
			Special calibration run
			Customer specified identification
			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

