

PRESSURE TRANSMITTER

## Models 247 / 347



CE

### **FEATURES**

- Economical
- Adjustable zero
- Resistant to pressure spikes
- Standard DIN connector
- Welded stainless steel construction

#### TYPICAL APPLICATIONS

- Hydraulic systems
- Injection molding
- Die casting
- Off road vehicles
- Compressors and pumps
- · High volume usage

#### **DESIGNED FOR HARSH CONDITIONS**

Viatran's Model X47 uses bonded foil sensing technology to offer a rugged but inexpensive solution that is small and fits into hard-to-access areas.

#### **INSPIRED BY DIVERSE NEEDS**

Hydraulic systems in test and control applications generate several "spikes" that overpressure many sensors. To combat spikes, Viatran employs a bonded foil strain gage on a hardened stainless steel diaphragm. This higher mass diaphragm withstands short-term overpressure conditions inherent in hydraulic applications. For measuring low pressure (3 to 200 PSI or 0.34 to 13.7 bar), Viatran uses a piezoresistive silicon sensor.

#### **EASILY ADAPTABLE**

The X47 series utilizes several features to fit the widest possible applications. The standard DIN 43650 connector is an industrial standard with excellent weather resistance.

The X47 can be fitted with a 6-pin bayonet or a direct coupled cable. The X47 has a 1/4" NPT or SAE female pressure port. A standard zero adjustment control makes setup simple.

For more information, contact Viatran.

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PERFORMANCE		Full Scale Pressure Range (FSPR)	0-3, 5, 10, 15, 30, 50, 75, 100, 200, PSIG, PSIA
			0-300, 400, 500, 750, 1K, 1.5K, 2K, 3K, 4K, 5K, 7.5, 10K, 15K,
			20K PSIG
			0-15 PSIV*
		New linearity (Doct Fit Ctraight Line)	.0.50% 500
		Non-linearity (Best Fit Straight Line)	
		Hysteresis	
	E !! 0 . ! . (F00)	Non-Repeatability	
	Full Scale Output (FSO)	247	
		347	, ,
		Resolution	
		Long Term Stability	
		Compensated Temperature Range	
		Maximum Operating Temperature	200°F (93°C)
		Minimum Operating Temperature	20°F (-28°C)
		Storage Temperature Limits	40°F to 250°F (-40°C to 121°C)
		Thermal Effect on Zero	≤±2% FS0 per 100°F Typical
		Thermal Effect on Span	≤±2% FS0 per 100°F Typical
		Zero Adjust	±5% of FSO (nominal)
ELECTRICAL		Supply Voltage	8 to 30 Vdc
LLLOTTIIOAL	Power Supply Regulation	247	
	Tower Supply Hegulation	347	
	Output Signal	247	•
	Output Signal		0 to 10 Vdc (requires 12 Vdc supply min)
		347	
		Load Impedance (347 only)	
		Load Impedance (247 only)	
		Circuit Protection	
			CE EMC compliant as per IEC EN 61326-1 and EN 61326-2-3
			Withstand 1000 volt spike per EN 61000-4-5
		Insulation Resistance	<5 nS conductance
	Input current	247	≤4 mA
		347	
		Response Time	<2 mSec for 10-90% change in output
		Electrical Connections	DIN Plug 43650
		247	347
	Pin 1	+Power	+Power/Signal
	Pin 2	+Signal	-Power/Signal
	Pin 3	Common	No connection
	Ground Spade	Case ground	Case ground
MECHANICAL		Pressure Connection	1/4" NPT female
MEDITATIONE		Proof Pressure	
			≥ 200 F31 3.5 ≥ 300 PSI 1.5 times FSPR or 25K PSI (1723 bar), whichever is less
			5 times FSPR or 30K PSI (2068 bar), whichever is less
		Pressure Cavity Volume	
MATERIAL C OF CONCT	DUCTION Wotted Darts	0.2 thru 200 DCI (0.1.0 thru 12.7 har)	216L ataiplaga ataal
MATERIALS OF CONSTRUCTION Wetted Parts		0-3 thru 200 PSI (0-1.0 thru 13.7 bar)	
		0-300 PSI (20.6 bar) and above	
			8 oz nominal silicon sensor, 10.5 oz nominal (strain gage)
		Identification	
		Mounting	NA I I I I I I I I I I I I I I I I I I I

<sup>\*</sup> For PSIV and Compound Range units, thermal effect on zero is  $\leq \pm 3.0\%$  per 100°F.



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Note: Vented gage units should only be installed in environments that allow the breather to remain dry and free from contamination. 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



