

PRESSURE TRANSMITTER

Models 247 / 347







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 PSIG or 0.2 to 13.8 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.





PERFORMANCE		0-15, 30, 50, 75, 100, 200, 300, 500 PSIA
		0-3, 5, 10, 15, 30, 50, 75, 100, 200, 300, 400, 500,1,000,1,500 PS
		2K, 3K, 4K, 5K, 7.5K, 10K, 15K, 20K PSIS
		0-5, 10 & 15 PSIV*
	Non-linearity (Best Fit Straight Line)	≤±0.50% FS0
	Hysteresis	
	Non-Repeatability	
Full Scale Output (FSO)	247	5 Vdc ±2% at 70°F (21°C)
	347	16 mA ±2% at 70°F (21°C)
	Resolution	Infinite
	Long Term Stability	≤±0.5% FSO per 6 months
	Compensated Temperature Range	
	Maximum Operating Temperature	
	Minimum Operating Temperature	
		40°F to 250°F (-40°C to 121°C)
	Thermal Effect on Zero	
	Thermal Effect on Span	
	Zero Adjust	•
FLECTRICAL	Cumply Voltogo	0 to 20 Vda
ELECTRICAL Page 2 Company Deposits For a substitute of the control of the contro	Supply Voltage	
Power Supply Regulation	247	
0. + + 0	347	·
Output Signal		
		0 to 10 Vdc (requires 12 Vdc supply min)
	347	
	Load Impedance (347 only)	
	Load Impedance (247 only)	
		Reverse polarity protected. CE marked
		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	
Input current		
	347	
		<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
	Proof Pressure	
		≥ 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	
MATERIALS OF CONSTRUCTION Wetted Parts	0-3 thru 200 PSI (0-1.0 thru 13.7 bar)	316L stainless steel
MATERIALS OF CONSTRUCTION Wetted Parts	0-300 PSI (20.6 bar) and above	
		8 oz nominal silicon sensor, 10.5 oz nominal (strain gage)
		Permanently marked on body of unit
		May be supported by process piping

^{*} For PSIV and Compound Range units, thermal effect on zero is ≤±3.0% per 100°F.





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OPTIONS	Codes	DHSpecial range
		DN
	DX	
	DM Modified Full Scale Output (>5 Vdc)	
	FA	
	NH Customer Specified Marking	

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





