

PRESSURE TRANSMITTER

Models 148 / 248 / 348



FEATURES

- Resistant to pressure spikes
- High accuracy (≤0.15%)
- Response time less than 1 mSec
- Welded stainless steel construction
- All welded NEMA 4X design
- 3X overpressure rating
- mV/V, 0-5 Vdc, 4 to 20 mA outputs

TYPICAL APPLICATIONS

- Die casting
- Stamping presses
- Rolling mills
- Injection molding
- Compressors and pumps
- · Off road vehicles
- Hydraulic usage
- Test stands

DESIGNED FOR HARSH CONDITIONS

All welded stainless steel construction combined with sensors that are hermetically sealed with no adjustment controls provide an airtight and watertight transducer preventing contamination from the application environment.

SPIKE RESISTANT

The "48" Series is made to withstand overloads and severe pressure spikes that can offset, weaken or destroy other sensors. The minimum 3X overpressure rating on the X48 means better than 0.15% accuracy while still offering a response time of less than a millisecond. It's designed to provide years of reliable, repeatable service.

FLEXIBLE TO MEET YOUR NEEDS

Standard pressure ranges are from 3 PSI thru 15K PSI (0.2 to 1034 bar) with outputs of mV/V, 0-5 Vdc and 4-20 mA. Additional outputs are also available. Viatran's available standard options and ability to modify products provide flexibility to meet your specified application needs.

Standard options include alternate pressure ports, electrical connectors, multiple pressure formats and various electrical outputs.

Viatran's rugged reputation is also standard.

For more information, contact Viatran.

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PERFORMANCE		0-15 thru 0-200 PSIA (0-1.0 thru 0-13.7 bar)
		0-3 thru 0-15K PSIG, PSIS (0-0.2 thru 0-1034 bar)
Accuracy (combined linearity bysteresis & repeatability)	0-200 PSI (0-13.7 bar)	
Accuracy (combined linearity, hysteresis & repeatability)		
	300-15K PSI (20-1034 bar) Zero Balance	
Full Cools Output (ECO)		
Full Scale Output (FSO)	148	
	248	
	348	
	Resolution	
	Long-Term Stability	
	Compensated Temperature Range	
	Operating Temperature	
	Storage Temperature Limits	65°F to 250°F (-54°C to 121°C)
	Temperature Effect on Zero	
	Temperature Effect on Span	≤±1% FSO per 100°F
ELECTRICAL Supply Voltage	148	•
	248	
	348	
		±0.05% FSO per volt over the supply voltage range (248/348 only)
Output Signal	148	
	248	
	348	
	Circuit Protection	
	Insulation Resistance	<5nS conductance
	Response Time	≤1 mSec for 10% to 90% FS0
	Electrical Connection	6 pin hermetic, bayonet-style, 303 SST weldmount connector
	148 248	348
Pin A	+Power +Power	+Power/Signal
Pin B	-Power -Power	-Power/Signal
Pin C	+Signal +Signal	No connection
Pin D	-Signal -Signal	No connection
Pin E	No connection No connection	No connection
Pin	No connection No connection	No connection
MECHANICAL	Pressure Connection	
		3 times FSPR or 20K PSI (1378 bar), whichever is less
	148 ≥ 300 PSI (20 bar)	1.5 times FSPR or 20K PSI (1378 bar), whichever is less
		5 times FSPR or 45K PSI (3102 bar), whichever is less
	Pressure Cavity Volume	3 mL without fittings
MATERIALS OF CONSTRUCTION Wetted Parts	0-3 thru 200 PSI (0-0.2 thru 13 bar)	316 stainless steel
	>200 PSI (>13 bar)	15-5PH stainless steel
	Housing	316/304 stainless steel
	Weight	10 oz
	Mounting	May be supported by process piping
	Identification	Laser etched onto body
ACCESSORIES	Digital indicators	
	Mounting bracket	
	Mounting electrical connector/assembly	
	Protective cover	
* For PSIV and Compound Range units:		
	Temperature Effect on Zero	
	Compensated Temperature Range	
	148 output signal	E my//



OPTIONS	Electrical Connection	BH	
		Bl	CF3102E-14S-2P
		BZ	Micro change
		ZU	Direct coupled cable
		ZY	1/2" (M) NPT conduit connection
	Alternate Pressure Ports	WG	G-1/4" (F)
		YC	
		YD	MS33656-06 (M)
		YG	MS16142-04 (F)
		YK	1/4" NPT (M)
		YU	MS16142-06 (F)
	Performance Options	DE	Internal calibration
		DG	Improved temperature compensation
		DH	Special ranging
		DM	Modified full scale output
		DQ	Cleaning for oxygen service
		EA	
		NH	
		NJ	•
			1/8 DIN digital indicator
			Zero and span adjustment
		Other options available upon request.	

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.

ALL DIMENSIONS ARE NOMINAL, IN INCHES AND FOR REFERENCE PURPOSES ONLY 3.33 ELECTRICAL CONNECTION: 6-PIN, SHELL 10 (BAYONET-TYPE) HERMETIC CONNECTOR PER MIL-C-26482 SERIES PRESSURE CONNECTION: 1/4-18NPT ACCESS SCREWS FOR ZERO AND SPAN ADJUSTMENTS (optional)

