

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.





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, hysteresis & repeatability				
Accuracy (combined infeatity, flysteresis & repeatability	300-15K PSI (20-1034 bar)			
	Zero Balance			
Full Scale Output (FSO)			mV/V output, range dependent	
Tuli Scale Output (1 30)	248			
	348			
	Resolution Long-Term Stability			
	Compensated Temperature Range			
	Operating Temperature			
	Storage Temperature Limits			
	Temperature Effect on Zero			
	Temperature Effect on S	span	≤±1% FS0 per 100°F	
ELECTRICAL Supply Voltage	148		· ·	
	248			
	348			
0 0			\(\leq \pm 0.05\% \) FSO per volt over the supply voltage range (248/348 only)	
Output Signal	148			
	248			
	348			
			Reverse polarity protected	
	Insulation Resistance			
			≤1 mSec for 10% to 90% FS0	
			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 F	No connection	No connection	No connection	
MECHANICAL	Pressure Connection			
			3 times FSPR or 20K PSI (1378 bar), whichever is less	
			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	,		
			15-5PH stainless steel	
			316/304 stainless steel	
	Weight			
	S .		May be supported by process piping	
	Identification		Laser etched onto body	
ACCESSORIES	Digital indicators			
	Mounting bracket			
	Mounting electrical con Protective cover	nector/assembly		
	Frotective cover			
* For PSIV and Compound Range units:	Temperature Effect on 2	7 _{oro}	-13 0% par 100°E	
			≤±3.0% per 100°F 32°F to 170°F (0°C to 77°C)	
		-	,	
	148 output signal		VIIII C	

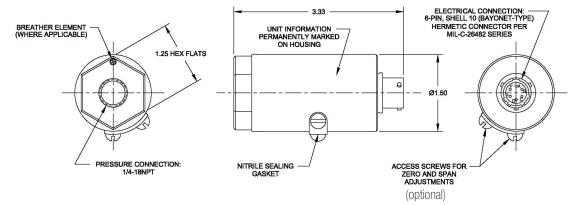




OPTIONS	Electrical Connection	BH	C21-10-6PN-20-0P1
			CF3102E-14S-2P
			Micro change
		ZU	Direct coupled cable
		ZY	1/2" (M) NPT conduit connection
	Alternate Pressure Ports		G-1/4" (F)
		YC	MS33656-04 (M)
			MS33656-06 (M)
		YG	MS16142-04 (F)
		YK	1/4" NPT (M)
		YU	MS16142-06 (F)
	Performance Options	DE	Internal calibration
		DG	Improved temperature compensation
		DH	Special ranging
		DM	Modified full scale output
		DQ	Cleaning for oxygen service
		EA	Special calibration run
		NH	Customer specified ID
		NJ	CE approved
		PW	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







Information is accurate to the best of Viatran's knowledge. We

