

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.



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PERFORMANCE	Full Scale Pressure Range	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)	0-200 PSI (0-13.7 bar)	
	300-15K PSI (20-1034 bar)	
	Zero Balance	
Full Scale Output (FSO)		mV/V output, range dependent
	248	
	348	
	Resolution	
	Long-Term Stability	≤0.5% FSO per 6 months
		ge70°F to 170°F (21°C to 76°C)
		40°F to 185°F (-40°C to 85°C)
		65°F to 250°F (-54°C to 121°C)
		≤±1% FS0 per 100°F
	Temperature Effect on Span	≤±1% FS0 per 100°F
ELECTRICAL Supply Voltage		10Vdc nominal, 15V max
	248	
	348	
0 1 10' 1		<u>s±0.05% FSO per volt over the supply voltage range (248/348 only)</u>
Output Signal	148	
	248	
	348	
		Reverse polarity protected
		≤1 mSec for 10% to 90% FS0 6 pin hermetic, bayonet-style, 303 SST weldmount connector
	148 248	348
Pin A	+Power +Pow	
Pin B	-Power -Power	
Pin C	+Signal +Sign	· · · · · · · · · · · · · · · · · · ·
Pin D	-Signal -Signi	
Pin E		nnection No connection
Pin F		nnection No connection
MECHANICAL	Pressure Connection	1/4" NPT female
		3 times FSPR or 20K PSI (1378 bar), whichever is less
		1.5 times FSPR or 20K PSI (1378 bar), whichever is less
		3 mL without fittings
MATERIALS OF CONSTRUCTION Wetted Parts	0-3 thru 200 PSI (0-0.2 thru 1	B bar)316 stainless steel
		15-5PH stainless steel
	,	316/304 stainless steel
	Weight	
		May be supported by process piping
		Laser etched onto body
ACCESSORIES	Digital indicators	
	Mounting bracket	
	Mounting electrical connector/a	ssembly
	Protective cover	
*E 201/ 10 12 "		
* For PSIV and Compound Range units:	Tomporatura Effect on 7000	2.00/ por 100°E
		s±3.0% per 100°F ge32°F to 170°F (0°C to 77°C)
	148 output signal	
	148 Output Signal	





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OPTIONS	Electrical Connection	BHC21-10-6PN-20-0P1
		BICF3102E-14S-2P
		BZMicro change
		ZUDirect coupled cable
		ZY1/2" (M) NPT conduit connection
	Alternate Pressure Ports	WG
		YCMS33656-04 (M)
		YDMS33656-06 (M)
		YGMS16142-04 (F)
		YK
		YUMS16142-06 (F)
	Performance Options	DEInternal calibration
	Torrormando optiono	DGImproved temperature compensation
		DHSpecial ranging
		DMModified full scale output
		DQ
		EASpecial calibration run
		NH
		NJ
		PW
		THZero 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







