

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.

Viatran

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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 bysters	ooia & rapactability)		or)	
Accuracy (combined linearity, hysteresis & repeatability)		0-200 PSI (0-13.7 bar) 300-15K PSI (20-1034 bar)		
Full S	cale Output (FSO)			mV/V output, range dependent
		Resolution		Infinite
		Long-Term Stability		≤0.5% FSO per 6 months
				70°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% FSO per 100°F
		lemperature Effect o	n Span	≤±1% FS0 per 100°F
ELECTRICAL	Supply Voltage			10Vdc nominal, 15V max
			ation Effect	9 to 30 vac ≤±0.05% FSO per volt over the supply voltage range (248/348 only)
	Output Signal			
	Output Signal			
				Reverse polarity protected
				<5nS conductance
		Response Time		≤1 mSec for 10% to 90% FS0
		Electrical Connection	l	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 Pin F	No connection No connection	No connection No connection	No connection No connection
	PIII F			
MECHANICAL				
				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 less3 mL without fittings
		Fressure Gavity volui	ne	3 IIIL Williout IItuliys
MATERIALS OF CONSTRUCTION	Wetted Parts	0-3 thru 200 PSI (0-		
		,		15-5PH stainless steel
				316/304 stainless steel
				May be supported by process piping
		identification		Laser etched onto body
ACCESSORIES		Digital indicators		
		Mounting bracket Mounting electrical of	onnector/secombly	
		Protective cover	onnector/assembly	
* For PSIV and Compo	ound Range units:	Tomporature Effect a	in Zoro	-12.0% par 100°E
				≤±3.0% per 100°F 32°F to 170°F (0°C to 77°C)
		i to output signal		O 1119/ ¥



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OPTIONS	Electrical Connection	BH
		BlCF3102E-14S-2P
		BZMicro change
		ZUDirect coupled cable
		ZY
	Alternate Pressure Ports	WG
		WG
		YDMS33656-06 (M)
		YGMS16142-04 (F) YK1/4" NPT (M)
		YK1/4" NPT (M)
		YUMS16142-06 (F)
	Performance Options	DEInternal calibration
		DGImproved temperature compensation
		DHSpecial ranging
		DMModified full scale output
		DQCleaning for oxygen service
		EASpecial calibration run
		NH
		NJCE approved
		PW1/8 DIN digital indicator
		THZero and span adjustment
		Other options available upon request.
		outer options aramable aport requests

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)

