

PRESSURE TRANSMITTER

Models 350 / 351



FEATURES

- Flush Diaphragm
- 316 Stainless Steel wetted parts
- Three Tri-clamp sizes
1.5", 2" 2.5"
- Clean in Place (CIP)
- No oil fill
- Bonded foil strain gage

TYPICAL APPLICATIONS

- Pharmaceutical
- Food Processing
- Beverage Processing
- Pasteurizers

CLEAN IN PLACE SYSTEMS

A flush diaphragm inhibits bacterial growth and facilitates Clean in Place (CIP) systems. The quick-disconnect Tri-clamp connections make these transmitters ideal for pharmaceutical, dairy and food processing applications where frequent cleaning is required.

ACCURATE PRESSURE MEASUREMENT

Viatran technology allows for accurate pressure measurement up to 1000 PSI. The transmitters also have no moving parts, isolation diaphragm, or oil fill to contaminate your process fluid.

The Model 351 has magnetically coupled external controls for precise adjustments of zero and span, without exposing the electronics to the environment. The span control can be adjusted for 5:1 ranging.

SHUNT CALIBRATION SYSTEM

The Model 351 is also equipped with a built-in shunt calibration signal for easy set up and flexibility (one transmitter can be used in numerous applications). The Model 350 provides the same degree of accuracy for reliability for less money.

3A STANDARDS AND FM APPROVED

Viatran's Models 350 and 351 have approval options available. Consult your Viatran Rep for details.



PERFORMANCE	Full Scale Pressure Range	350	0-100, 150, 200, 250, 300, 400, 500, 750, 1K PSIS, PSIA
		351	0-100, 400, 1K PSIS, PSIA
	Response Time (mechanical & electrical combined)	Non-linearity (Best Fit Straight Line)	≤0.4% FSO
		Hysteresis	≤0.25% FSO
		Repeatability	≤±0.1% FSO
		Full Scale Output (FSO)	16 mA at 70°F (21°C)
		Resolution	Infinite
		Long Term Stability	≤±0.25% FSO per 6 months
		Pressure Connection Effect Zero Balance	≤±0.1%
		350	2 Sec (electronically damped)
		351	≤50 mSec
		Temperature Effect on Zero	≤±2% FSO per 100°F (37°C)
		Temperature Effect on Span	≤±1% FSO per 100°F (37°C)
		Temperature Effect on Calibrated Signal	
		350	Not applicable
		351	≤±2% FSO per 100°F (37°C)
ELECTRICAL	Supply Voltage	Sensor Technology	Bonded foil strain gage
		350	10 to 36 Vdc
		351	9 to 40 Vdc
	Load Impedance	Power Supply Regulation	≤±0.04% FSO per Volt
		Output Signal	4 - 20 mA at 70°F (21°C)
		350	1300 Ohms max at 36 Vdc
		351	1925 Ohms max at 40 Vdc
	Zero Adjustment	Ripple	≤±0.08% FSO
		Zero Balance	4 mA ±5% FSO at 70°F (21°C)
	Range Calibration Signal	350	Not applicable
		351	5:1 turndown, externally 30 PSI min range
		350	Not applicable
		351	20% of ±1.0% of FSPR, externally switched. Exact signal to pressure correlation is provided with each unit
	Circuit Protection	Varistor protected across the input leads for surges above 38 V and currents to 250 Amps peak with a pulse width of 8-20 µSecs.	
		Reverse polarity protected	
MECHANICAL	Weight	Bridge Resistance	5000 Ohms nominal
		Insulation Resistance	≤100 MegOhms at 50 Vdc
		RFI/EMI Suppression	≤1% FSO output change at 30 V meter, 10-1000 mhz
		Electrical Connection	1/2" NPT male conduit, 3 wires, 18 AWG, 36"
		Red	+Power/Signal
		Black	-Power/Signal
		Green	Case Ground
		Pressure Connection	1 1/2", 2", 2 1/2" Tri-clamp
		Proof Pressure	1.5 times rated range
		Burst Pressure	≤3 times rated range or max orange of clamp and tubing, whichever is less
		350	16 oz
		351	30 oz
MATERIALS OF CONSTRUCTION	Enclosure Materials	15-5, 304, and 316 stainless steel	
		Wetted Materials	
	Identification	316 stainless steel	
		Laser etched onto body	
	Measured Fluids	Any gas or liquid compatible with 316 stainless steel	

CERTIFICATIONS (Consult Factory for Available Options)

Sanitary	Authorized to display the 3A symbol for Conformity to Sanitary standards for pressure and level devices # 74-02
Intrinsically Safe	FM Approved Intrinsically Safe for use in Class I,II and III DIV 1, Groups A thru G indoor/outdoor
Suitable for Use	FM Approved, suitable for use in Class I,II, and III, DIV. 1, Groups A thru G Hazardous Locations

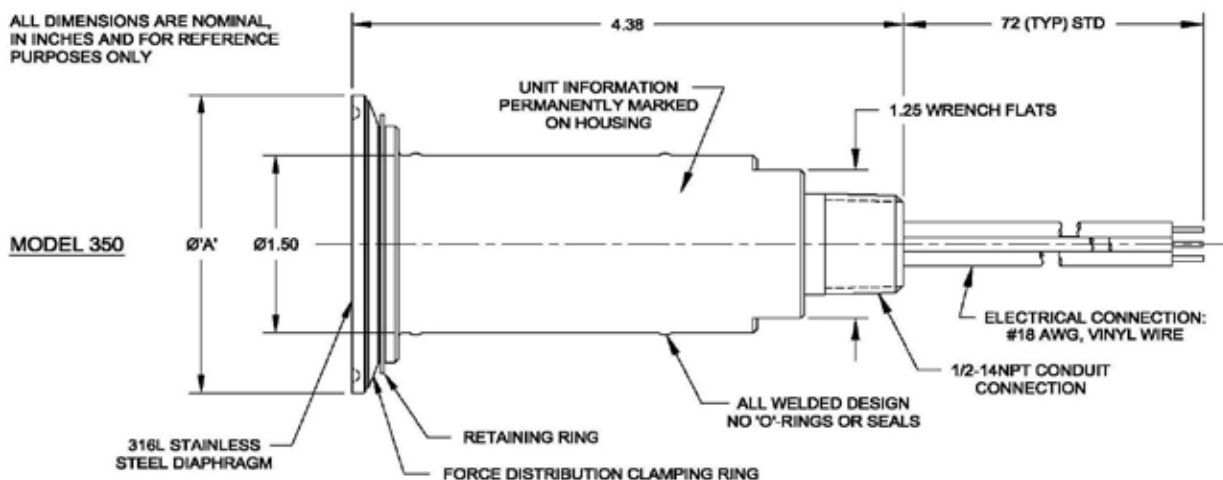
OPTIONS

BZ.....	Mini change connector
DG.....	Improved temperature compensation
DH.....	Special range (350 only)
EA.....	Special calibration
JJ.....	Direct mount indicator with Explosion Proof housing attached to transmitter
MD.....	FM Label
NH.....	Customer specified identification
NSR.....	Non-standard range (350 only)
PW.....	1/8 DIN digital indicator
ZP.....	CIA-C814-10-6P-10-0A1

Note: Application of some available options may affect standard performance. Consult your Viatran Representative for details.

ACCESSORIES

- Tri-clamp clamp
- Tri-clamp gasket
- Conduit connector



VIATRAN OPT ON CODE	TRI-CLAMP FITTING SIZE	Ø"A"
HA	1 1/2"	2.00
HB	2"	2.53
BC	2 1/2"	3.06

MODEL 351
SAME AS MODEL 350,
EXCEPT AS SHOWN

* MAGNETICALLY
COUPLED ADJUSTMENTS

