



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
- RoHS compliant

TYPICAL APPLICATIONS

- Pharmaceutical
- Food Processing
- Beverage Processing
- Pasteurizers

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 4:1 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.

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.

FM APPROVED

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

Viatran's vision is to be your fastest, easiest and most trusted solution.
Call us today to explore the solutions we have to offer.

1.800.688.0030



Your local applications specialist:



Models 350 / 351

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
		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%
	Response Time (mechanical & electrical combined)	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)
	Operating Temperature Range	0°F to 180°F (-17°C to 82°C)	
	Process Temperature Range	-65°F to 250°F (-53°C to 121°C)	
	Storage Temperature Limits.....	-65°F to 250°F (-53°C to 121°C)	
ELECTRICAL	Supply Voltage	Sensor Technology.....	Bonded foil strain gage
		350	9 to 30 Vdc
		351	12 to 30 Vdc
		Power Supply Regulation.....	≤±0.04% FSO per Volt
	Load Impedance	Output Signal	4 - 20 mA at 70°F (21°C)
		350	1050 Ohms at 30Vdc
		351	900 Ohms at 30 Vdc
		Ripple	≤±0.08% FSO
	Zero Adjustment	Zero Balance.....	4 mA ±5% FSO at 70°F (21°C)
		350	Not applicable
	Range Calibration Signal	351	4:1 turndown, externally 50 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
		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	
MECHANICAL	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	
	Weight	350	16 oz
	351	30 oz	
MATERIALS OF CONSTRUCTION	Enclosure Materials	15-5, 304, and 316 stainless steel	
	Wetted Materials	316 stainless steel	
	Identification.....	Laser etched onto body	
	Measured Fluids	Any gas or liquid compatible with 316 stainless steel	



Models 350 / 351

CERTIFICATIONS (Consult Factory for Available Options)

Intrinsically Safe FM Approved Intrinsically Safe for use in Class I,II and III DIV 1, Groups A thru G indoor/outdoor

OPTIONS

- BZ.....Mini change connector
- DGImproved temperature compensation
- DHSpecial range (350 only)
- EASpecial calibration
- NHCustomer specified identification
- NSRNon-standard range (351 only)
- PW1/8 DIN digital indicator
- TFFM Intrinsic Safety
- ZP.....CIA-C814-10-6P-10-0A1connector

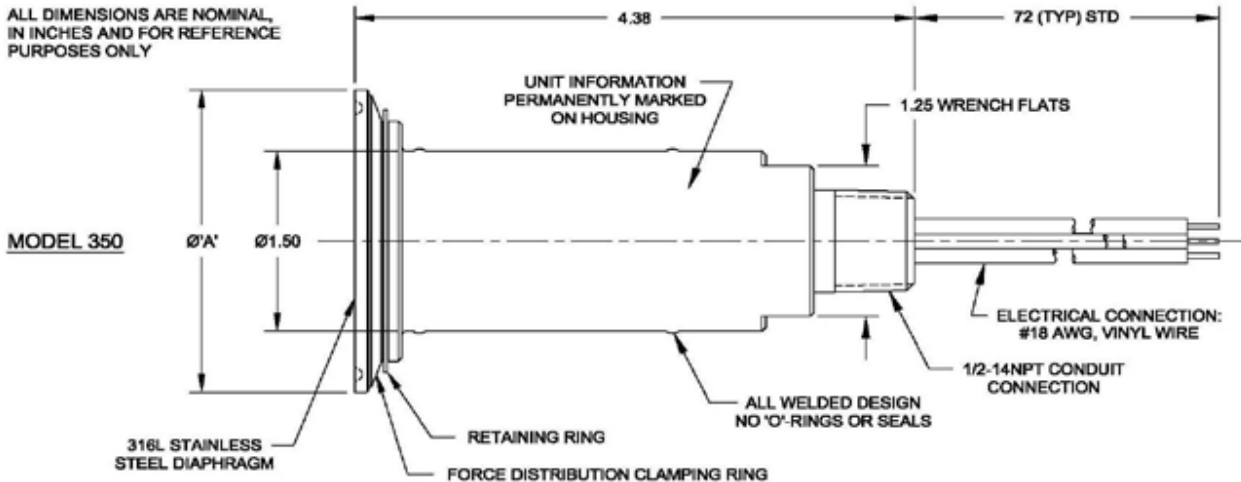
Note: Application of some available options may affect standard performance. Consult your Viatran Representative for details.

ACCESSORIES

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

DIMENSIONAL DATA

ALL DIMENSIONS ARE NOMINAL IN INCHES AND FOR REFERENCE PURPOSES ONLY



VIASTRAN 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

