



Viatran's Models 350 and 351 with Tri-clamp connections are all welded stainless steel, providing maximum protection against corrosion and high humidity.

FEATURES

- Flush Diaphragm
- 316L SS 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
- Dairy compressors
- Beverage processing
- Pasteurizers

Approval Options Available.
Contact Viatran for details.

SMART, CLEAN FREAK LEVEL TRANSMITTERS

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 and 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.



For product availability, or to order please call 1-800-688-0030, ext 506.

Grand Island, NY • 1-800-688-0030 • www.viatran.com • solutions@viatran.com

An ISO 9001:2000 Certified Company

SPECIFICATIONS

PERFORMANCE

Full Scale Pressure Range (FSPR)	
Model 350	0-100, 150, 200, 250, 300, 400, 500, 750, 1K PSIS, PSIA
Model 351	0-100, 400, 1K PSIS, PSIA
Non-linearity (best fit straight line)	≤0.4% BFSI, depending on range
Hysteresis	≤0.5% BFSI, depending on range
Repeatability	≤±0.1%
Full Scale Output (FSO)	16 mA at 70°F
Resolution	Infinite
Long Term Stability	≤±0.5% FSO per 6 months
Pressure Connection Effect On	
Zero Balance	≤±1.0% FSO
Response Time	
(mechanical and electrical combined)	
Model 350	2 Sec (Electronically Damped)
Model 351	≤50 mSec
Temperature Effect on Zero	≤±2.0% FSO per 100°F
Temperature Effect on Span	≤±1.0% FSO per 100°F
Temperature Effect on Calibration Signal	
Model 350	Not applicable
Model 351	≤±2.0% FSO per 100°F
Operating Temperature Range	0°F - +180°F
Process Temperature Range	-65°F to +250°F
Non-Operating Temperature Range	-65°F to +250°F

ELECTRICAL

Sensor Technology	Bonded Foil Strain Gage
Supply/Voltage	
Model 350	8.5 - 36VDC
Model 351	9 - 40VDC
Power Supply Regulation	≤±0.04% FSO per volt
Output Signal	4 to 20 mA at 70°F
Load Impedance	
Model 350	1300 Ohms maximum at 36 VDC
Model 351	1925 Ohms maximum at 40 VDC
Ripple	≤±0.08% FSO
Zero Balance	4mA ±5% FSO at 70°F
Zero Adjustment	
Model 350	Not applicable
Model 351	-50% FSPR (elevation) to 100% FSPR (suppression) Course and Fine Adjustments Standard
Span Balance	20mA ±5.0% FSO
Span Adjustment	
Model 350	Not applicable
Model 351	5:1 Turndown, Externally 30PSI min range
Range Calibration Signal	
Model 350	Not applicable
Model 351	20% ±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 38V and currents to 250amps peak with a pulse width of 8-20 usec. Reverse polarity protected.
Bridge Resistance	5,000 Ohms nominal
Insulation Resistance	≤1000 MegOhms at 50VDC
RFI/EMI Suppression	<1.0% FSO output change at 30V-meter, 10-1000 mhz
Electrical Connection	1/2" MPT Male Conduit, 3 wires, 18AWG, 36"
Red	+Power/Signal
Black	-Power/Signal
Green	Case Ground

MECHANICAL

PRESSURE CONNECTION	1 1/2", 2", 2 1/2" Tri-Clamp
PROOF PRESSURE	1.5X Rated Range
BURST PRESSURE	≤3 times rated range or maximum range of clamp and tubing, whichever is less
Weight	
Model 350	16 oz.
Model 351	30 oz.
ENCLOSURE MATERIALS	15-5,304, and 316 Stainless Steel
Wetted materials	316 Stainless Steel
Identification	Lases Etched on Body
Measured Fluids	Any Gas or Liquid compatible with 316 Stainless Steel

CERTIFICATIONS

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

Codes	Alternate Connector
BZ	Mini-Change Connector
	Performance Options
DG	Improved Temperature Compensation
DH	Special Range (Model 350 Only)
EA	Special Calibration
JJ	Direct Mount Indicator with Explosion Proof Housing attached to Transmitter
JS	Direct Mount Indicator
MD	FM Label
NH	Customer Specified Identification
NSR	Non-Standard Range (Model 351 Only)
PW	1/8 DIN Digital Indicator
ZP	CIA-C814-10-6P-10-0A1

ACCESSORIES

Tri-Clamp Clamp
Tri-Clamp Gasket
Conduit Connection Box

NOTE: APPLICATION OF SOME AVAILABLE OPTIONS MAY AFFECT STANDARD PERFORMANCE. CONSULT YOUR VIATRAN REPRESENTATIVE FOR DETAILS

DIMENSIONS, MODEL 350

ALL DIMENSIONS ARE NOMINAL, IN INCHES
* FOR REFERENCE PURPOSES ONLY

