

Sanitary Transmitter

MODEL 964



The model 964 is a HART product that you can rely on. With standard parts that are add-ons with most other transmitters, the Viatran Model 964 is a superior solution for your sanitary application. Stop paying the price for an inferior product. Take a look at the features of the Model 964.

FEATURES

- All welded SS construction
- HART protocol
- Standard Hastelloy-C diaphragm
- Ranges from 30" WC full scale
- $\leq \pm 0.5\%$ shift from 30°F to 185°F
- Zero & span adjust
- 1½- 2" Tri-clamp
- Standard Field Calibration
- <1 minute CIP/SIP recovery time

TYPICAL APPLICATIONS

- Sanitary tank level
- Beverage Processing
- Food Processing
- Dairy Processing
- Pharmaceutical Processing

SANITARY, SMART; A COMPLETE SOLUTION

At Viatran, we think you shouldn't have to pay extra for extras. Hastelloy should come standard. HART should be standard. With Viatran, they are.

STANDARD HASTELLOY DIAPHRAGM

Hastelloy eliminates the growth of bacteria and better facilitates Clean in Place (CIP) systems. It also recovers fast after a CIP process allowing you change products seamlessly.

THE HART PROTOCOL - STANDARD

Digital compensation provides a combined error band of less than 0.3% (includes temperature, hysteresis, repeatability and linearity). Internal push button controls provide wet calibration and ranging with our without a pressure source.

FORGET DRIFT, THIS IS DRIFT-FREE

The 964 brings increased accuracy to the industry -- standard. As for Drift? Viatran is confident enough to promise that your unit will not suffer daily drift problems. It offers higher proof pressure, increased temperature compensation and faster temperature recovery.

RETRO FIT THE MODEL 964

The Model 964 is a gage or absolute pressure transmitter that will retro-fit into any process. With a turndown rate of better than 10:1, the Model 964 is as versatile as it is rugged.

Visit www.viatran.com/cleanfreaks.htm for details on the Model 964.



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

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An ISO 9001:2000 Certified Company

SPECIFICATIONS

PERFORMANCE

Full Scale Pressure Range (FSPR)	0-3 thru 0-500 PSIG, 0-15 PSIA 0-15 thru 0-500 PSIA
Non-linearity (Best Fit Straight Line)	≤0.25% BSFL
Hysteresis	≤0.05%
Repeatability	≤±0.05%
Full Scale Output (FSO)	16 mA at 70°F
Long Term Stability	≤±0.25% FSO per 6 months
Pressure Connection Effect	
on Zero Balance	≤±0.5% FSO (no effect with zero adjust)
Span	≤±0.5% FSO (no effect with zero adjust)
Response Time	≤300 mSec to reach 63% FSO
Temperature Effect on Zero	≤±1.0% FSO per 100°F
Temperature Effect on Span	≤±1.0% FSO per 100°F
Operating Temperature Range	2°F to +185°F
Process Temperature Range	2°F to +200°F
Non-Operating Temperature Range	0°F to +200°F
Orientation effect (from horizontal)	≤1.0% FSO for 3 & 5 PSI ≤0.5% for 10 PSI and higher
Oil Fill	Neobee M20. Other oil fill available for varying temperatures.

ELECTRICAL

Supply/Voltage	11.5 to 30 VDC (16 to 30 VDC with display)
Power Supply Regulation Effect	<±0.04% FSO per Volt
Output Signal	4 to 20 mA
Span Adjustments	5:1 ranging
Load Impedance	230 Ohms to 1,100 for HART commitment
Ripple	<±0.08% FSO
Zero Balance	4 mA ±0.5 FSO at 70°F
Span Balance	20 mA ±0.5 FSO
Circuit Protection	Varistor protected across the input leads for surges above 79V and currents to 40 Amps peak with a pulse width of 8-20 μsec. Reverse polarity protected.

Bridge Resistance	5000 Ohms nominal
Insulation Resistance	≤5 NS Conductance
Electrical Connection	½" NPT(F) Internal terminal block
Terminal 4	+Power/Signal
Terminal 3	-Power/Signal
Terminal 2	n/c
Terminal 1	Case Ground

MECHANICAL

Pressure Connections	1½", 2"
Proof Pressure	3X rated range or maximum range of clamp and tubing, whichever is less.
Weight	40 oz.

CONSTRUCTION

MATERIALS

Enclosure Housing	304, & 316 Stainless Steel
Pressure Connection	Standard Hastelloy-C wetted parts
Unit Mounting	Supported by the pressure connection
Identification	Laser etched onto body type

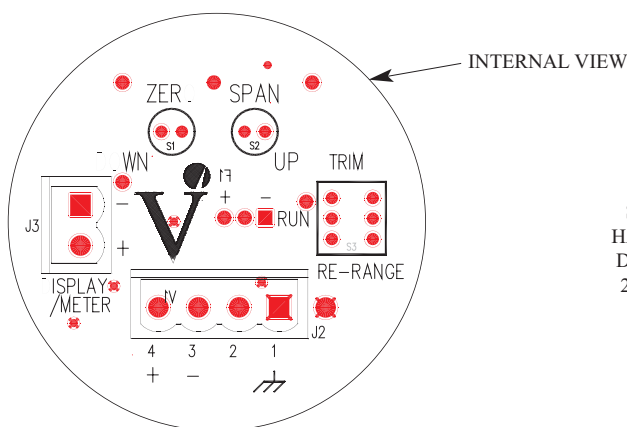
OPTIONS

Codes	Descriptions
BB	3 pin mini change
EA	Special Calibration Run
HA	1½" Tri-Clamp
HB	2" Tri-Clamp
NH	Customer specified identification
NSR	Non Standard Range
PW	1/8 DIN digital indicator (consult factory)
TQ30	3½" LED display - top viewable
TQ71	3½" LED display - side viewable
TS	Improved service finish to 15RA (316SS only)
ZU	Direct coupled cable

Consult factory for other tri-clamp sizes and delivery

ACCESSORIES

Mounting Bracket
ViBox (Tank profiling)
Loop Powered Digital Indicator



THE VIATRAN SANITARY FAMILY.



CALL 1-800-688-0030, EXT 506 FOR
DETAILS ABOUT THE ENTIRE FAMILY

