Pressure Transmitter

MODEL 960

The design of the Model 960 incorporates Viatran's Digital Compensation, providing one of the most accurate sanitary tank level transmitters on the market today.

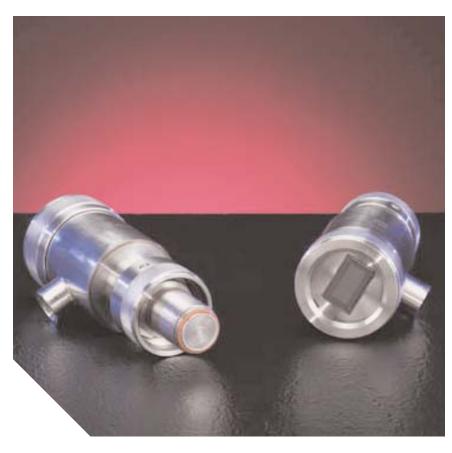
FEATURES

- <1 Minute CIP/SIP Recovery Time</p>
- Standard Flush Hastelloy wetted parts
- Digitally Compensated
- 10:1 Turndown
- HART Communication
- 30°F-185°F Compensation
- Easy wet calibration

TYPICAL APPLICATIONS

- Dairy
- Pharmaceutical
- Biotechnology
- Food / Beverage

Approval Options Available. Contact Viatran for details.



A SMART, CLEAN TANK LEVEL TRANSMITTER

THE HART PROTOCOL

Digital compensation provides a combined error band of less than $\pm 0.3\%$, (includes temperature, hysteresis, repeatability and linearity).

Rangeability, wet or dry calibration, and other digital communications are possible with the HART protocol. The 960 will still function as a standard 4-20 mA device, accurately measuring levels as low as 0-20" WC and as high as 0-900" WC.

IMPROVED CIP/SIP RECOVERY

An integral temperature sensor dramatically improves CIP/SIP recovery time. When temperatures exceed 200°F, standard sanitary transmitters need four to six minutes to recover. The Model 960 recovers in less than 60 seconds.

EASILY ADAPTS TO APPLICATIONS

The Model 960 offers an industry standard tank receiver design and can easily adapt to Anderson, King, Tank Mate or many other sanitary receivers on the market. This transmitter also comes in different lengths for single wall and varying insulated tank wall thickness.

CORROSION PROTECTION

Constructed of 316L Stainless Steel and a Hastelloy sensing diaphragm, the 960 provides excellent protection against corrosion even for the most extreme applications. With a flush diaphragm, it is specifically designed for CIP and SIP systems. It's also very clean, and comes with 3A approval making it suitable for use with milk or milk products.



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

SPECIFICATIONS

PERFORMANCE

Full Scale Pressure Range (FSPR) 0-100", 300", 750", 900" WC

Total Accuracy (includes Linearity 0.15% span at 75°F ± 50°F at 1:1 range

<BSFL> Hysterisis, Repeatability)

Thermal Effect over operating range: ≤±0.35% (30°F to 185°F)

Full Scale Output (FSO) 16 mA

Compensated Temperature 30°F to +185°F
Process Temperature Limits -40°F to +250°F
Ambient Temperature Limits 0°F to +185°F
Storage Temperature Limits -40°F to +250°F

ELECTRICAL

Sensor Technology Silicon Piezoresistive

with 1100 ohm load

With display add 4.5 VDC

Power Supply Regulation ≤±0.02% FSO per Volt

imposed on a 4-20 mA signal, available to any host computer system conforming to

HART protocol.

 Load Impedance
 230 Ohms to 1,100 Ohms

 Circuit Protection
 Reverse polarity protected.

 Insulation Resistance
 ≥ 200 MegOhms to case ground

 RFI/EMI Suppression
 Negligible effect to 500 Mhz at 5 watts

direct contact.

Terminal +Signal
Terminal -Signal
Terminal Case Ground

MECHANICAL

Pressure Connection Flush mount sensor mates with King Engineering

tank shell #1777 (other adaptors available)

Proof Pressure 3X rated range
Burst Pressure 5X rated range

Oil Fill Less than 0.66 ml of silicone oil

Measured Fluids Any gas or liquid compatible with Hastelloy and

Silicone O-Ring

Weight ... 4 lbs. nominal Enclosure Materials ... 316L Stainless Steel

MECHANICAL

Wetted Materials Hastelloy-C276 (Standard)
Identification Laser etched onto body
Enclosure Classification ... NEMA 4X, 5, 6, 12

Sanitary Standards Council Authorized to display the 3A symbol for conformity

to sanitary standards for sensor, sensor fittings and connections used on milk and milk product equip-

ment (#74-00)

Options Codes Descriptions

NSR Non Standard Ranging

HD Short length for single wall tanks
HE Extra long length for King receiver #1777-3

 GA
 Viton O-Ring

 GB
 Teflon O-Ring

 GE
 Buna-N O-Ring

ADAPTERS

 Codes
 Description

 HB
 2" Tri Clover

 HC
 2 1/2" Tri Clover

 HG
 3" Tri Clover

 HI
 2" NPT

 HJ
 Cherry-Burrell (standard shell)

 HK
 Tank Mate (long shell)

 HL
 2" Cherry-Burrell I-Line

 HM
 2 1/2" Cherry-Burrell I-Line

 HN
 Anderson (standard shell)

 HP
 Anderson (long shell)

 HS
 1/4" NPT

HT Cherry-Burrell (short shell)

HU 1/2" NPT HV Taylor

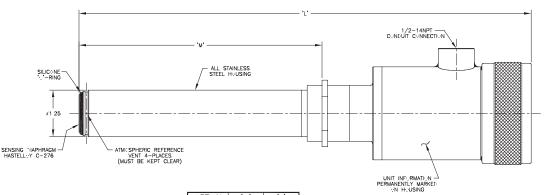
Application of some available options may affect standard performance. Consult your Viatran representative for details.

Accessories Tri-Clover Clamps

Digital Indicators
Electrical Connection Box
Spare Silicone O-Ring
Spare Teflon O-Ring
Tank Gage Receiver
Receiver Nut
Spanner Wrench

THE VIATRAN SANITARY FAMILY.





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AA (ST-)	6 53	12.13
HD.	2.13	7.73
HE	7	14.3

