Liquid Level Transmitter

MODEL 359



A SMART, CLEAN FREAK TANK LEVEL TRANSMITTER

SLOWS GREASE & GRIME BUILD UP

When tanks are cleaned using liquids at temperatures exceeding 200° F, sensors generally require five to ten minutes to recover before maintaining accurate readings. The Model 359 recovers in less than one minute, minimizing costly down time and wasted process media due to inaccurate readings.

The Model 359 fits tank receivers or fittings in use on most sanitary equipment. The transmitter also comes in three different lengths for varying tank wall thickness.

CORROSION PROTECTION

The 359 comes in different mods to provides excellent protection against corrosion.

With a flush diaphragm, it is specifically designed for CIP and SIP systems and is approved by 3A as suitable for use with milk or milk products.

3A APPROVED SANITARY TRANMITTER

The 359 meets USDA guidelines for meat and poultry processing equipment. This hermetically sealed enclosure has internal and external magnets that function as adjustments for zero, span, calibration, and a finetuning zero adjustment not found in other transmitters. The 359 also features an internal calibration circuit with 3 to 1 span ranging for easy field set-up.

Viatran manufactures a complete line of pressure transmitters for all your sanitary applications.

The Model 359 tank level transmitter has been designed to dramatically improve CIP/SIP recovery time. Using hydrostatic pressure to determine liquid level, the 359 ensures accurate and reliable measurement in ranges from 33" WC to 750" WC.

FEATURES

- All welded construction
- 316L SS wetted parts
- Ranges down to 20"
- WC full scale
- High accuracy

TYPICAL APPLICATIONS

- Fuel tank level
- Chemical tank level
- Gas compressors
- Chemical processing

Approval Options Available



CERTIFICATIONS

ACCESSORIES

SPECIFICATIONS

PERFORMANCE Full Scale Pressure Range (FSPR) Non-linearity (best fit straight line) Hysteresis and repeatability Full Scale Output (FSO) Resolution Long Term Stability	≤±0.15% FSO ≤±0.10% FSO 16 mA Infinite
Response Time (mechanical and electrical combined)	<10 mSee to reach 00% FSO
Thermal recovery time	
Temperature Effect on Zero	
Temperature Effect on Span	
Temperature Effect on	_ ·
Calibration Signal	≤±2.0% FSO per 100°F
Compensated Temperature Range	
Process Temperature Limits	
Ambient Temperature Limits	
Storage Temperature Limits	-40°F to +250°F
ELECTRICAL	011
Sensor Technology	
Supply Voltage	12 to 40 VDC
Power Supply Regulation	
Output Signal	
Load Impedance	
•	-100% FSPR (elevation) to 80% FSPR (suppression). Coarse and fine adjustments standard.
Span	20 mA ±10/. ESO
Span Adjustment	
Range Calibration Signal	
	≤±0.2% FSO. The exact signal to pressure correlation is
	provided with each unit.
Circuit Protection	Varistor protected across the input leads for surges
Circuit i fotodion	above 55V and currents to 250 Amps peak with a pulse
	width of 8 to 20 µsec. Reverse polarity protected.
Insulation Resistance	> 200 MegOhms to case ground
	Negligible effect to 500 Mhz at 5 watts direct contact
	1/2" NPT (M), 3 wires, 18 AWG, 36" Length
Red	
Black	-Power/Signal
Green	Case Ground
MECHANICAL	
Pressure Connection	Flush mount sensor mates with
	King Engineer tank shell #1777
Day of Day of Day	0

3x rated range

Measured Fluids Any gas or liquid compatible with 316 stainless steel and silicone O-Ring

Oil Fill Less than 0.66 ml of DC 200 silicone oil

Proof Pressure

Burst Pressure 5x rated range

Weight4 lbs. nominalEnclosure Materials316L stainless sleelWetted Materials316L stainless sleel

Enclosure Classification Sanitary Standards Council	NEMA 4X, 5, 6, 12 Authorized to display the 3A symbol for conformity to sanitary standards for sensor, sensor fittings and connections used on milk and milk product equipment (#74-00)
OPTIONS Codes NSR HD HE GA GB GE	Descriptions Non Standard Ranging Short length for single wall tanks Extra long length for King Receiver #1777-3 Viton O-Ring Teflon O-Ring Buna-N O-Ring
ADAPTERS Codes HB HC HG HI HJ HK HL HM HN HP HS HT HU HV	2" Tri Clover 2 1/2" Tri Clover 3" Tri Clover 2" NPT Cherry-Burrell (standard shell) Tank Mate (long shell) 2" Cherry-Burrell I-Line 2 1/2" Cherry-Burrell I-Line Anderson (standard shell) Anderson (long shell) 1/4" NPT Cherry-Burrell (short shell) 1/2" NPT Taylor

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

Mounting Bracket Conduit Connection Box Loop Powered Digital Indicator

Protective Cover

Consult Factory for Availability

Model	"L" ± 10	"M" ± 10
359 STD (AA)	10.86	6.53
359 (HD)	6.46	2.13
358 (HE)	13.11	8.78

