

LIQUID LEVEL TRANSMITTER
Model WW517



FEATURES

- All welded construction
- 316L SS wetted parts
- Ranges down to 30" WC full scale
- High accuracy

TYPICAL APPLICATIONS

- Waste water
- Ballast tanks
- Shipboard
- Tank farms

STOPS SLUDGE FROM CLOGGING

Sludge plugs standard submersible transmitters, causing the sensor to fail. The design of the WW517 stops this from occurring.

The all welded 316L design eliminates potential leak paths. Our unique cable seal ensures that the watertight integrity of the unit up to 500 PSI (34 bar). The Model WW517's internal circuitry provides voltage surge (lightning) protection, while the 4 to 20 mA output signal minimizes potential outside interference and signal degradation. This feature is important when the signal travels over long cable lengths. The Model 517 also has available an Intrinsically Safe design.

The Model WW517 is a 316L liquid level transmitter with a 3" diameter opened faced Teflon coated sensor for waste water applications.



PERFORMANCE

	Full Scale Pressure Range (FSPR)	0-3, 5, 10, 15, 30, 50, 100, 200, 300, 500 PSI0-7, 12, 23, 35, 69, 115, 230, 462, 693, 1154 feet of water column
Accuracy Combined	Linearity, Hysteresis & Repeatability	$\leq \pm 0.1\%$ FSO typical ($\pm 0.25\%$ FSO max)
	Full Scale Output (FSO)	16 mA
	Resolution	Infinite
	Zero Balance	4 mA ± 0.08 mA
	Span	16 mA ± 0.08 mA
	Long Term Stability	$\leq \pm 0.20\%$ FSO per 6 months
	Temperature Effect on Zero	$\leq \pm 2.0\%$ 50°F (10°C)
	Temperature Effect on Span	$\leq \pm 2.0\%$ 100°F (37°C)
	Compensated Temperature Range	40°F to 120°F (4°C to 48°C)
	Operating Temperature.....	20°F to 185°F (-7°C to 85°C)
	Storage Temperature Range	20°F to 200°F (-7°C to 93°C)

ELECTRICAL

Supply Voltage.....	9 to 30 Vdc
Power Supply Regulation.....	$\leq \pm 0.0001\%$ FSO per Volt
Output Signal	4 to 20 mA
Maximum Load Resistance.....	$\leq 1050\Omega$ maximum @ 30 Vdc
Circuit Protection	Reverse Polarity Protected. Over-voltage protected to 1000V < 50microseconds
Electrical Connection.....	3 wire, 22 AWG
Red.....	+Power/Signal
Black	-Power/Signal
Bare.....	Case ground

MECHANICAL

Pressure Connection.....	2.9" flush sensing diaphragm (Teflon coated)
Proof Pressure.....	3 times rated range
Burst Pressure.....	5 times rated range
Diameter	4 inches O.D.
Weight	24 oz
Cable Weight.....	7 lbs per 1000 feet (polyurethane)

MATERIALS OF CONSTRUCTION

Housing	316 stainless steel
Pressure Connection.....	316 stainless steel
Sensor	316 stainless steel, Teflon coated
Cable Options.....	Polyurethane, Tefzel
Identification.....	Laser etched onto body
Cable Strength.....	Poly Wire - 30 lbs; Support Line - 100 lbs

LIQUID LEVEL TRANSMITTER Model WW517

CERTIFICATIONS (Consult Factory for Available Options)

FM Intrinsic Safety: Class I, Div 1, Groups A, B, C, D T4 Ta=80C; Class I, Zone 0, A Ex ia, IIC, T4 Ta=80C
 CSA Intrinsic Safety: Class I, Div 1, Groups A, B, C, D T4 Ta=80C; Class I, Zone 0, Ex ia, IIC, T4 Ta=80C

OPTIONS

Codes DH.....Special range
 EA.....Special calibration run
 NH.....Customer specified identification
 NR.....Alternate protection baffle plate
 TG.....CSA and FM Intrinsically Safe design (consult factory)

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

ACCESSORIES

Pump management system
 Panel mount digital display
 Pressure test fitting
 Lightning arrestor
 Baffle plate

