

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.

*For more information, contact Viatran.*



**PERFORMANCE**

	Full Scale Pressure Range (FSPR) .....	0-3, 5, 10, 15, 30, 50, 100, 200, 300, 500 PSI .....0-7, 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 $\pm 0.08$ mA
	Span .....	16 mA $\pm 0.08$ 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 < 50 .....microseconds
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

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**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

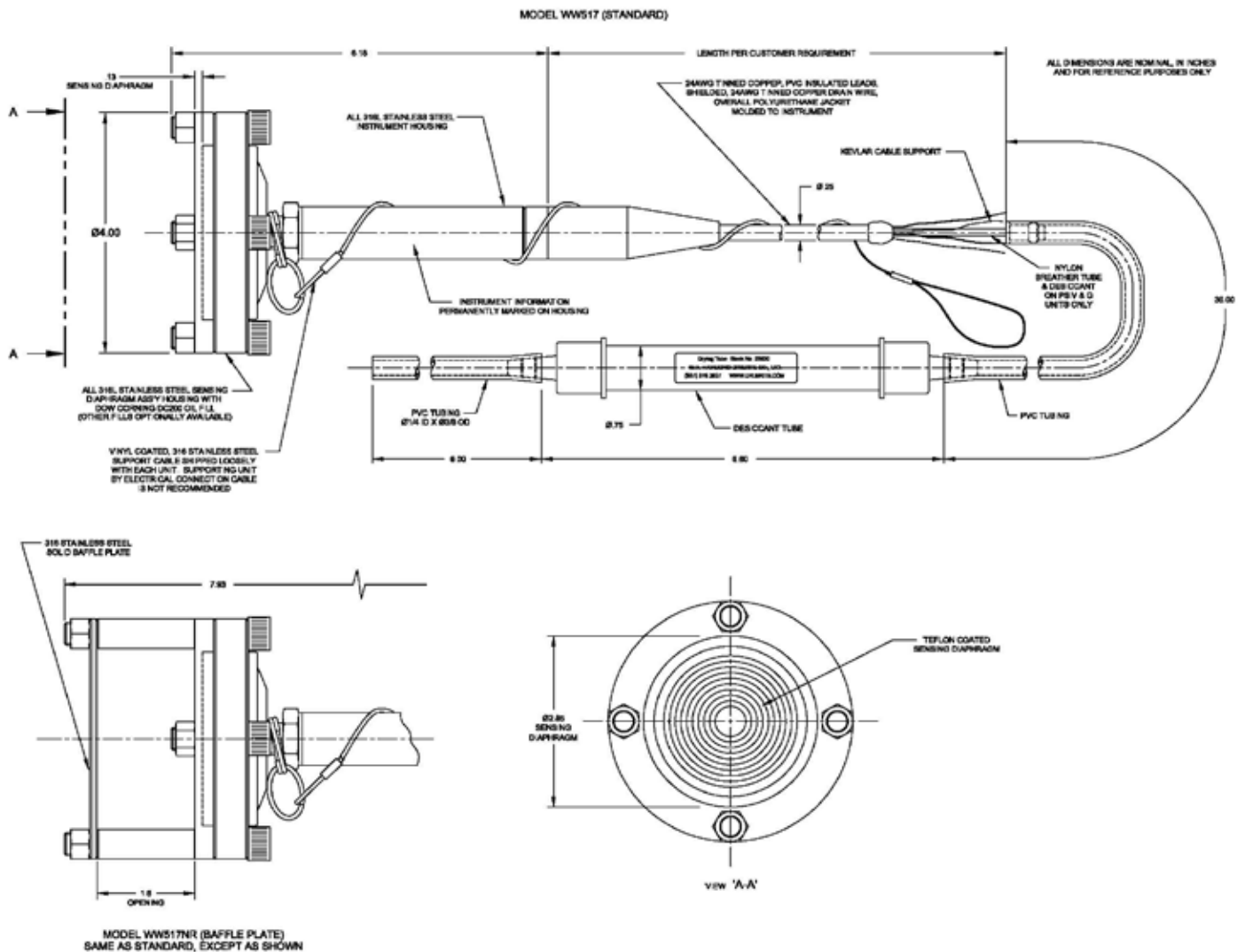
**OPTIONS**

- 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



Information is accurate to the best of Viatran's knowledge. We reserve the right to change specifications at any time. Please contact Viatran for specific order inquiries.