

# Liquid Level Transmitter

MODEL WW517



The Model WW517 is a 316L liquid level transmitter with a 3" Diameter opened faced Teflon coated sensor for Waste Water applications.

#### 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

Approval Options are Available.  
call for details.

## In applications where clogging is an issue

#### 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 the watertight integrity of the unit, up to 500 PSI. The Model

ww517's internal circuitry provides voltage surge (lightning) protection, while the 4-20 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.



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

Grand Island, NY • 1-800-688-0030 • [www.viatran.com](http://www.viatran.com) • [solutions@viatran.com](mailto:solutions@viatran.com)

An ISO 9001: 2000 Certified Company

### SPECIFICATIONS

#### PERFORMANCE

Full Scale Pressure Range (FSPR) ... 0-3, 5, 10, 15, 30, 50, 100, 300, 500 PSI  
0-80, 140, 275, 415, 555, 690, 830 inches water column.

Accuracy [combined linearity hysteresis and repeatability] ...  $\leq \pm 0.1\%$  FSO typical ( $\pm 0.25\%$  FSO max)  
Full Scale Output ... 16 mA  
Resolution ... Infinite  
Zero Balance ... 4 mA  $\pm$  0.08 mA  
Span ... 16mA  $\pm$  0.08mA  
Long Term Stability ...  $\leq \pm 0.20\%$  FSO per 6 months  
Temperature Effect on Zero ...  $\leq \pm 2.0\%$  per 50°F  
Temperature Effect on Span ...  $\leq \pm 2.0\%$  per 100°F  
Compensated Temperature Range ... 40°F to +120°F  
Operating Temperature ... -32°F to +185°F  
Storage Temperature Range ... -32°F to +250°F

#### ELECTRICAL

Supply Voltage ... 9.0 to 30 VDC  
Power Supply Regulation Effect ...  $\leq \pm 0.0001\%$  FSO per Volt  
Output Signal ... 4 to 20 mA  
Maximum Load Resistance ...  $R_{max} = \frac{(V-9V)}{0.02A}$   
Circuit Protection ... Output may be short-circuited indefinitely  
Input polarity may be reversed.  
Over-voltage protected to 1000 volts  
 $\leq 50$  micro seconds duration.

Electrical Connections ... 3 Wire, 22 AWG  
Red ... + Signal  
Black ... - 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 100 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.

Certifications ... Consult factory for Availability  
FM ... Intrinsic Safety Class I, II, III, Div. 1  
Groups A thru G and AEx ia IIC T4  
Indoor and Outdoor NEMA 4X  
Hazardous Locations.  
CSA ... Intrinsic Safety Class I, Div. 1, Ex ia IIC  
T4 Type enclosure

#### OPTIONS

Codes	Descriptions
DH	Special Range
EA	Special Calibration
NH	Customer specified identification
NR	Alternate protective baffle plate
TG	CSA and FM Intrinsically Safe design (consult factory)

#### ACCESSORIES

Pump management system  
Panel Mount Digital Display  
Pressure Test Fitting  
Lightning arrestor  
Tank profiler/flow rate  
Baffle plate

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

#### NOTE:

1. ALL DIMENSIONS ARE NOMINAL, IN INCHES AND FOR REFERENCE PURPOSES ONLY

