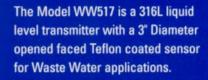
# **Liquid Level Transmitter**

# MODEL WW517



### FEATURES

- All welded construction
- 316L SS wetted parts
- m 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.



# **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

Accuracy [combined linearity

hysteresis and repeatability] . . . . . ≤ ±0.1% FSO typical (±0.25% FSO max)

 Full Scale Output
 16 mA

 Resolution
 Infinite

 Zero Balance
 4 mA ± 0.08 mA

 Span
 16mA ± 0.08mA

Long Term Stability . . . . . . . . ≤ ±0.20% FSO per 6 months

Temperature Effect on Zero  $\pm 2.0\%$  per  $50^{\circ}$ F Temperature Effect on Span  $\pm 2.0\%$  per  $100^{\circ}$ F Compensated Temperature Range  $\pm 40^{\circ}$ F to  $\pm 120^{\circ}$ F Operating Temperature  $\pm 32^{\circ}$ F to  $\pm 185^{\circ}$ F Storage Temperature Range  $\pm 32^{\circ}$ F to  $\pm 250^{\circ}$ F

ELECTRICAL

Supply Voltage ..... 9.0 to 30 VDC

Power Supply Regulation Effect . . . . ≤ ±0.0001% FSO per Volt

Output Signal . . . . . . 4 to 20 mA Maximum Load Resistance . . . . .  $R_{max} = \frac{(V-SW)}{0.02A}$ 

Circuit Protection ...... Output may be short-circuited indefinitely

Input polarity may be reversed.

Over-voltage protected to 1000 volts

< 50 micro seconds duration.

 Electrical Connections
 3 Wire, 22 AWG

 Red
 + Signal

#### 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 0.D.

Weight ..... 24 oz.

Cable Weight ..... 7 lbs. per 100 feet (Polyurethane)

### Materials of Construction

Cable options Polyurethane, Tefzel Identification Laser etched onto body Cable Strength Poly Wire – 30 lbs.

Support Line – 100 lbs.

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.

