

LEVEL TRANSMITTER**Model 517****FEATURES**

- Submersible
- Less than 7/8" diameter
- Corrosion resistant construction
- Ranges from 30" WC to 1,200 ft WC/500 PSI (34 bar)
- Intrinsically Safe design available
- All stainless steel construction

TYPICAL APPLICATIONS

- Methane gas wells
- Down hole water wells
- Inground and underground tanks
- Water and sewage treatment plants
- Reservoirs / Dams
- Marine / Shipboard
- Chemical waste ponds

HYDROSTATIC HEAD PRESSURE TO ACCURATELY MEASURE LEVEL

If you choose to measure level through hydrostatic head pressure, then you can't do better than the Model 517 from Viatran. The Model 517 promises an accuracy to 0.1%.

And it's submersible. Meaning you can throw it in the tank and not worry about some of the things that Process Engineers have to worry about - like the fog rolling in. The Model 517 will send you a reliable 4 to 20 mA output.

WHAT DOES RUGGED REALLY MEAN?

The Model 517 has been engineered to survive in hostile media. We're confident you can depend on the 517. Internal circuitry provides lightning protection, while a 4 to 20 mA output signal minimizes potential outside interference and signal degradation. All of this is critical if the signal needs to travel over long cable lengths (as in groundwater studies).

RUGGED FEATURES

The unique Viatran cable seal ensures watertight integrity up to 500 PSI (34 bar). Other potential leak paths are avoided by Viatran's all-welded sensor design. This design eliminates the O-ring seal.

OPTIONAL 1/4" NPT PRESSURE PORT

A removable end cap comes standard on the Model 517. However, if weight is needed, heavier end caps are available. The optional 1/4" NPT pressure port is ideal for checking unit calibration against a known pressure source.



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)
 Hysteresis & Repeatability $\leq \pm 0.05\%$ FSO
 Full Scale Output (FSO)16 mA
 ResolutionInfinite
 Zero Balance4 mA $\pm 0.25\%$ FSO
 Long Term Stability $\leq \pm 0.20\%$ FSO per year
 Response time..... ≤ 1 mSec
 Temperature Effect on Zero $\leq \pm 1.0\%$ 100°F (37°C)
 Temperature Effect on Span $\leq \pm 1.0\%$ 100°F (37°C)
 Compensated Temperature Range32°F to 180°F (0°C to 82°C)
 Operating Temperature.....-40°F to 185°F (-40°C to 85°C)
 Storage Temperature Range-40°F to 250°F (-40°C to 121°C)

ELECTRICAL

Supply Voltage.....9 to 30 Vdc
 Power Supply Regulation..... $\leq \pm 0.0001\%$ per Volt
 Output Signal4 to 20 mA
 Span..... $< 0.25\%$ FSO
 Circuit ProtectionReverse polarity protected. Over-voltage protected to 1000V,
 < 1 mSec duration
 Electrical Connection.....3 wire, 22 AWG
 Red.....+Power/Signal
 Black-Power/Signal
 Bare.....Case ground

MECHANICAL

Pressure Connection.....5/8" - 18 UN female thread with protective end cap installed
 Proof Pressure.....3 times rated range
 Burst Pressure.....5 times rated range
 Diameter0.875 inches
 WeightPressure capsule 10 oz.
 Cable Weight.....30 lbs per 1000 feet

MATERIALS OF CONSTRUCTION

Housing316L stainless steel
 Pressure Connection Sensor.....316L stainless steel
 Cable Options.....Polyurethane, Tefzel
 Identification.....Laser etched onto body
 Cable Strength.....Internal Kevlar Cord- 300 Lbs Pull

CERTIFICATIONS (Consult Factory for Available Options)

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 4 Enclosure

OPTIONS

Codes	
DH.....	Special range
DN.....	Improved accuracy
EA.....	Special calibration run
NH.....	Customer specified identification
NR.....	Alternate protection baffle plate with weight hook (max weight 2 lbs)
TG.....	CSA and FM Intrinsically Safe design

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

ACCESSORIES

Breather tube filler
Panel mount digital display
Pressure test fitting (1/4" NPT (F) screws into end cap threads)
Desiccant tube kit

