

LevelTransmitter

MODEL 517



The Model 517 is an all-welded, submersible unit designed to give an accurate level measurement in up to 1,200 feet of water. The 517 is excellent for general water applications, and excels in a number of corrosive applications. The piezoresistive silicon sensor offers excellent accuracy and stability.

FEATURES

- Submersible
- Less than 7/8" diameter
- Corrosion resistant construction
- Ranges from 30"WC to 1,200 feet of water/500 psi
- 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

Approval Options Available.
Contact Viatran for the latest.

MEASURE LEVEL USING HEAD PRESSURE

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 4-20 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. 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 critical for checking unit calibration against a known pressure source.

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

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An ISO 9001:2001 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" water column

Accuracy (combined linearity, hysteresis and repeatability) . . . $\leq \pm 1\%$ FSO ($\leq \pm 0.25\%$ FSO maximum)
 Hysteresis & Repeatability . . . $\leq \pm 0.05\%$ FSO
 Full Scale Output (FSO) . . . 16 mA
 Resolution . . . Infinite
 Zero Balance . . . 4 mA $\pm 25\%$ FSO
 Long Term Stability . . . $\leq \pm 0.20\%$ FSO per year
 Response Time . . . ≤ 1 mSec
 Temperature Effect on Zero . . . $\leq 1.0\%$ per 100°
 Temperature Effect on Span . . . $\leq 1.0\%$ per 100°
 Compensated Temperature Limits . . . 32° to +185°
 Operating Temperature Limits . . . -40° to +185°
 Storage Temperature Limits . . . -65° to +250°

ELECTRICAL

Supply/Voltage . . . 9.0 - 30 VDC
 Power Supply Regulation Effect . . . $\leq \pm 0.001\%$ FSO per Volt
 Output Signal . . . 4-20 mA
 Span . . . $< 0.25\%$ FSO
 Maximum Load Resistance . . . Output may be short circuited indefinitely.
 Input polarity may be reversed. Over-voltage protected to 1000 volts. < 1 mSec duration.
 Electrical Connection . . . 3 Wire, 22 AWG
 Red . . . + Signal
 Black . . . - 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
 Diameter . . . 0.875 inches
 Weight . . . Pressure Capsule 10 oz.
 Cable . . . 11.3 lbs. per 100 feet (Polyurethane)

MATERIALS OF CONSTRUCTION

Housing . . . 316L Stainless Steel
 Pressure Connection Sensor . . . 316L Stainless Steel
 Cable Options . . . 316L Stainless Steel
 Mounting . . . Polyurethane, Tefzel
 Identification . . . Suspended by cable
 Optional Certifications . . . Laser etched on body
 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 4 Enclosure

Options

DH . . . Codes Descriptions
 DN . . . Special range
 EA . . . Improved accuracy
 NH . . . Special calibration
 NR . . . Customer specified identification
 Alternate protective baffle with weight hook (maximum weight: 2 lbs)
 CSA and FM Intrinsically Safe design (consult factory)

Accessories

Breather Tube Filters
 Panel Mount Digital Display
 Pressure Test Fitting
 (1/4" NPT(F), screws into end cap threads)

Note: Application of some available options may affect standard performance. Consult your Viatran representative for details on this or other products.



Contact your Water Market Service Team at 1-800-688-0030, ext 506 for other Viatran Solutions or visit www.viatran.com.

