

SUBMERSIBLE PRESSURE TRANSMITTER - NPT


VERSALINE VL1000 SERIES

The PMC VersaLine Series submersible transmitters are designed for depth and level measurements of ground, surface, waste, and sea water. Suitable for small size bore holes, wells, dams, irrigation, sewage lift stations, rivers and oceanography. The VL1000 Series retains all these features but includes an NPT threaded pressure connector for increased applications uses.

Available in either 316L Stainless Steel or Titanium. The Titanium housing provides immunity to virtually all environments, especially including brackish or sea water, or other chemicals unsuitable for stainless steel. The polyurethane vented cable is molded to the transmitter providing the highest integrity waterproof assembly, proven in thousands of installations worldwide. Kevlar is used to avoid cable elongation when longer lengths up to 5000 feet are required for deep wells.

A feature of the VL1000 Series is full scale ranges as low as 10" WC. The sensing technology features a highly stable ceramic capacity sensing element and supported by more than 20 years' experience in depth and level applications.

TECHNICAL SPECIFICATIONS

Full Scale Ranges (Zero Based)	0-10, 20, 30, 50"WC 0-1, 5, 10, 15, 30, 50, 100, 150, 200, 300 psig 0-50, 100, 150, 200, 300 psia <i>Other ranges and pressure units can be specified.</i>
Accuracy	±0.1% FS (BSL) or ±0.25% FS (BSL) <i>Combined non-linearity, hysteresis & repeatability</i>
Overpressure	Full scale ranges up to 20 psi - 10X Full scale ranges above 20psi up to 150 psi - 4X Full scale ranges above 150 psi - 2X
Operating Temperature Range	-10° to +175° F (-20° to +80° C)
Compensated Temperature Range	-5° to 175° F (-20° to +80° C)
Temperature Effects (Compensated)	±1.5% TEB for ranges 5 psi and above ±2.0% TEB for ranges below 5 psi <i>Improved temperature performance available upon request.</i>
Electrical	2-wire, 4-20 mA, 10-35 VDC power
Intrinsically Safe Approvals	 Available with FM Intrinsically Safe Certification for use in Class I,II, and III, Division 1, Groups A,B,C,D,E,F, & G hazardous locations. <i>Note: FMC approval is included for Canadian requirements</i>
Cable – up to 5000ft in single length	Polyurethane molded, vented with Kevlar, 4 conductors
Housing	316L Stainless Steel with ¼" NPT process fitting as standard. <i>Other fittings can be specified.</i> Titanium alternate material with 5 year corrosion warranty
Weight (excluding cable)	7.6 oz. (excluding cable)

PMC Engineering adopts a continuous development program which sometimes necessitates specification changes without notice

Process Measure Control

Features

- NPT Connection
- 0.1% /0.25% accuracy
- 10" WC to 300 psi
- 4-20 mA, 2-wire
- FM Certified Option
- CE

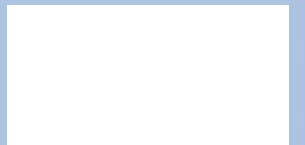
Applications

- Bore Holes
- Tank Level
- Waste Water
- Oceanography
- Ground Water

Contact

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Represented by:



Your depth and level specialists for Ground, Surface, Sea and Waste Water

PMC Configurator

VL x x x x

Model Construction	1" Process connection ¼" NPT female standard - <i>please specify other if required</i>	1
Housing Material	316L Stainless Steel Titanium - 5 year corrosion warranty	1 2
Electrical Connection	Polyurethane molded cable FEP cable Cable length must be specified at the time of ordering.	1 2
Electrical Configuration	4-20 mA	3

Example Ordering Format: VL1113 - 50psig - 0.25% - 20' cable (add process connection)

RELATED PRODUCTS

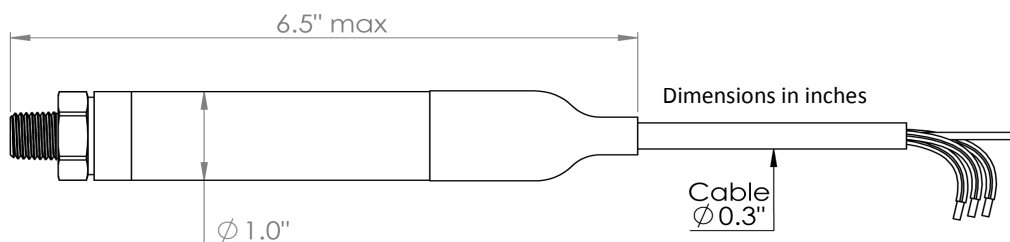
The VersaLine **VL4000** and **MTM3000** offer similar performance with 3/4" and 3/8" diameter housings respectively suitable for deeper or smaller well installations. The **VL2000** provides an open face construction avoiding clogging or sludge build up in wastewater and similar applications. PMC manufactures a wide range of other level transmitters including sanitary flush designs for use in water and wastewater management, food and beverage, pulp and paper, and pharmaceutical applications. Please refer to appropriate data sheets.

FOR ZERO MAINTENANCE



In order to reduce on site maintenance PMC has developed the MP 11 Moisture Protection Reference Volume. For vented gauge transmitters this provides a total isolation to the atmosphere by using a custom bladder while maintaining the high performance of the transmitter. This changes volume with Barometric pressure. Totally maintenance free. Please specify MP 11.

MECHANICAL DETAILS



ELECTRICAL DETAILS

Configuration	+Ve Supply	0V Supply	Ground
4-20mA	Red	Black	Green

Process Measure Control

Sensors for

- Pressure
- Level
- Vacuum
- Humidity
- Temperature
- Force
- Position

Accessories

PMC offers a range of Accessories and variants for depth and level transmitters. Reference sheet VLA502

- Termination Enclosure
- Cable Hanger
- Moisture Protection
- Calibration Adaptor
- Sink Weights
- Level Meters

PMC is

- Engineering Driven
- Confidential
- Experienced
- Responsive
- Dynamic
- Friendly

Your depth and level specialists for Ground, Surface, Sea and Waste Water