

SUBMERSIBLE LEVEL TRANSMITTER - 0.69" VERSALINE VL4313 SERIES

The **VL4313 Series** is a State-of-the-Art Submersible Level Transmitter that combines innovative sensing technology with proven manufacturing techniques. The current design is based on more than 30 years experience in providing reliable submersible pressure transmitters for water related applications.

The product has an anticipated reliability (MTBF) of more than 12 years. In support of this the design is rich in features many of which are shown on the reverse side of this datasheet.

PMC manufactures a comprehensive range of submersible level transmitters many of which are manufactured from Titanium which offers a five year corrosion warranty. The VersaLine **VL1000**, **VL3000**, **VL4000 series** and **MTM3000** offer similar performance while contained within 1", ¾" and 3/8" diameter housings respectively. The **VL2000** provides an open face construction avoiding clogging or sludge build up in wastewater and similar applications.

TECHNICAL SPECIFICATIONS

Full Scale Ranges (Zero Based)	0-5, 15, 30, 50, 100, 150, 200, 300 psig 0-50, 100, 150, 200, 300, 500, 1000, 2000 & 3000 psig. <i>Other ranges and pressure units can be specified.</i>
Accuracy	±0.25% FS (BSL) <i>Combined non-linearity, hysteresis & repeatability</i>
Long Term Stability	±0.2% FS typical per annum
Overpressure (proof pressure)	2 x full scale for all ranges
Pressure Containment	4 x for ranges up to 500 psi 2 x for higher ranges
Operating Temperature Range	-10° to +175°F (-20° to +80°C)
Compensated Temperature Range	30° to 85°F (-2° to +30°C)
Temperature Effects (Compensated)	±0.5% TEB for compensated range <i>Applies to ranges 15 psi and above.</i> <i>Other ranges prorated to the standard range above.</i>
Insulation Protection	Hipot test to 500V between power lines and case
Electrical	2-wire, 4-20 mA, 10-35 VDC power <i>Design suitable for pulse power</i>
Intrinsically Safe Approvals	For FM/FMC Class I, II, and III Div. 1 Groups A-G <i>Please refer to VL2000, VL3000 and VL4000</i>
Cable – up to 5000ft in single length	Polyurethane molded, vented with Kevlar, 2 conductors. Single lengths up to 5000ft. <i>Contact factory for FEP cable.</i>
Housing	Stainless Steel 316L <i>For Titanium housing, see VL4513</i>
Weight (excluding cable)	VL4313 - 7 oz. (excluding cable)

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

Process Measure Control

Features

- 0.69" diameter
- ±0.25% accuracy
- 4-20mA, 10-35 VDC
- Molded cable
- Fully Potted
- CE

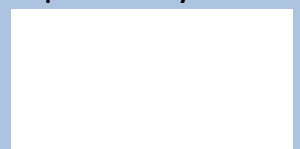
Applications

- 1" dia. Bore Holes
- Water Level
- Waste Water
- Sewage Level
- 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
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Model Construction	0.69" Depth Cone	4	
Housing Material	316L Stainless Steel		3
Electrical Connection	Polyurethane molded, vented cable Cable length must be specified at the time of ordering.		1
Electrical Configuration	2 wire 4-20 mA		3

Example Ordering Format: VL4313 - 300psig - 0.25% - 500' cable

VERSALINE VL4313 FEATURES

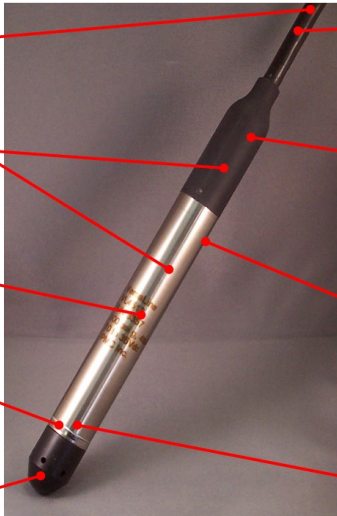
Breather connected directly to sensor reference to ensure ideal performance

Fully-Potted to provide secondary level of protection against water ingress

Solid State Electronics providing 4-20 mA, 2-wire, Loop Powered

Laser-Welded

Anti-Shock Nose Cone to avoid damage from water hammer



Custom Vented Cable with Kevlar® to avoid cable elongation

Injection-Molded Cable Seal eliminates water ingress

0.69 inch diameter for installation into small diameter bore holes. Note: The cable molding may be protected with a stainless steel housing. However the external dimensions will be unaffected.

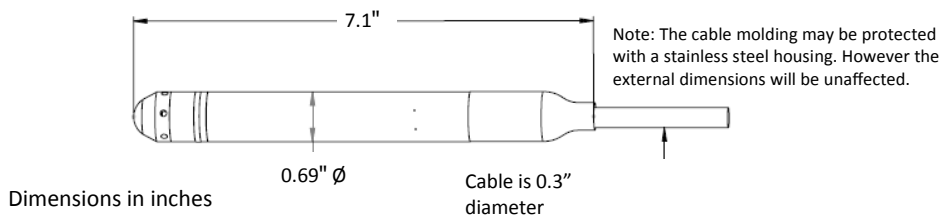
Piezoresistive Technology provides High Accuracy and good Long Term Stability

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