

LEVEL TRANSMITTER - HAZARDOUS LOCATIONS VERSALINE VL4200 SERIES


The PMC VersaLine VL4200 Series submersible transmitters, feature FM Certification for use in hazardous locations. They are specifically designed for depth and level measurements of groundwater, wastewater, and sea water.

The Titanium housing provides immunity to virtually all environments, especially including brackish or sea water, or other chemicals unsuitable for stainless steel.

The standard polyurethane vented cable is molded to the transmitter providing the highest integrity waterproof assembly well proven in thousands of installations worldwide. Kevlar is used to avoid any cable elongation when longer lengths up to 5000 feet are required for deep wells. FEP cable is available as an alternate for harsh environments. A feature of the VL4200 Series is full scale ranges as low as 10" WC.

The VersaLine VL3000 and MTM3000 offer similar performance while contained within 1" 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)	0-10, 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 Above 20 to 150 psi-4X Above 150 psi-2X
Operating Temperature Range	-10° to +175° F (-20° to +80° C) - non freezing
Compensated Temperature Range	30° to 85° F (-2° to +30°C)
Temperature Effects (Compensated)	High accuracy (±0.1) ±0.3% TEB for ranges 5 psi and above ±1.0% TEB for ranges below 5 psi Standard accuracy (±0.25%) ±1.5% TEB for ranges 5 psi and above ±2.0% TEB for ranges below 5 psi
Electrical	2-wire, 4-20 mA, 10-35 VDC power
Intrinsically Safe Approval	 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	Polyurethane molded, vented with Kevlar, 4 conductors <i>Contact factory for FEP cable.</i>
Housing	Titanium with 5 year corrosion warranty <i>For 316 Stainless Steel contact the factory</i>
Weight (excluding cable)	6.5 oz. (excluding cable)

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

Process Measure Control

Features

- 0.1% / 0.25% accuracy
- 10" WC-300 psi range
- 3/4" Ø Welded Titanium
five year warranty
- Molded Cable
- FM Certified Option
- CE

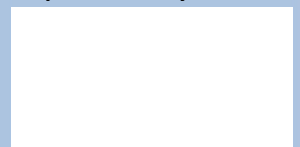
Applications

- 1" dia. Bore Holes
- Water 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	0.75" Depth Cone	4
Housing Material	Titanium - 5 year corrosion warranty	2
Electrical Connection	Polyurethane molded cable	1
	FEP cable	2
Cable length must be specified at the time of ordering.		
Electrical Configuration	4-20 mA	3

Example Ordering Format: VL4213 - 300'WC - 0.1% - 350' cable - IS

VERSALINE FEATURES

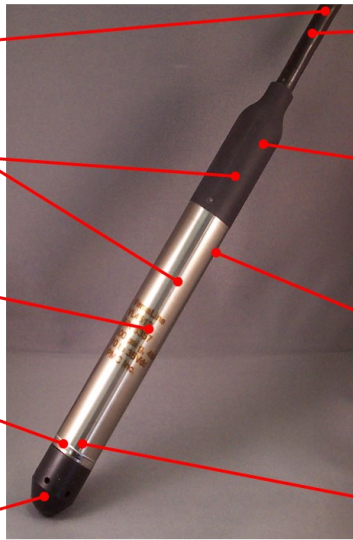
Breather connected directly to sensor reference to ensure ideal performance

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

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

Laser-Welded Titanium Housing with 5-year Corrosion Warranty

Anti-Shock Nose Cone to avoid damage from water hammer



Custom Vented Cable with Kevlar® strain retention

Injection-Molded Cable Seal eliminates water ingress

0.750 inch diameter for installation into small diameter bore holes

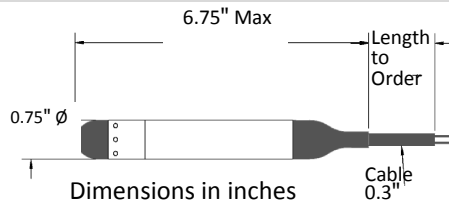
Capacitive Technology provides High Accuracy and good Long Term Stability

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 (case)	Not Connected
4-20mA	Red	Black	Green	Drain & Yellow

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