

Remote Terminal Head and Display

SMART HART® SUBMERSIBLE LEVEL TRANSMITTERS VERSALINE VL - SMT SERIES

The PMC Smart Submersible Level Transmitters are designed for applications where it is required to submerge the transmitter into the process fluid or water. They have been developed for either tank or water level measurement in natural environments such as wells, rivers, reservoirs, sewage, marine, etc. The vented Polyurethane or FEP-jacketed cable can be immersed in many types of aggressive liquids such as waste water, sea water, alkaline or acidic chemicals, fuel oils, lube oils and most solvents. It is PMC's most rugged transmitter design.

Field ranging through the Hart® interface permits adjustment to suit the installation application. This features the ability to make adjustments to suit the environmental changes often encountered during the different seasons.

Smart Submersible Level Transmitters with Remote Electronics focus on the separation of the electronics from the sensor. This option offers solutions in industries most difficult applications. The electronics are located away from the process or at the well head for example, enabling calibration and range adjustments without exposing personnel to hazardous or extreme locations.

Process Measure Control

Features

- Hart® Protocol
- 4-20 mA
- 0-5" H²O to 0-300 psi
- ±0.25% accuracy
- Remote Sensor

Applications

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

TECHNICAL SPECIFICATIONS

Full Scale Ranges (Zero Based)	0 to 5"H ² O through 0 to 300 PSIG ± 5"H ² O through ± 400"H ² O Compound (Contact PMC) 0 to 10"Hg through 0 to 30"Hg Vacuum (Negative) 0 to 15 PSIA through 0 to 150 PSIA (Contact PMC)
Accuracy	± 0.25% of full span. <i>Includes linearity, hysteresis and repeatability.</i>
Overpressure	FS Ranges up to 20 psi - 10x Ranges from 20 psi to 150 psi - 4x Above 150 psi - 2x
Temperature Effects (Compensated)	±0.5% Total error band 32°F to 130°F (0°C to 50°C) ±2.5% Total error band -20°F to 212°F (-30°C to 100°C)
Operating Temperature Range	-10° to +175°F (-20° to +80°C)
Compensated Temperature Range	30° to 85°F (0° to +30°C)
Output Signal	4-20 mA, (2 wire) and Smart Hart® Protocol Revision 5 <i>Contact PMC for more information concerning HART® Protocol</i>
Supply Voltage	24 VDC nominal
Cable	Polyurethane molded, vented with Kevlar strain relief
Transmitter Housing	1" diameter Stainless Steel or Titanium with 5 year warranty
Electronic Housing (Terminal Head)	Duplex TH Junction, powder coated anodized Aluminum-34 oz. Duplex TH/SS Junction, 316L Stainless Steel-64 oz.
Intrinsically Safe Approvals	For FM/FMC Intrinsically Safe Certification contact PMC
Weight (transmitter only)	7.6 ounces (transmitter only)

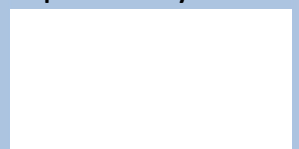


PMC Engineering adopts a continuous development program which sometimes necessitates specification changes without notice

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 XX X

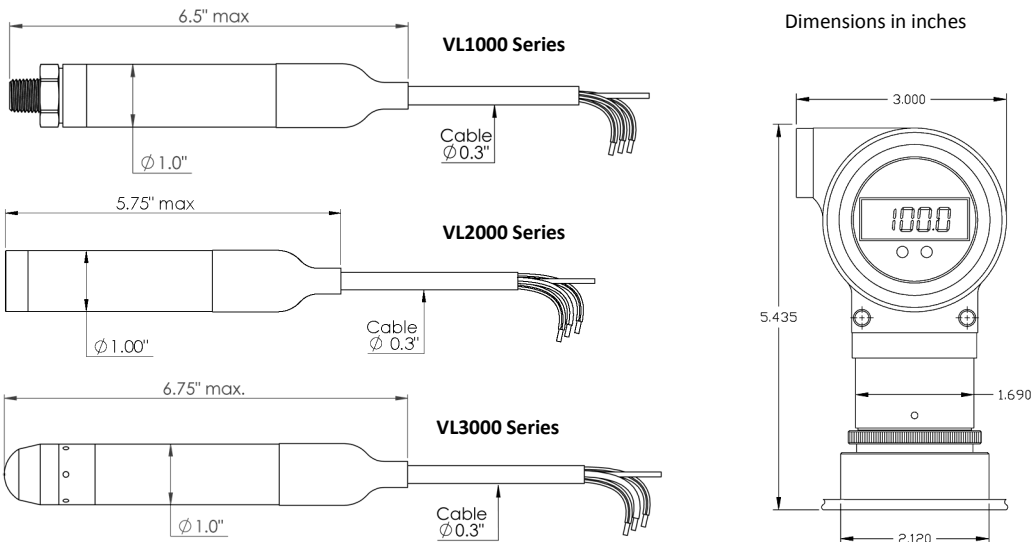
Model Construction	Process Connection -1/4" NPT std-specify other if required	1					
	1" Ceramic Open Face	2					
	1" Depth Nose Cone	3					
Housing Material	316L Stainless Steel	1					
	Titanium-5 year warranty	2					
Electrical Connection to sensor	Polyurethane molded cable	1					
	FEP cable	2					
Electrical Configuration	4-20mA		3				
	Cable length between terminal head and sensor must be specified at the time of ordering (ft).					XX	
Electronics Termination	Smart RemoteTerminal Head					SMT-RE-TH	
HART® Protocol	Smart RemoteTerminal Head with Display					SMT-RE-TH/D	

Example Ordering Format: VL2113-5psi-0.25%-30' cable-SMT-RE-TH/D

RELATED PRODUCTS

For submersible applications, PMC also offers the VersaLine Series of pressure transmitters. The **VL2000** provides an open face construction avoiding clogging or sludge build up in wastewater and similar applications. The **VL3000**, **VL4000** and **MTM3000** offer similar performance with 1" 3/4" and 3/8" diameter housings respectively suitable for deeper or smaller well installations. They offer full scale ranges as low as 10" WC. PMC manufactures a wide range of other level transmitters including flush designs for use in water and wastewater management, food and beverage, pulp and paper, and pharmaceutical applications. Please refer to appropriate data sheet.

MECHANICAL DETAILS



ELECTRICAL DETAILS

Configuration	+Ve Supply	0V Supply	Ground
4-20mA	See Terminal	Head	for connections

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 led
- Confidential
- Experienced
- Responsive
- Dynamic
- Friendly

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