



## DUAL OUTPUT LEVEL & TEMPERATURE TRANSMITTER VERSALINE VL5005 SERIES

The VL5005 Series is part of a comprehensive range of transmitters specifically designed for long term monitoring of ground water, wastewater and tank level measurement. It provides a dual 4-20mA, 3 or 4 wire configuration for both level and temperature. Features such as Kevlar strengthened cable, titanium, ballast weights, data loggers, broaden the installation opportunities.

### TECHNICAL SPECIFICATIONS

<b>Pressure - Ranges (zero based)</b>	Any range 20"WC to 1000 psi FS available, in any engineering units such as psi, Pa, inches H2O, bar. <i>Consult Factory for higher ranges. Absolute or gauge types available.</i>
<b>Proof Pressure</b>	FS up to 15 psi: 45 psi FS > 15 psi up to 360 psi: 3 x FS (max. 360 psi) <i>Consult factory for higher proof pressure</i>
<b>Operating Temperature Range</b>	25 to 175°F (process media)
<b>Compensated Temperature Range</b>	25 to 175°F
<b>Accuracy for Pressure</b>	≤ ±0.1% FS or ≤ ±0.25% FS <i>Combined linearity, hysteresis, repeatability, zero and span set</i>
<b>Total Error Band (TEB) (Includes linearity, hysteresis, repeatability, zero and span settings and temperature effects)</b>	±0.8% total for 25 to 125°F, ≤ 7.25 psi ±1.3% total for 25 to 175°F, ≤ 7.25 psi OR ±0.3% total for 25 to 125°F, > 7.25 psi ±0.75% total for 25 to 175°F, > 7.25 psi
<b>Response Time</b>	<1ms (10 to 90%FS)
<b>Long Term Stability</b>	0.1% FS/yr for pressure ranges > 30 psi <i>Prorated for ranges below 30 psi under standard conditions</i>
<b>Temperature - Range</b>	Temperature measuring range: 25 to 175°F (Standard) Minimum temperature setting span: 55°F <i>Consult factory for other temperature ranges</i>
<b>Accuracy for Temperature</b>	± 0.5°F
<b>Temperature Response Time</b>	τ 0.50 - 60s, τ 0.63 - 75s, τ 0.90 - 160s
<b>Electrical (See details on back page)</b>	Supply voltage: 9 - 30 VDC. Influence of supply voltage < 0.05% FS Dual output signals for pressure & temp: 4 - 20mA, 3 or 4 wire Load Resistance: R <sub>L</sub> (max): (V supply - 9V)/0.02A R <sub>L</sub> (min): (Vsupply - 15V)/0.02A Influence of load resistance < 0.05% FS Insulation resistance: > 50 megohms @ 500 VDC (@ 68°F)
<b>Construction</b>	Titanium (with five year corrosion warranty )or 316L Stainless Steel
<b>Cable</b>	Molded Polyurethane, or FEP cable
<b>Weight (excluding cable)</b>	6.5oz
<b>Vibration/Mechanical Shock</b>	10 g, 10 to 2000 Hz / 100 g, 6 ms

PMC-STs, Inc. adopts a continuous development program which sometimes necessitates specification changes without notice

## Process Measure Control

### Features

- Fully submersible 1"Ø
- Dual 4-20 mA output
- 20" WC to >1000psi
- 25 to 175°F
- Titanium Construction  
five year warranty

### Applications

- 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

<b>Model Construction</b>	.95" diameter Depth	5
<b>Housing Material</b>	Titanium - 5 year warranty	2
	316L Stainless Steel	1
<b>Electrical Connection</b>	FEP cable (High Temp)	7
	Molded Polyurethane Cable	1
Cable length must be specified at the time of ordering.		
<b>Electrical Configuration</b>	Dual 4-20 mA, 3 or 4 wire configuration	5
3 wire is standard. Contact factory for 4 wire availability.		

**Example Ordering Format: VL5275 - 300psi - 0.1% - 700' cable - 3 wire**  
**Please specify temperature range setting if different from 25 to 175 °F**

## RELATED PRODUCTS

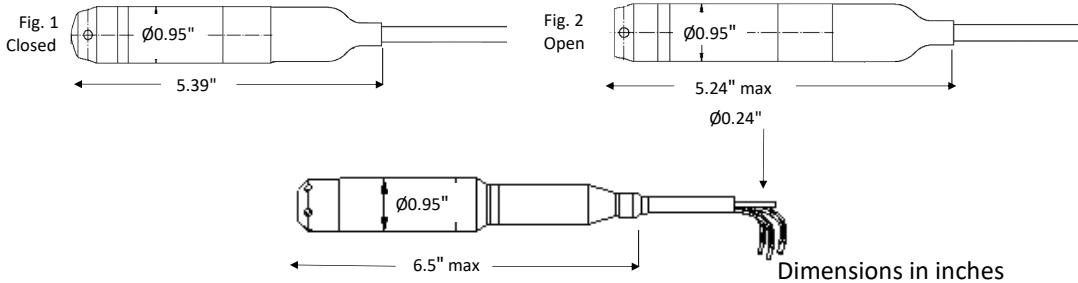
In addition to this product PMC specializes in offering a wide range of submersible sensors for depth and level applications. For example the VersaLine **VL4000** and **MTM3000** offer similar performance with 3/4" and 3/8" diameter housings respectively suitable for deeper or smaller well installations. 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 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

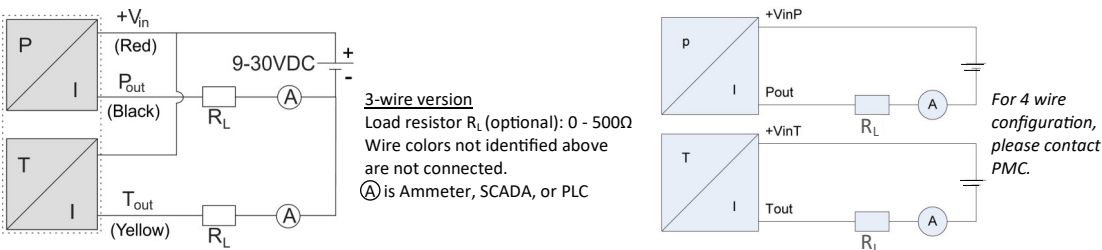


In order to reduce on site maintenance PMC has developed the MP 11 Moisture Protection Reference Volume. For vented gauge transmitters this provides a total isolation to the atmosphere by using a Mylar sphere which changes volume with Barometric pressure. Totally maintenance free. Please specify MP 11.

## MECHANICAL DETAILS



## ELECTRICAL DETAILS



## 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 separate data sheet.

- 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**