



## Smart Hart® Submersible Level Transmitters

*SMT/EL SUB (RE)*



- $\pm 0.25\%$  accuracy
- Ranges 0 to 5" WC / 0 to 300 psig
- Extremely rugged design
- HART® protocol and 4-20mA
- Remote sensor option

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 double-sealed housing is well suited for longevity in such environments. The vented Teflon 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.

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 **MTM/N10** 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 sanitary flush designs for use in water and wastewater management, food and beverage, pulp and paper, and pharmaceutical applications. Please refer to appropriate data sheet.

## STANDARD SPECIFICATIONS

### Ranges

0 to 5"WC through 0 to 300 PSIG  
 ± 5"WC through ± 400"WC Compound  
 0 to 3"Hg through 0 to 30"Hg Vacuum (Negative)  
 0 to 15 PSIA through 0 to 150 PSIA

Other pressure units and ranges can be specified.  
 Examples: PSI, Pa, kPa, bar, mbar, kg/cm<sup>2</sup>, mm/Hg, etc.

### Diaphragm Size

1.5" (38.09 mm)

### Sensing Area

1.29" (32.76 mm)

### Accuracy

± 0.25% of full span.  
 Includes combined effects of linearity, hysteresis and repeatability.

### Overpressure

0 through 100 PSI—10 Times  
 100 PSI through 300 PSI—4 Times

### Temperature

±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)

### Output Signal

4-20 mA, (2 wire) Smart Hart® Protocol

### Supply Voltage

24 VDC nominal

### Electronic Housing

304 / 316L Stainless Steel

### Weight

26 ounces CV/P  
 Stainless Steel Cover Terminal Junction  
 34 ounces TH  
 Anodized Aluminum Terminal Junction Head  
 62 ounces THSS  
 Stainless Steel Terminal Junction Head

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

## ORDERING INFORMATION

# PMC - SMT/EL SUB

## Smart HART® Submersible Level Transmitter

When ordering please specify the following:

MODEL - PMC SMT PT/EL SUB	
Range	Specify (PSI, kPa, Bar, etc.)
144" WC	Select Desired Range
	Diaphragms
	Ha Havar
	Hc Hastelloy-C
	Ta Tantalum
	Cer/L Ceramic
	Termination
	TH/D

(1) Model (2) Specify (3) Select (4) Select

- (1) Model...PMC SMT PT/EL - SUB
- (2) Range...144" WC
- (3) Diaphragm Material...Cer/L
- (4) Terminal Junction...TH/D\*

\*Anodized Aluminum Terminal Junction Head with LCD Display

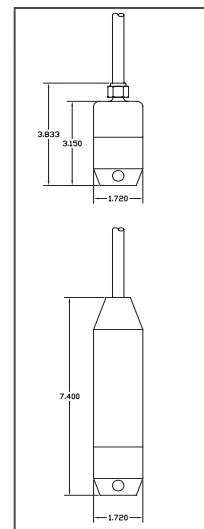
## OPTIONS

### Submersible Versions (SUB) Remote Electronics (RE XX ft.) LCD Display

### Terminal Junctions

CV/P S/S Cover with Polyurethane vented cable  
 CV/T S/S Cover with Teflon FEP vented cable  
 TH Aluminum Anodized/Coated Terminal Head  
 TH/SS Stainless Steel Terminal Head

Please contact the factory for further information.



All measurements shown in inches

HEAD OFFICE



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