



Submersible Depth and Level Transmitters



BACKGROUND

PMC-STC has been providing solutions for level measurement since 1963. The VersaLine transmitters are based on more than 30 years of design development to provide reliable products, customized for the demands of the long term monitoring for ground water and waste water.

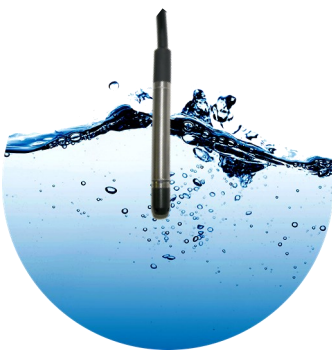
The basic VersaLine (VL Series) products are manufactured from Stainless Steel or Titanium and provide a combination of packaging and design features for maintenance free long term installations.

STS has been providing similar products (TM Series) to the European market for more than 25 years and has combined its technology and products with PMC to expand the product offering to include such valuable features as rangeability, digital outputs, datalogging and small size.

PMC-STC have also developed a comprehensive range of accessories such as sink weights, cable hangers, termination boxes and maintenance free breather connections.

This guide provides an overview of the products available. We encourage you to visit our website or contact us directly for more detailed technical specifications to any of the products which might be of interest to you.

MTM3000



MINIATURE BORE HOLES
TITANIUM
REMOTE ELECTRONICS

FEATURES

Designed for small diameter bore holes. Titanium construction features 5 year corrosion warranty.

Diameter: 0.39"

Technology: Piezoresistive

Accuracy: 0.1% or 0.25%

Pressure Ranges:
0 - 10 psi to 0 - 500 psi
Gauge or Absolute

Output signal:
4-20mA @ 9-33 VDC (2 wire)
0-5 or 0-10 VDC (3 wire)
@ 15-30 VDC supply

Polyurethane molded, vented cable with Kevlar strain relief. Up to 1000 feet.

VL2000



WASTEWATER
4-20mA OUTPUT
FLUSH MOUNT

FEATURES

This submersible transmitter is designed for use in wastewater and pump/lift stations to avoid clogging.

Diameter: 1"

Technology: Ceramic Capacitive

Accuracy: 0.1% or 0.25%

Pressure Ranges:
0 - 50"WC to 0 - 100 psi
Gauge

Output signal:
4-20mA @ 10 to 35 VDC

Polyurethane molded, vented cable with Kevlar strain relief. Up to 1000 feet. FEP cable option.

VL3000



SURFACE WATER
4-20mA OUTPUT
SDI-12 PROTOCOL

FEATURES

This submersible level transmitter is especially designed for surface water applications.

Diameter: 1"

Technology: Ceramic Capacitive or Piezoresistive

Accuracy: 0.1% or 0.25%

Pressure Ranges:
0 - 10"WC to 0 - 300 psi
Gauge or Absolute

Output signal:
4-20mA @ 12 to 40 VDC
SDI-12 Protocol

Polyurethane molded, vented cable with Kevlar strain relief. Up to 500 feet. FEP cable option.

VL4000



GROUND/SEA WATER
4-20mA OUTPUT
TITANIUM

FEATURES

Designed for measurements of ground, surface, waste and sea water. 5 year corrosion warranty.

Diameter: 0.725"

Technology: Piezoresistive

Accuracy: 0.1% or 0.25%

Pressure Ranges:
0 - 50"WC to 0 - 300 psi
Gauge or Absolute

Output signal:
4-20mA @ 10 to 35 VDC
0 - 5 or 0 - 10 VDC also available

Polyurethane molded, vented cable with Kevlar strain relief. Up to 5000 feet. FEP cable option.

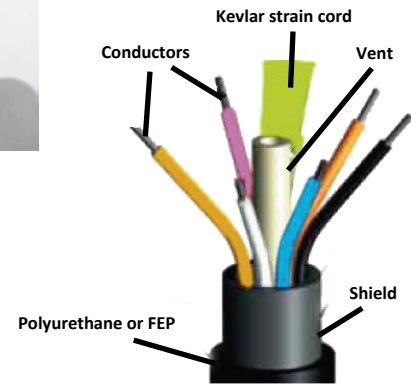
TECHNOLOGY

Some core technology used in our products:

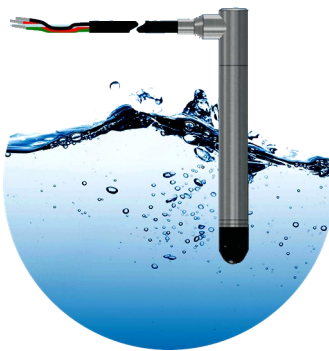
- Piezoresistive Silicon Sensor
- Analog and Digital Communication
- Custom ruggedized cable
- Re-Rangeable and Datalogging
- Ceramic Capacitive Sensor Technology

The sensor element is a high stability piezoresistive silicon chip, physically and electrically isolated from the process media with an isolation diaphragm. Either Stainless Steel 316L or Titanium contact the process media.

The ceramic capacitive element is ideal for waste water applications and very low pressures. It is ideal for flush mount installations to avoid clogging.



VL4563



SEWER PIPES
SIDE ENTRY CABLE
TITANIUM

FEATURES

This side entry cabled transmitter is ideal for use in sewer pipes to minimize flow restrictions and clogging.

Diameter: 0.725"

Technology: Piezoresistive

Accuracy: 0.1% or 0.25%

Pressure Ranges:
0 - 50"WC to 0 - 300 psi
Gauge or Absolute

Output signal:
4-20mA @ 10 to 35 VDC
0 - 5 or 0 - 10 VDC also available

Polyurethane molded, vented cable with Kevlar strain relief. Up to 5000 feet.

VL5000



GROUND/WASTE WATER
HIGH ACCURACY
4-20mA OUTPUT

FEATURES

Ideal in long term monitoring of wells or applications requiring high performance and reliability. 5 year corrosion warranty.

Diameter: 0.95"

Technology: Piezoresistive

Accuracy: $\leq \pm 0.05\%$

Pressure Ranges:
0 - 20"WC to 1000 psi
Gauge or Absolute

Output signal:
4-20mA @ 9 - 33 VDC (2 wire)
0 - 5 or 0 - 10 VDC (3 wire)

Polyurethane molded, vented cable with Kevlar strain relief. Up to 5000 feet. FEP cable option.

VL5005



GROUND/TANK LEVEL
DUAL OUTPUT
TITANIUM

FEATURES

This submersible transmitter provides dual output for both level and temperature. 5 year corrosion warranty.

Diameter: 0.95"

Technology: Piezoresistive

Accuracy: $\leq 0.1\%$ or $\leq 0.25\%$ for pressure. 0.5°F for temperature

Pressure Ranges:
0 - 20"WC to 0 - 1000 psi
Gauge or Absolute
Temperature Range: 25 - 175°F

Output signal:
Dual 4-20mA, 3 or 4 wire

Polyurethane molded, vented cable with Kevlar strain relief. Up to 5000 feet. FEP cable option.

VL5270



SURFACE/SEA WATER
HIGH TEMPERATURE
TITANIUM

FEATURES

Ideal for long term monitoring where water temperatures may be as high as 250°F. 5 year corrosion warranty.

Diameter: 0.95"

Technology: Piezoresistive

Accuracy: 0.1%
0.05% & 0.25% available

Pressure Ranges:
0 - 50"WC to 0 - 300 psi
Gauge or Absolute

Output signal:
4-20mA @ 9 - 33 VDC (2 wire)
0 - 5 VDC standard (3 wire)

FEP (300°F rated) vented cable with Kevlar strain relief. Up to 1000 feet.

APPLICATIONS



VL-SMT



WATER/TANK LEVEL
SMART HART® PROTOCOL
REMOTE SENSOR

FEATURES

This SMART transmitter separates the electronics from the sensor and features a minimum of 4:1 turn down.

Diameter: 1" Transmitter

Technology: Ceramic Capacitive

Accuracy: ±0.25%

Pressure Ranges:
0 - 5"WC to 0 - 300 psig
0 - 15 psia to 0 - 150 psia
Compound and Vacuum Ranges

Output signal:
4-20mA ,(2 wire), & SMART
Hart® Protocol Revision 5

Polyurethane molded, vented
cable with Kevlar strain relief.

ATM/NC



CHEMICAL APPLICATIONS
KYNAR HOUSING
4-20mA or VOLT OUTPUT

FEATURES

This submersible transmitter is specifically designed for level monitoring in chemical tanks.

Diameter: 1.1"

Technology: Piezoresistive

Accuracy: 0.5% or 1.0%

Pressure Ranges:
0 - 40"WC to 0 - 360 psi
Gauge or Absolute

Output signal:
0 - 5 VDC @ 10 to 30 VDC
0 - 10 VDC @ 15 to 30 VDC
4-20mA @ 9 to 33 VDC

Chemical resistant PVDF
(KYNAR®) Housing
FEP cable up to 5000 feet.

ATM/N/IS



HAZARDOUS LOCATIONS
4-20mA OUTPUT
FM/CSA/ATEX CERTIFIED

FEATURES

This submersible transmitter is designed for monitoring level in hazardous locations especially for tank level.

Diameter: 0.94"

Technology: Piezoresistive

Accuracy: 0.1% or 0.25%

Pressure Ranges:
0 - 20"WC to 0 - 360 psi
Gauge or Absolute

Output signal:
4-20mA @ 10 TO 30 VDC
Approved for FM/CSA/ATEX
Class 1, Div.1, Cat. A,B,C,D

Polyurethane molded, vented
cable with Kevlar strain relief.
FEP cable option.

Customized Sensors



BAROMETRIC
DIFFERENTIAL PRESSURE
TOP SIDE PRESSURES

OTHER PRODUCTS

PMC/STS offers associated products including data loggers and display panels. Contact the factory for more information.



ACCESSORIES

Dri-Box Termination Enclosure



Vent Fitting



Moisture Protection Vent Filter



Surge Protector (Lightning Arrestor)



Digital Process Meter



Moisture Protection Reference Volume



Cable Hanger



Sink Weight



Dri-Box Desiccant Module



Calibration Adapter



FEATURES

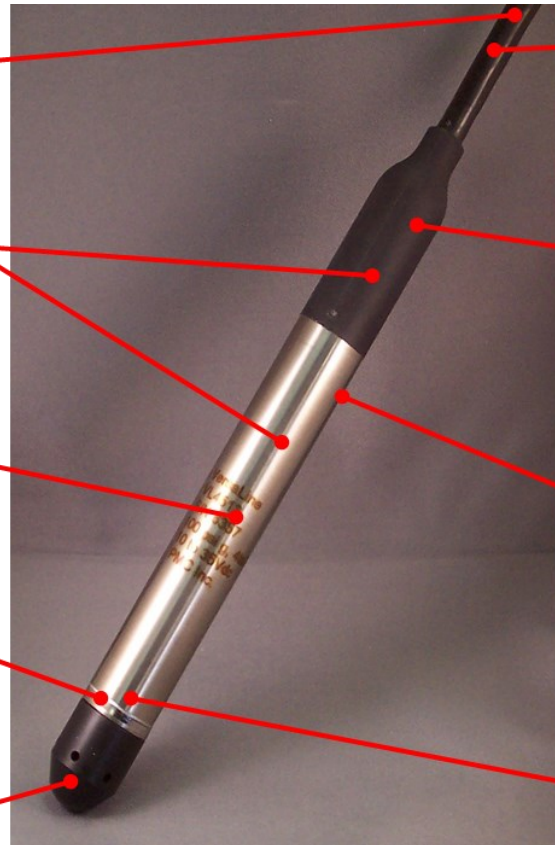
Breather connected directly to sensor reference to ensure ideal performance

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® 200 lb breaking strain retention

Injection-Molded Cable Seal eliminates water ingress

As small as 0.39 inch diameter for installation into small diameter bore holes

Piezoresistive Technology provides High Accuracy and good Long Term Stability

COMPANY PROFILE

Based in Danbury, CT, PMC-STS, Inc. provides an extremely broad range of pressure transmitters and transducers for the North American market. With manufacturing both in Switzerland and the United States, this combination provides our customers with Swiss precision and on-time deliveries, in addition to very knowledgeable and experienced US-based personnel. The company goals are to become the market leader by pursuing a consistent niche market strategy, providing industry with innovative solutions, and maintaining our policy of continual product development.



STS is an internationally recognized company specializing in the design and manufacture of high performance sensors specifically for the measurement of pressure, temperature and level. Its headquarters and main manufacturing facilities are in Sirnach, Switzerland. STS has been developing solutions for customer specific applications since 1987. It manufactures both individual sensors and entire systems primarily in the field of pressure measurement. Its products are based on highly developed Piezoresistive technology with significant market success in applications including gas/oil exploration and transmission, offshore/subsea, shipbuilding, surface/ground water, environmental and a wide range of test applications, particularly in the automotive and aerospace sectors.



Specifications may change without notice

STS is registered ISO 9001:2008

DL.603



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