

## Model SST

### Slim-Line Submersible Transmitter



The Model SST Submersible Level Transmitter provides the same high quality level measurement capability as our other level products, but in a smaller package.

The 0.69 inch diameter housing allows the unit to fit into small bore applications. The simple design and rugged construction of this solid state instrument provide long lasting service with virtually no maintenance.

The Model SST Transmitter indicates the level of liquid by continuously measuring hydrostatic pressure via its sensing element, an ion implanted silicon semiconductor chip with integral Wheatstone Bridge circuit. Once the sensor measures the pressure, the data is transmitted by a 4 to 20 mA output signal. This design provides for excellent linearity and repeatability, low hysteresis and long term stability.

The Model SST is easy to install, too. Simply lower the transmitter into a vessel or well. It's that easy. All the electronics are mounted in a submersible 316 stainless steel housing.

The transmitter is available calibrated for any span needed, from:

- 0 - 15 psi or 0 - 1 bar  
(0 - 34.6 feet or 0 - 10.5 meters of water) to
- 0 - 150 psi or 0 - 10 bar  
(0 - 345 feet or 0 - 105 meters of water).

#### Convenient To Use

- 0.69 inch diameter to fit in small bore systems
- Solid state semiconductor sensor provides accuracy and reliability
- Two wire 4-20mA output

#### Protection For Any Location

- Rugged 316 stainless steel housing with excellent environmental protection
- Removable snubnosed end protects sensing element
- Reverse polarity and surge protected
- Vented to atmosphere through surface end of cable

#### Available For Many Applications

- Small Bore
- Tanks
- Rivers
- Water wells
- Flood Channels
- Ponds
- Lakes
- Landfills



# Continuous Level Measurement

## Model SST Series

### Specifications

**Feet Of Water\*:** 0/35, 0/69, 0/138, 0/230, 0/345

**Meters Of Water\*:** 0/10.5, 0/21, 0/42, 0/70, 0/105

**Bar\*:** 0/1, 0/2, 0/4, 0/7, 0/10

**Psi\*:** 0/15, 0/30, 0/60, 0/100, 0/150

**Output:**

4-20 mA, 2 Wire, Current Limited to 30 mA DC

**Power Supply:**

11 to 30 VDC with Reverse Polarity Surge Protection

**Loop Resistance:**

900 Ohms Maximum

**Temperature Range:**

Ambient Operating: -13° to 167° F (-15° to 75° C)  
Liquids Only—Media Must Not Freeze

**Overrange Effect:** 200% Of Maximum Range

**Burst Pressure:** 300% Of Maximum Range

**Total Error Band:** +1% Full Scale

**1 Year Stability:** <0.5% Full Scale

**Accuracy:**

+0.3% Full Scale, Bfsl (Including Linearity, Hysteresis and Repeatability); +0.50% Full Scale (6 Psi Range Only)

**Temperature Effects:**

Compensated: 32° to 122° F (0° to 50° C)

**Power Supply Effect:**

+0.005% Full Scale per Volt

**Construction:**

Diaphragm: Type 316 L SS

Housing Type: 316 SS

Nut/washer Type: 316 SS

Cable Grommet: Viton

Housing O Ring: Viton

Cable Jacket: Polyurethane

Snub Nose: Delrin, 9/16-18 Thread (Removeable)

**Electrical Connection:**

Attached 22 Gauge Polyurethane Shielded Cable with Breathing Vent Tube. Unspliced Lengths Available Up to 5000 ft. (1662 m)

**Weight:**

8 Oz. (227 g) Max.

(Transmitter Only, Does Not Include Cable)

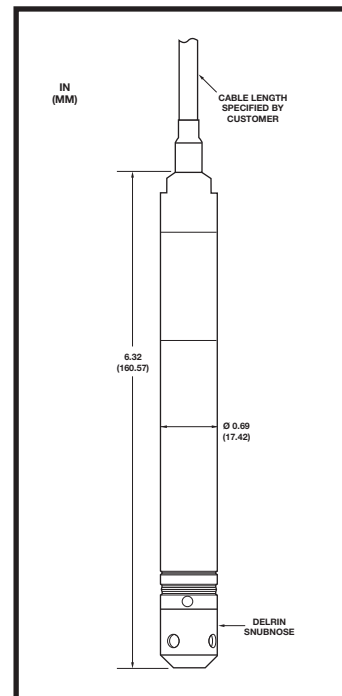
**\* Please contact the factory for other ranges**

### Model Numbering

<b>SST level transmitter</b>	
<b>SST</b>	Slim-line submersible level transmitter
<b>Sensing port</b>	
<b>S</b>	9/16-18 thread with Delrin snubnose
<b>Input/Output</b>	
<b>B</b>	11 to 30 VDC/4 to 20 mA
<b>Pressure ranges*</b>	
<b>XXXX</b>	Pressure range in psig
<b>BXXX</b>	Pressure range in barg
<b>0006</b>	0 to 6 psi/0 to 0.4 bar (0 to 14 ft./0 to 4.2 m water)
<b>0015</b>	0 to 15 psi/0 to 1 bar (0 to 34 ft./0 to 10.5 m water)
<b>0030</b>	0 to 30 psi/0 to 2 bar (0 to 69 ft./0 to 21.1 m water)
<b>0060</b>	0 to 60 psi/0 to 4 bar (0 to 137 ft./0 to 42.2 m water)
<b>0100</b>	0 to 100 psi/0 to 7 bar (0 to 230 ft./0 to 70.3 m water)
<b>0150</b>	0 to 150 psi/0 to 10 bar (0 to 345 ft./0 to 105.4 m water)
<b>Electrical connection**</b>	
<b>N</b>	Nut (standard)
<b>Diaphragm material</b>	
<b>L</b>	316L stainless steel (standard)
<b>Fill fluid</b>	
<b>S</b>	Silicon oil (standard)
<b>Grommet material</b>	
<b>V</b>	Viton® (standard)
<b>Cable length (K515072)</b>	
<b>(100)</b>	Specify length in feet

\* Please contact the factory for other ranges.  
\*\* Please contact the factory for electrical connection options.

### Dimensions



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