

Model SST

Slim-Line Submersible Level Transmitter



Description

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 an integral Wheatstone Bridge. Once the sensor measures the pressure, the data is transmitted by a 4 to 20 mA two wire 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 to 15 psi or 0 to 1 bar (0 to 34 feet or 0 to 10.5 meters of water) to 0 to 150 psi or 0 to 10 bar (0 to 345 feet or 0 to 105 meters of water).

Features

- 0.69 inch diameter to fit in small bore systems
- Solid state semiconductor sensor for accuracy and reliability
- Rugged 316 stainless steel diaphragm and housing with excellent environmental protection
- Easy to install and use
- Removable, nonclogging snubnose end protects sensing elements
- 2 wire 4 to 20 mA output
- Vented to the atmosphere through the surface end of the cable
- Reverse polarity, surge, and lightning protection
- Anti-snap feature for easy probe removal

Applications

- Small bore applications
- Tanks
- Ponds
- Rivers
- Lakes
- Water wells
- Landfills
- Flood channels

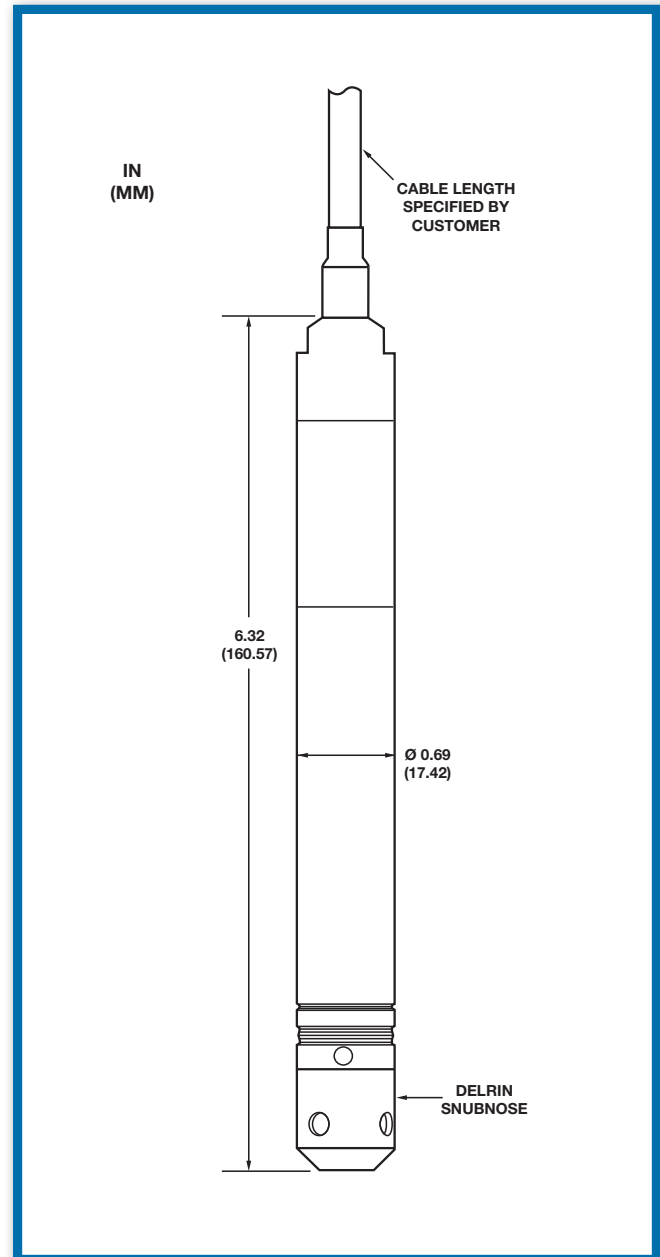
Model SST Slim-Line Submersible Level Transmitter

Specifications

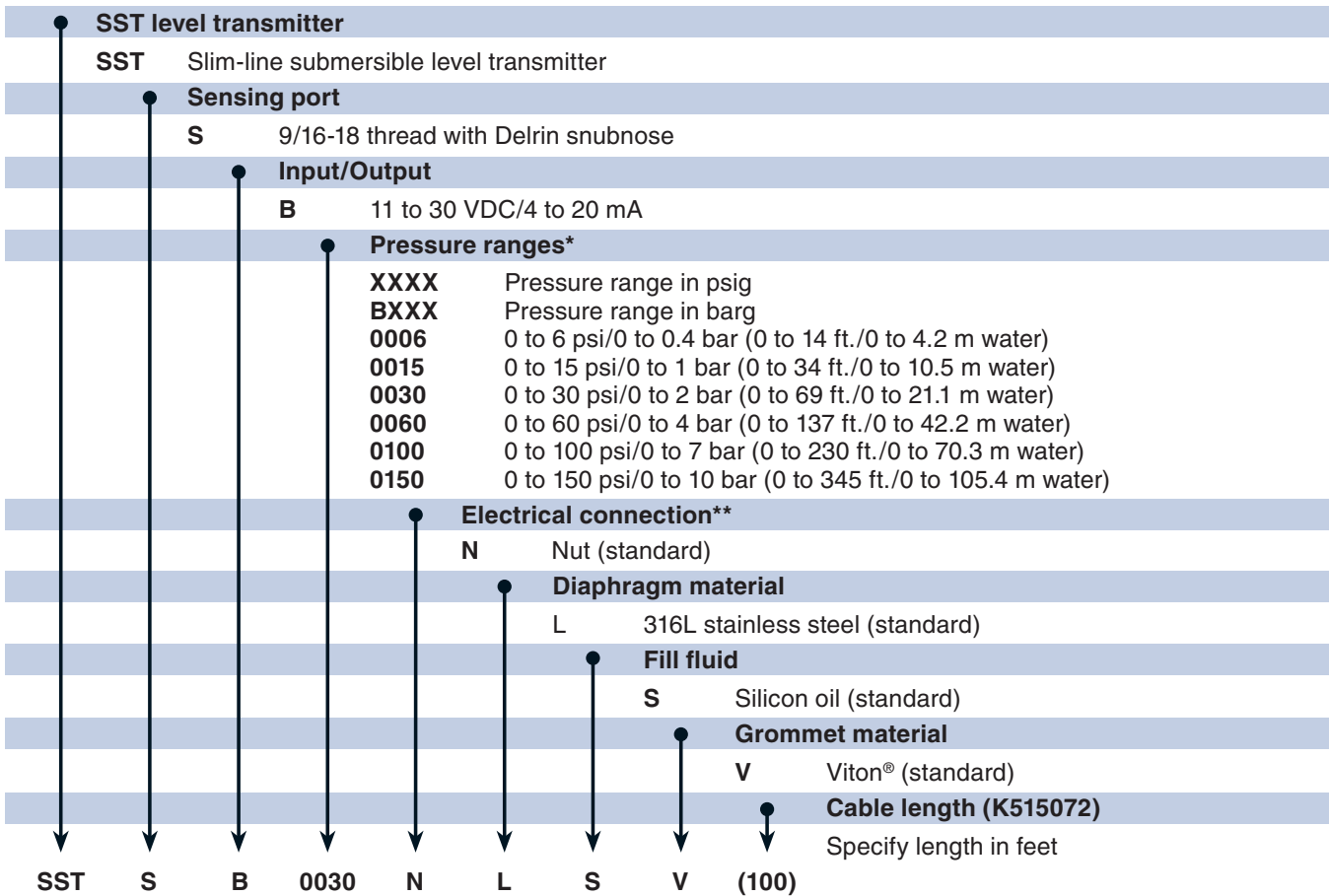
- **Feet of Water***: 0/34, 0/69, 0/138, 0/230, 0/345
- **Meters of Water***: 0/10.5, 0/21, 0/42, 0/70, 0/105
- **Bar***: 0/1, 0/2, 0/4, 0/7, 0/10
- **PSI***: 0/15, 0/30, 0/60, 0/100, 0/150
- **Output**: 4 to 20 mA, 2 wire, current limited to 30 mA DC
- **Power Supply**: 11 to 30 VDC with reverse polarity surge protection
- Loop Resistance: 900 ohms maximum
- **Temperature Range**:
Ambient Operating: -13° to 167°F (-15° to 75°C)
for liquids, media must not freeze
- Burst Pressure: 150% of full scale
- **Total Error Band**: ±1% full scale (includes null and span set and temperature effects) over compensated temperature range 32° to 122°F (0° to 50°C)
- **1 Year Stability**: <0.25% full scale
- **Accuracy**: ±0.3% full scale, BFSL (including linearity, hysteresis and repeatability)
- **Power Supply Effect**: ±0.005% full scale per volt with reverse polarity and lightning protection
- **Atmospheric Reference (through integrated vent tube)**: Please vent to clean, dry environment
- **Construction**:
Diaphragm: Type 316L stainless steel
Housing Type: 316 stainless steel
Nut/Washer Type: 316 stainless steel
Cable Grommet: Viton®
Cable Jacket: Polyurethane
Snub Nose: Delrin, 9/16-18 thread (removable)
- **Media Compatibility**: Reference materials of construction
- **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)
- **Option**: SJB-100 junction box with desiccant

* Please contact the factory for other ranges.

Dimensions



Model Numbering:



* Please contact the factory for other ranges.

**Please contact the factory for electrical connection options.

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