

Well Watcher™ 751 Series

Slim-Line Submersible Transmitter



The Model 751 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 751 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 751 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
- Flood Channels
- Tanks
- Ponds
- Rivers
- Lakes
- Water wells
- Landfills



Continuous Level Measurement

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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 316l 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)

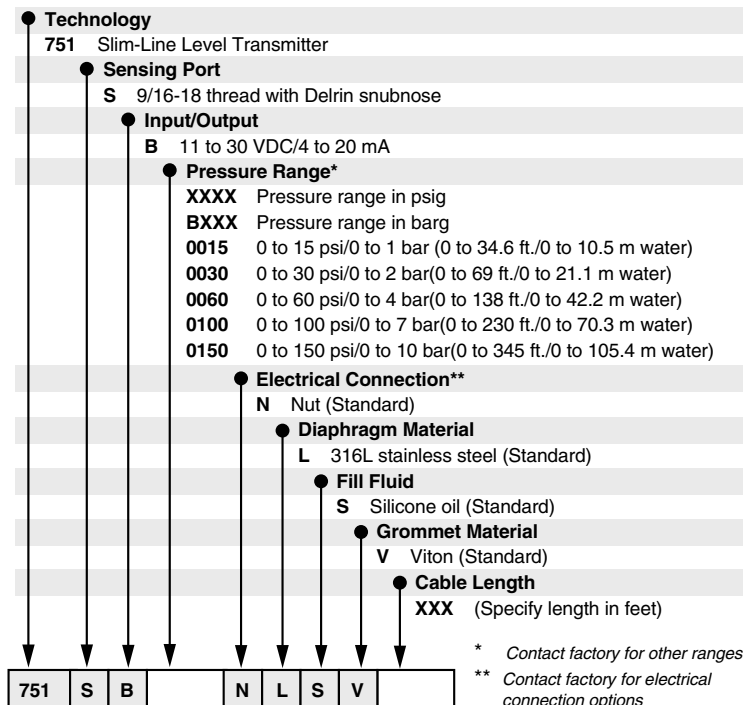
Weight:

8 Oz. (227 g) Max.

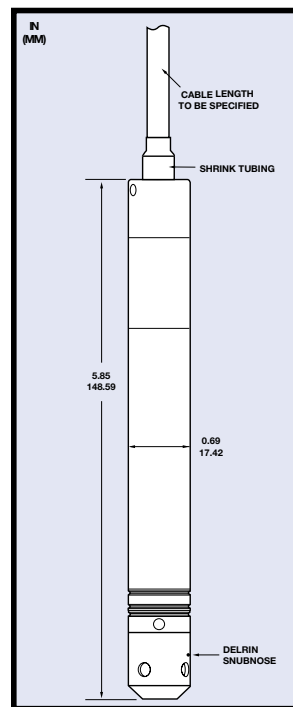
(Transmitter Only, Does Not Include Cable)

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

Model Numbering



Dimensions



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