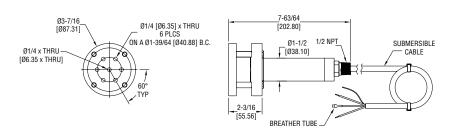


Series PBLT2 Submersible Level Transmitter

Specifications - Installation and Operating Instructions





The PBLT2 Submersible Level Transmitter is manufactured for years of trouble free service in the harshest applications. The PBLT2 measures the height of liquid above its position in the tank referenced to atmospheric pressure. The transmitter consists of a piezoresistive sensing element, encased in a 316 SS housing. Perfect for wastewater and slurry applications with features to protect the unit from these demanding applications. Superior lightning and surge protection utilizing dual arrestor technology, grounded to case, eliminating both power supply surges and lightning ground strike transients. Large diameter 316 SS diaphragm seal is nonclogging and damage resistant to floating solids.

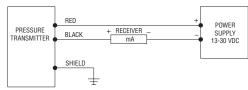
Comes equipped with a 270-pound tensile strength, shielded, vented cable. Ventilation tube in the cable automatically compensates for changes in atmospheric pressure above the tank. The vent tube has a filter attached to the end that will block particles, such as dust, dirt, and water droplets, from entering the tube.

APPLICATIONS

• Wastewater: sludge pits, clarifiers, digesters; Alum tanks; Chemical storage tanks; Oil tanks; Lime slurry; Sumps; Reservoirs

ELECTRICAL INSTALLATION

An external power supply delivering 13-30 VDC with minimum current capability of 40 mA DC (per transmitter) is required to power the control loop. See figure below for connection of the power supply, transmitter and receiver.



The maximum receiver load resistance (RLmax) for the DC power supply voltage (Vsup) is expressed by the formula:

$$RLmax = \underline{Vsup - 13V}$$

Shielded cable is recommended for control loop wiring.

SPECIFICATIONS

Service: Compatible liquids.

Wetted Materials: 316 SS, 316L SS, Buna-N, cable: ETFE or

polyurethane.

Accuracy: ±.25% full scale.

Temperature Limits: 0 to 200°F (-18 to 93°C).

Compensated Temperature Range: 0 to 180°F (-18 to 82°C).

Thermal Effect: Less than ±.02%/°F.

Pressure Limit: 2X full scale.

Power Requirement: 13 to 30 VDC. **Output Signal:** 4 to 20 mA DC, two wire.

Response Time: 50 msec.

Loop Resistance: 850 ohms at 30 VDC. **Electrical Connection:** Wire pigtail.

Mounting Orientation: Suspended in tank below level being measured. Can be placed on the bottom of the tank on its side.

Weight: 4.3 lb (2.0 kg).

Electrical Protection: Lightning and surge protection.

Model Number Guide:

Example	PBLT2	20	40		PBLT2-20-40
Construction	PBLT2				Cage style submersible level transmitter, ETFE cable
Range		XXX			In psi (5000 psi maximum)
Cable Length			XXX		In feet (1500 feet maximum)
Options				PU	Polyurethane cable

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