Series PBLT2 & PBLTX

Submersible Level Transmitters



PBLT2



PBLTX (ATEX option available)

Features/Benefits

- Meet application requirements with durable cage design with large diameter 316 SS diaphragm seal that is non-clogging and damage resistant to floating solids
- Increased life with lightning and surge protection utilizing dual arrestor technology, grounded to case, eliminating both power supply surges and lightning ground strike transients (surge protection is not guaranteed and is not covered by warranty) on PBLT2 models
- Eliminates particulate or water droplets from entering the transducer using maintenance-free filter
- Peace of mind with UL approved intrinsically safe on PBLTX models for use in hazardous locations when used with proper barrier
- Decrease ownership cost with durable, 270 lb tensile strength shielded and vented cable and excellent chemical compatibility
- Flexible installation options with NPT connection to rigidly install in a pipe/conduit or use a A-625 hanging loop to attach a chain to remove from the installation
- Minimal downtime with standard 72 hour lead time

Applications

- Wastewater
- Sludge pits, clarifiers, digesters
- Alum tanks
- Chemical storage tanks
- Oil tanks
- Lime slurry
- Sumps
- Reservoirs

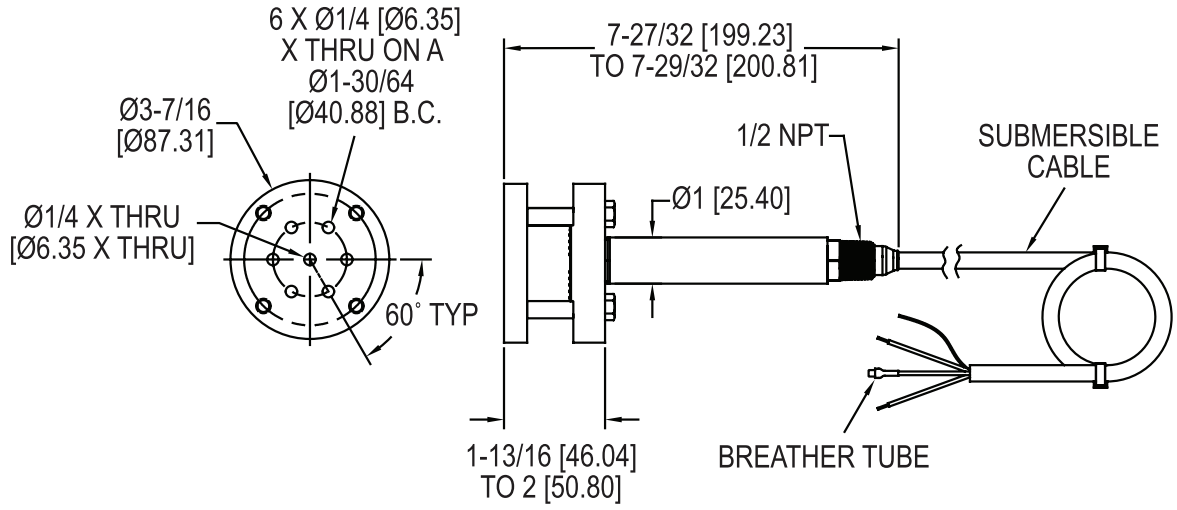
Description

The **Series PBLT2 & PBLTX Submersible Level Transmitters** are manufactured for years of trouble free service in the harshest applications. This Series measures the height of liquid above the position in the tank referenced to atmospheric pressure. The transmitter consists of a piezoresistive sensing element, encased in a 316 SS housing with cage and large diameter 316 SS diaphragm seal.

Specifications

Service	Compatible liquids.
Wetted Materials	Body: 316 SS, 316 L SS; Cable: Polyether polyurethane or ETFE; Seals: Fluoroelastomer.
Accuracy	±0.25% FS (includes linearity, hysteresis, and repeatability)*.
Temperature Limit	PBLT2: 0 to 200°F (-18 to 93°C); PBLTX: ETFE -4 to 176°F (-20 to 80°C); Polyurethane: -4 to 149°F (-20 to 65°C).
Compensated Temperature Range	PBLT2: 0 to 180°F (-18 to 82°C); PBLTX: 0 to 176°F (-18 to 80°C).
Thermal Effect	±0.02% FS/°F.
Pressure Limit	2X FS.
Power Requirement	PBLT2: 13-30 VDC; PBLTX: 10-20 VDC.
Output Signal	4-20 mA DC, 2-wire.
Response Time	50 ms.
Loop Resistance	900 Ω.
Electrical Connection	Wire pigtail.
Mounting Orientation	Suspended in tank below level being measured.
Electrical Protection	PBLT2: Lightning and surge protection; PBLTX: None.
Weight	3.8 lb (1.7 kg) to 4.3 lb (2.0 kg).
Compliance	PBLT2: CE, UKCA; PBLTX: CE, UKCA, cULus intrinsically safe for Class I, Div. 1, Groups A, B, C, D; Class II, Div. 1, Groups E, F, G; Class III, Div. 1; ATEX: II 1 G Ex ia IIC T4 Ga and II 1 D Ex ia IIIC T135C Da (According to control drawing 01833-44)**.
*Configured ranges below 5 psi (11.54 ft w.c.) (3.52 m w.c.) ±1% FS accuracy.	
**Up to 275′ (83.8 m) for ETFE cable; Up to 470′ (143.3 m) for polyurethane cable.	

Dimensions



PBLT2/PBLTX

How to Order

Use the **bold** characters from the chart below to construct a product code.

PBLT2 **-5** **-40** **-PU** **-ATEX**

Series

PBLT2: Submersible level transmitter
PBLTX: Submersible level transmitter (intrinsically safe)

*Range psi (ft w.c.) [m w.c.]

-5: 5 (11.54) [3.52]
-10: 10 (23.09) [7.04]
-15: 15 (34.63) [10.56]
-20: 20 (46.18) [14.08]
-3.5M: 4.97 (11.48) [3.5]
-5M: 7.11 (16.40) [5]
-10M: 14.21 (32.81) [10]

*Additional pressure ranges available, consult factory

Options

-ATEX: ATEX intrinsically safe

Cable Type

BLANK: ETFE
-PU: Polyurethane

**Cable Length ft (m)

-40: 40 (12.2)
-60: 60 (18.3)
-5M: 16.40 (5)
-10M: 32.81 (10)
-18M: 59.06 (18)

**Configured cable lengths available from 10 to 2000 ft (3 to 610 m)

Accessories

Model	Description
A-297	Dessicant filter for vent tube. Removes humidity for protection of the sensor. Changes color to show saturation 316 SS cable hanger for attaching chain for easy pulling out of application
A-625	
MTL5041	Intrinsically safe galvanic isolator
MTL7706	Intrinsically safe zener barrier

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