

# FLUSH TIP SUBMERSIBLE LEVEL TRANSMITTERS

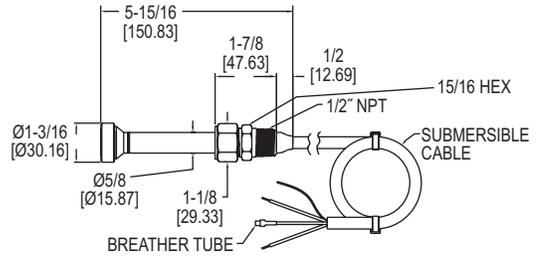
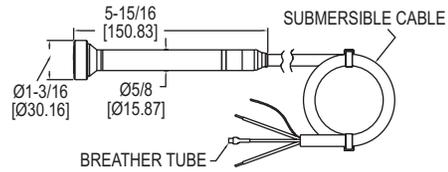
Perfect for Sludge and Slurries, Lightning Protected, ±0.25% Accuracy, Slim Body



FBLT



FBLT with NPT option



NPT option

The Series FBLT Flush Tip Submersible Level Transmitters measure 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 narrow 316 SS housing with PTFE coated flush diaphragm tip.

**FEATURES/BENEFITS**

- Flush diaphragm tip will not clog in harsh applications
- Maintenance free filter eliminates particulate or water droplets from entering the transducer
- Comes with a choice of polyether polyurethane or ETFE cable materials for excellent chemical compatibility
- Incorporates lightning and surge protection, eliminating both power supply surges and lightning ground strike transients (surge protection is not guaranteed and is not covered by warranty)
- Narrow body design allows the FBLT to fit into stilling wells and narrow installations
- Robust FKM fluoroelastomer diaphragm that is PTFE coated for a stick resistant surface holds up in aggressive fluids
- Diaphragm cavity is filled with a gel that will not leak out versus oil or grease
- Optional NPT connection allows the unit to be rigidly installed in a pipe/conduit, or the addition of the A-625 hanging loop for attaching a chain for pulling out of the installation

**APPLICATIONS**

- Sewage lift stations
- Industrial slurries
- Industrial sumps
- Landfill leachate
- Reservoirs
- Sludge pits
- Oil tanks

MODEL CHART			
Model	Range psi (' w.c.) [m w.c.]	Cable Length	Cable Type
FBLT-2SC-IVPF-10-20*	4.33 (10) [3.05]	20'	Polyurethane
FBLT-2SC-IVPF-10-30*	4.33 (10) [3.05]	30'	Polyurethane
FBLT-2SC-IVPP-5-40	5 (11.54) [3.52]	40'	Polyurethane
FBLT-2SC-IVPF-10-40*	4.33 (10) [3.05]	40'	Polyurethane
FBLT-2SC-IVPF-15-40	6.50 (15) [4.57]	40'	Polyurethane
FBLT-2SC-IVPF-20-40	8.66 (20) [6.10]	40'	Polyurethane
FBLT-2SC-IVPF-30-50	12.99 (30) [9.14]	50'	Polyurethane
FBLT-2SC-IVPE-5-40	5 (11.54) [3.52]	40'	ETFE
FBLT-2SC-IVEF-15-40	2.82 (15) [4.57]	40'	ETFE
FBLT-2SC-IVEF-20-40	8.66 (20) [6.10]	40'	ETFE
FBLT-2SC-IVEF-30-50	12.99 (30) [9.14]	50'	ETFE
FBLT-2SC-IVPE-10-40	10 (32.09) [7.04]	40'	ETFE
FBLT-2SC-IVPE-15-60	15 (34.63) [10.56]	60'	ETFE
FBLT-2SC-IVPP-10-40	10 (32.09) [7.04]	40'	Polyurethane
FBLT-2SC-IVPP-10-60	10 (32.09) [7.04]	60'	Polyurethane
FBLT-2SC-IVPP-15-60	15 (34.63) [10.56]	60'	Polyurethane
FBLT-2SC-IVPF-35-60	15.16 (35) [10.67]	60'	Polyurethane
FBLT-2SC-IVPP-20-60	20 (196.85) [60]	60'	Polyurethane

\*4.3 to 4.9 psi (10 to 11.54 in w.c.) configured ranges ±0.30% FS accuracy

**Note:** Cables can be ordered shorter or longer in polyurethane or ETFE. Other ranges are available and can be ordered in psi, ft w.c., or m w.c. Please see website.

**SPECIFICATIONS**

**Service:** Compatible liquids.  
**Wetted Materials:** Body: 316 SS; Cable: Polyether polyurethane or ETFE; Diaphragm: PTFE coated FKM fluoroelastomer; Label: Polyethylene polyamid.  
**Accuracy:** ±0.25% FS (10' w.c. range is ±0.30% FS).  
**Temperature Limits:** -4 to 176°F (-20 to 80°C).  
**Compensated Temperature Limits:** 32 to 140°F (0 to 60°C).  
**Thermal Effect:** ±0.0075%/°F (±0.0135%/°C).  
**Pressure Limit:** 2x range.  
**Power Requirements:** 10 to 33 VDC.  
**Output Signal:** 4 to 20 mA DC 2-wire.  
**Response Time:** < 50 ms.  
**Max Loop Resistance:** 1000 Ω @ 30 VDC.  
**Electrical Connections:** Wire pigtail.  
**Mounting Connection:** Suspended below point being monitored.  
**Electrical Protection:** Surge/lightning protected per EN61000-4-5, Class 5.  
**Weight:** Body: 0.3 lb (0.136 kg); Cable: 0.037 lb (0.017 kg) per foot.  
**Agency Approvals:** CE.

**OPTIONS**

To order add suffix:	Description
-NPT	1/2" NPT connection to connect conduit, piping, or cable hanger. All 316 SS
-FC	Factory calibration certificate

**Example:** FBLT-2SC-IVPF-20-40-FC

**ACCESSORIES**

Model	Description
A-297	Dessicant filter for vent tube. Removes humidity for protection of the sensor. Changes color to show saturation
A-625	316 SS cable hanger use with NPT option for attaching chain for easy pulling out of application



A-297

A-625

Level Transmitters, Submersible