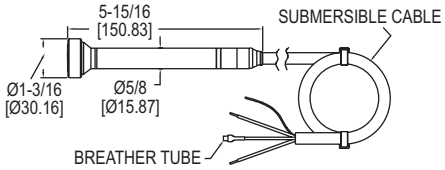
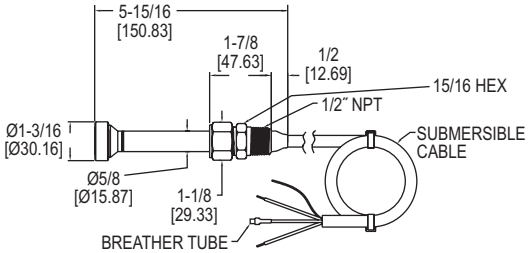
FLUSH TIP SUBMERSIBLE LEVEL TRANSMITTERS

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

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.

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-IVEP-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-IVEP-10-40	10 (32.09) [7.04]	40´	ETFE
FBLT-2SC-IVEP-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.

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