

# FLUSH TIP SUBMERSIBLE LEVEL TRANSMITTERS

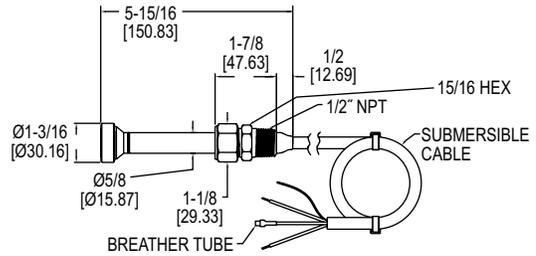
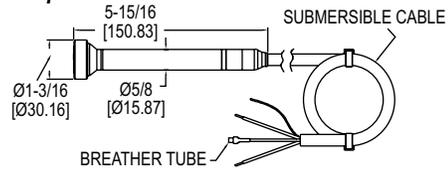
Perfect for Sludge and Slurries, Lightning Protected,  $\pm 0.25\%$  Accuracy, Slim Body



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.

**BENEFITS/FEATURES**

- Long operating life with a non-clog flush diaphragm tip for harsh applications
- Eliminates particulate or water droplets from entering the transducer using maintenance-free filter
- Suits harsh environments with choice of polyether polyurethane or ETFE cable materials for excellent chemical compatibility
- 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)
- Meet application requirements with narrow body design allows the FBLT to fit into stilling wells and narrow installations
- Unit holds up in aggressive fluids with robust FKM fluoroelastomer diaphragm that is PTFE coated for a stick-resistant surface
- Avoid product leaks typically cause by oil or grease with diaphragm cavity that is filled with gel
- Flexible installation options with NPT connection to rigidly install in a pipe/conduit or use the A-625 hanging loop to attach a chain to remove from 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-20-40	8.66 (20) [6.10]	40'	Polyurethane
FBLT-2SC-IVPF-30-50	12.99 (30) [9.14]	50'	Polyurethane
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-IVPEP-10-40	10 (32.09) [7.04]	40'	ETFE
FBLT-2SC-IVPEP-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  $\pm 0.30\%$  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:**  $\pm 0.25\%$  FS (10' w.c. range is  $\pm 0.30\%$  FS).  
**Temperature Limits:** -4 to 176°F (-20 to 80°C).  
**Compensated Temperature Limits:** 32 to 140°F (0 to 60°C).  
**Thermal Effect:**  $\pm 0.0075\%/^{\circ}\text{F}$  ( $\pm 0.0135\%/^{\circ}\text{C}$ ).  
**Pressure Limit:** 2x range.  
**Power Requirements:** 10-33 VDC.  
**Output Signal:** 4-20 mA DC 2-wire.  
**Response Time:** < 50 ms.  
**Max Loop Resistance:** 1000  $\Omega$  @ 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.  
**Compliance:** CE.

**OPTIONS**

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

**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