

# FLUSH TIP SUBMERSIBLE LEVEL TRANSMITTER

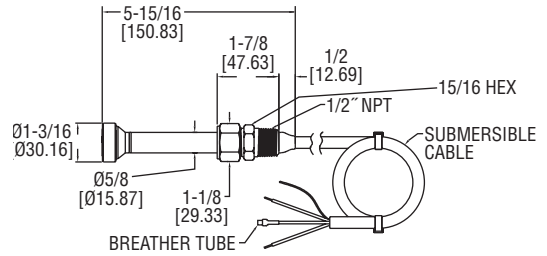
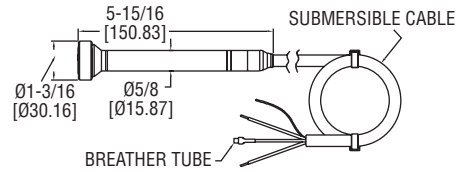
Perfect for Sludge and Slurries, Lightning Protected,  $\pm 0.25\%$  Accuracy, Slim Body



FBLT



FBLT with NPT Option



NPT Option

The **SERIES FBLT** Flush 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  $\pm 0.30\%$  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	
<b>Service:</b>	Compatible liquids.
<b>Wetted Materials:</b>	Body: 316 SS; Cable: Polyether polyurethane or ETFE; Diaphragm: PTFE coated FKM fluoroelastomer; Label: Polyethylene polyamid.
<b>Accuracy:</b>	$\pm 0.25\%$ FS (10' w.c. range is $\pm 0.30\%$ FS).
<b>Temperature Limits:</b>	-4 to 176°F (-20 to 80°C).
<b>Compensated Temperature Limits:</b>	32 to 140°F (0 to 60°C).
<b>Thermal Effect:</b>	$\pm 0.0075\%/^{\circ}\text{F}$ ( $\pm 0.0135\%/^{\circ}\text{C}$ ).
<b>Pressure Limit:</b>	2x range.
<b>Power Requirements:</b>	10 to 33 VDC.
<b>Output Signal:</b>	4 to 20 mA DC 2-wire.
<b>Response Time:</b>	< 50 ms.
<b>Max Loop Resistance:</b>	1000 $\Omega$ @ 30 VDC.
<b>Electrical Connections:</b>	Wire pigtail.
<b>Mounting Connection:</b>	Suspended below point being monitored.
<b>Electrical Protection:</b>	Surge/lightning protected per EN61000-4-5, Class 5.
<b>Weight:</b>	Body: 0.3 lb (0.136 kg); Cable: 0.037 lb (0.009 kg) per foot.
<b>Agency Approvals:</b>	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



Level Transmitters, Submersible