

SERIES MBLT | MINIATURE SUBMERSIBLE LEVEL TRANSMITTER

FEATURES/BENEFITS

- Slender 0.63" (16 mm) diameter design fits in narrow openings
- Constructed for years of trouble free service with welded 316 SS body and 316 SS nose cap
- Body top is 316 SS and tapered to prevent damage or snares when pulling the unit out of the installation
- Low power voltage output models are ideal for remote level monitoring with rechargeable battery and solar panel
- Maintenance free filter on vent tube eliminates particulate water droplets from entering the transducer
- Incorporates lightning and surge protection, eliminating both power supply surges and lightning ground strike transients

APPLICATIONS

- Ballast tanks
- Ground water monitoring
- Surface water monitoring
- Dewatering
- Down hole/Bore hole
- Remote telemetry
- Remote flood monitoring
- Narrow conduit or pipe installations
- Remediation and environmental monitoring

DESCRIPTION

The **SERIES MBLT** Miniature Submersible Level Transmitters measure the height of liquid above the position in the tank referenced to atmospheric pressure. The transmitter consist of a piezoresistive sensing element, encased in a 0.63" (16 mm) diameter 316 SS housing. Voltage output units operate with 8 VDC of power.

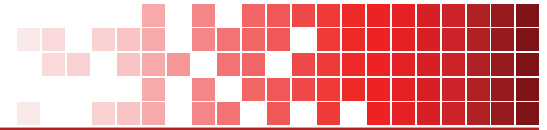


Low Power
Models
Available

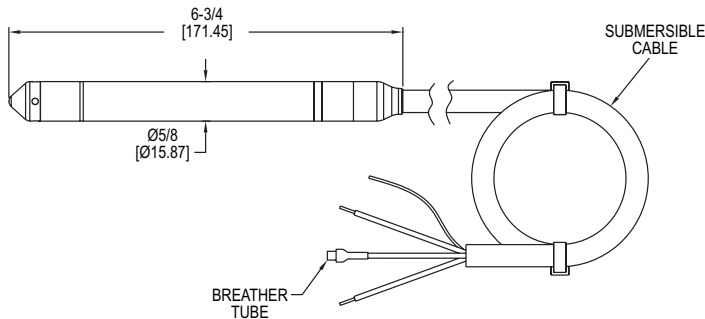
SPECIFICATIONS

Service	Compatible liquids.
Wetted Materials	Body and nose: 316 SS; Cable: Polyether polyurethane or ETFE; Seals: Fluoroelastomer; Label: Polyolefin.
Accuracy	±0.25% or ±0.10% FS. 4.3 to 4.9 psi (10 to 11.54 in w.c.) configured ranges are ±0.30% FS accuracy.
Temperature Limits	-4 to 176°F (-20 to 80°C).
Compensated Temperature Limits	0.25%: 32 to 158°F (0 to 70°C); 0.10% FS: 32 to 140°F (0 to 60°C).
Thermal Effect	0.25%: ±0.45% FS TEB; 0.10%: ±0.30% FS TEB.
Pressure Limit	2X FS.
Power Requirements	Current Output: 10 to 33 VDC; Voltage Output: 8 to 33 VDC; 5 mA max (no load).
Output Signal	4 to 20 mA DC 2-wire or 0 to 5 V* (model depending).
Response Time	< 50 ms.
Max. Loop Resistance	1000 Ω @ 30 VDC (current output).
Voltage Output Impedance	10 Ω + 4.4 Ω / 100' cable (voltage output).
Electrical Connections	Wire pigtail.
Mounting Connection	Suspended below point being monitored.
Electrical Protection	Surge/lightning protected per EN61000-4-5, Class 5.
Weight	Body: 0.235 lb (0.107 kg); Cable: 0.037 lb (0.009 kg) per foot.
Agency Approvals	CE.

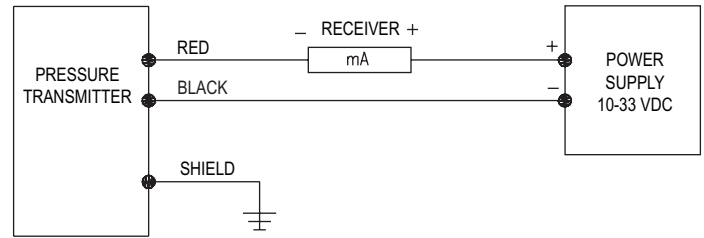




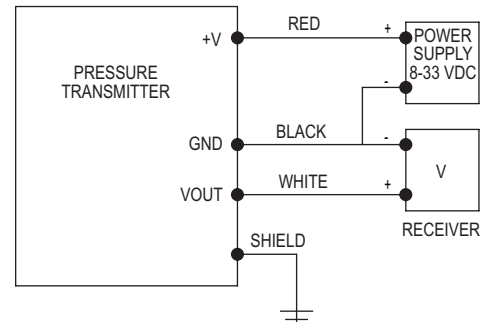
DIMENSIONS



WIRING DIAGRAM



Current Output



Voltage Output

HOW TO ORDER

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

SERIES	CIRCUIT & BODY MATERIAL	ACCURACY	OUTPUT	REFERENCE	OPTIONS	CABLE LENGTH	RANGE VALUE	RANGE UNITS	CABLE MATERIAL
MBLT	-2S	C	-I	V	-FC	-X	-25	F	E
Miniature submersible level transmitter	Lightning/surge protected & 316 SS	B - 0.10% FS C - 0.25% FS	-I - 4 to 20 mA -L - 0 to 2 V -H - 0 to 2.5 V -T - 0 to 3 V -F - 0 to 4 V -V - 0 to 5 V -O - 1 to 5 V	V - Vented	Factory calibration	10 to 2000' 3 to 650 m	4.5 to 300 psi 10 to 693' w.c. 3.2 to 211 m w.c.	Feet of water column Meters of water column psi	ETFE Polyurethane

ACCESSORIES

Model	Description
A-297	Desiccant filter for vent tube. Removes humidity for protection of the sensor. Changes color to show saturation.

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