

- Submersible Level Transducer
- Municipal and Industrial Applications
- Wide Mouth Non-fouling Protective Cage
- 2.75" PTFE Flexible Diaphragm

The LTB Level Transducer is a submersible hydrostatic level transducer specifically designed to meet the rigorous environments encountered in wastewater and liquid level measurements and control.



Standard

- 0.25% FSO Accuracy
- Welded 316 Stainless Steel Enclosure
- One Year Warranty
- Pre-calibrated Pressure Ranges

Optional

- Two Year Warranty
- Custom Pressure Ranges
- Intrinsically Safe
- Lightning Protection

APPLICATIONS

- Lift Station Monitoring
- Pump Control
- Slurry Tank Liquid Level
- Wastewater



Standard Certifications:



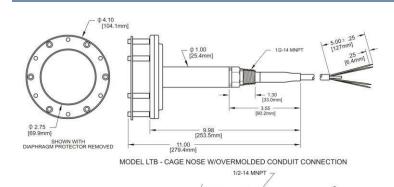


Optional Certifications:





dimensions



MODEL LTB - GLAND SEAL CONDUIT CONNECTION

standard pressure ranges

Pressure Range (PSI)	Feet H ₂ O	LTB Vented	
0-005	11.5 ft	Х	
0-010	23.1 ft	Х	
0-015	34.6 ft	Х	
0-030	69.2 ft	X	
0-050	115.4 ft	Х	
Custom Ranges Available			

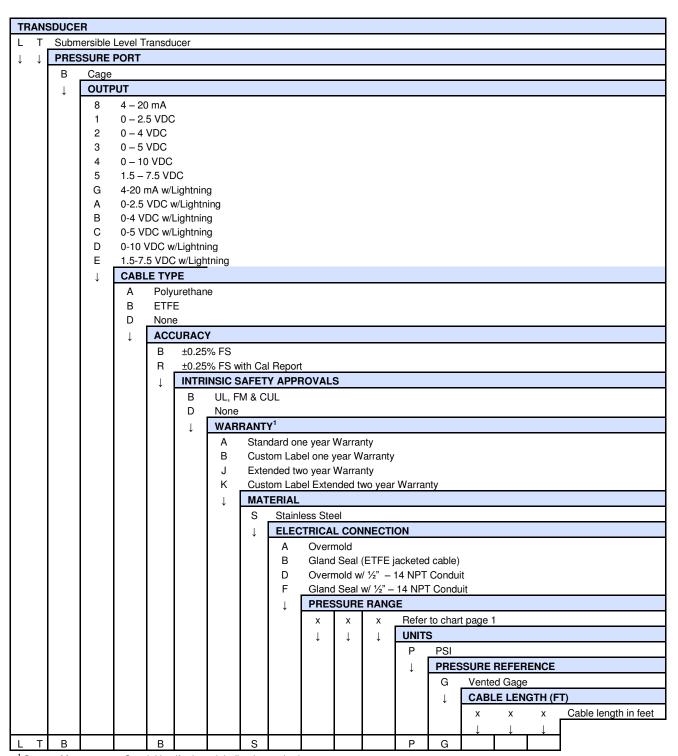


specifications

STATIC PERFORMANCE		
Static Accuracy		
(combined effects of non-linearity, hysteresis and repeatability, best fit straight line method)	±0.25% FSO	BFSL method
Resolution	+0.0001% FS	
ENVIRONMENTAL		
Wetted Materials	316 SS; POM; polyurethane or FKM	
Compensated Temp Range	0 to 50°C	
Thermal Error (maximum allowable deviation from the Best Fit Straight Line due to a change in temperature)	±0.10% FSO/ [®] C	Worst case for level ranges <23' (7m) H_2O Prorated for level ranges <= 23' (7m) H_2O
Operating Temp Range	-20 to 60 °C	when attached to polyurethane cable
Protection Rating	IP 68, NEMA 6P	
ELECTRICAL		
Excitation	9-28V – VDC output 9-28V – mA output 15-28V – VDC output 10-28V – VDC output	0-5V, 0-2.5V, 0-4V 4-20 0-10V 1.5-7.5V
Input Current	20 mA max 3.5 mA max	for mA output for VDC output
Output	4-20mA, 0-5 VDC, 0-2.5VDC, 0-4VDC, 0-10VDC, 1.5-7.5VDC	for ranges < 5 ft (1.5m) H_2O , only 4-20mA output is available
Zero Offset	±0.25 mA for mA output < 0.25 VDC for VDC output	
Output Impedance	See loop diagram for mA output 20 ohm for VDC output	
Insulation Resistance	100 mega ohm at 50 VDC	
Circuit Protection	Polarity, surge/shorted output	
CERTIFICATIONS		
	Standard – WEEE/RoHS, CE compliant	EN 61326-1:2001 and 61326-2-3:2006 Waste from Electrical and Electronic Equipment (WEEE) and Restrictions on the use of Hazardous Substances (RoHS)
PHYSICAL	Optional - UL, CUL and FM	Class I, II, III, Div 1, Groups A,B,C,D,E,F&G
Approximate Weight	3.5 lbs (1588 g) transducer 0.05 lbs/ft (79 g/m) cable	
Cable Jacket Material	Polyurethane (standard) ETFE (optional)	
Cable Pull Strength	200 lbs (90 kg)	
Cable Number of Conductors	4	
Cable Conductor Size	22 AWG	
Cable Seal	Molded Polyurethane FKM Gland	for polyurethane cable for ETFE cable
TEMPERATURE OUTPUT OPTION	(not intrinsically safety approved)	
Temperature Range	-20 to 60°C	available for 4-20mA output versions only
Output Signal	4-20mA	
LIGHTNING PROTECTION (power su	ipply needs to be limited to 150mA to avoid	lock up of the gas tube after a suppression event)
Life Expectancy	>1,000 Operations	
Peak Clamping Voltage	36 Volts	
Response Time	<10 nsecs	
Shunts	20,000 Amperes	



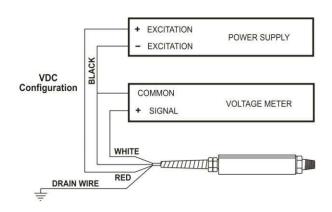
ordering info

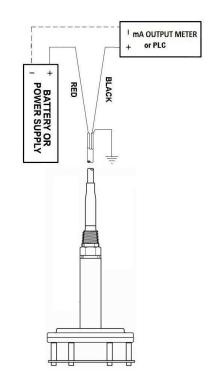


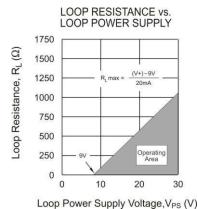
¹ Contact Measurement Specialties if private labeling is required.



electrical termination/loop resistance







ELECTRICAL TERMINATION				
22AWG CONDUCTORS IN A SHIELDED CABLE WITH VENT TUBE				
4-20 mA	RED BLACK	+ EXCITATION - EXCITATION		
0-5 VDC	RED BLACK WHITE	+ EXCITATION - EXCITATION + SIGNAL		
ALL	DRAIN WIRE	SHIELD		

NORTH AMERICA

Measurement Specialties, Inc. 1000 Lucas Way Hampton, VA 23666 USA

Tel: 1-757-766-1500 Fax: 1-757-766-4297 Toll Free: 1-800-745-8008 Sales: WL.sales@meas-spec.com

EUROPE

Measurement Specialties (Europe), Ltd. 26 Rue des Dames 78340 Les Clayes-sous-Bois, France

Tel: +33 (0) 130 79 33 00 Fax: +33 (0) 134 81 03 59

Sales: pfg.cs.emea@meas-spec.com

ASIA

Measurement Specialties (China), Ltd. No. 26 Langshan Road Shenzhen High-Tech Park (North) Nanshan District, Shenzhen 518057 China

Tel: +86 755 3330 5088 Fax: +86 755 3330 5099

Sales: pfg.cs.asia@meas-spec.com

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