



MEAS LTB LEVEL TRANSDUCERS

- 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.

Applications

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

Features

Standard

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

Optional

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

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; PTFE; FKM;	
	Polyurethane or ETFE	
Compensated Temp Range	0 to 50°C	
Thermal Error (maximum allowable deviation from the	±0.10% FSO/ºC	Worst case for level ranges <23' (7m) H_2O Prorated for level ranges <= 23' (7m) H_2O
Best Fit Straight Line due to a change in temperature)		
	-20 to 60 ºC	When attached to polyurethane cable

ELECTRICAL		
Excitation	9-28V – VDC output	0-5V, 0-2.5V, 0-4V
	9-28V – mA output	4-20
	15-28V – VDC output	0-10V
	10-28V – VDC output	1.5-7.5V
Input Current	20 mA max	For mA output
	3.5 mA max	For VDC output
Output	4-20mA, 0-5 VDC, 0-2.5VDC,	For ranges < 5 ft (1.5m) H_2O ,
	0-4VDC, 0-10VDC, 1.5-7.5VDC	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	EN 61326-1:2013 and 61326-2-3:2013 Waste
	compliant	from Electrical and Electronic Equipment
		(WEEE) and Restrictions on the use of
		Hazardous Substances (RoHS)
	Optional - UL, CUL and FM	Class I, II, III, Div. 1, Groups A,B,C,D,E,F&G
PHYSICAL		
Approximate Weight	3.5 lbs. (1588 g) transducer	
	0.05 lbs./ft. (79 g/m) cable	
Cable Jacket Material	Polyurethane (standard)	
	ETFE (optional)	
Coble Dull Strength	× 1 /	
Cable Pull Strength Cable Number of Conductors	200 lbs. (90 kg) 4	
Cable Conductor Size	22 AWG	E an a channeth an a said le
Cable Seal	Molded Polyurethane	For polyurethane cable For ETFE cable
	FKM Gland	FOR EIFE CADIE
TEMPERATURE OUTPUT OPT	TION (not intrinsically safety approved)	
Temperature Range	-20 to 60°C	available for 4-20mA output versions only
Output Signal	4-20mA	, ,
	ver supply needs to be limited to 150mA to	avoid lock up of the gas tube after a suppression event)
Life Expectancy	>1,000 Operations	

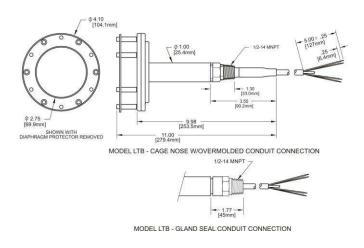
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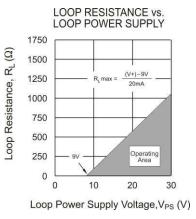
Dimensions

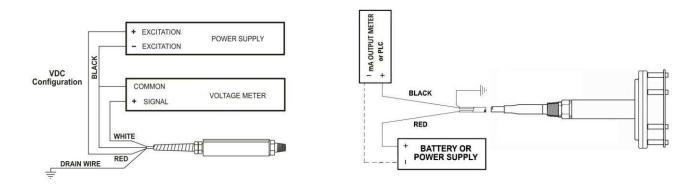


STANDARD PRESSURE RANGES				
Pressure Range (PSI)	Feet H ₂ O	LTB Vented		
0-005	11.5 ft	Х		
0-010	23.1 ft	Х		
0-015	34.6 ft	Х		
0-030	69.2 ft	Х		
0-050	115.4 ft	Х		
Custom (whole number) Ranges Available				

Electrical Termination/Loop Resistance

ELECTRICAL TERMINATION			
22AWG CONDU	CTORS IN A SHIELDED CA	ABLE WITH VENT TUBE	
4-20 mA	RED	+ EXCITATION	
-	BLACK	- EXCITATION	
0.5.1/0.0	RED	+ EXCITATION	
0-5 VDC	BLACK	- EXCITATION	
	WHITE	+ SIGNAL	
ALL	DRAIN WIRE	SHIELD	





Ordering Information

TRANS			
LT			vel Transducer
$\downarrow \qquad \downarrow$		SURE PO	RT
	В	Cage	
	\downarrow	OUTP	
		8	4 – 20 mA
		1	0 – 2.5 VDC
		2	0 – 4 VDC
		3	0 - 5 VDC
		4	0 – 10 VDC
		5	1.5 – 7.5 VDC
		G	4-20 mA w/Lightning
		А	0-2.5 VDC w/Lightning
		В	0-4 VDC w/Lightning
		C	0-5 VDC w/Lightning
		D	0-10 VDC w/Lightning
		E	1.5-7.5 VDC wLightning
		1	CABLE TYPE
		Ť	A Polyurethane
			B ETFE
			ACCURACY
			B ±0.25% FS
			R ±0.25% FS with Cal Report
			↓ INTRINSIC SAFETY APPROVALS
			B UL, FM & CUL (Cable Type A or B Only)
			D None
			↓ WARRANTY'
			A Standard one year Warranty
			B Custom Label one year Warranty
			J Extended two year Warranty
			K Custom Label Extended two year Warranty
			S Stainless Steel
			A Overmold (Cable Type A Only)
			B Gland Seal
			D Overmold w/ 1/2" – 14 NPT Conduit (Cable Type A Only)
			F Gland Seal w/ $\frac{1}{2}$ – 14 NPT Conduit
			Giand Seal Wrize - 14 NP Conduit PRESSURE RANGE
			x x x Refer to chart page 1
			$\downarrow \downarrow \downarrow$ LABEL UNITS
			P PSI
1			M M H2O F Ft. H2O
1			
1			G Vented Gage
1			L CABLE LENGTH (FT)
1	1		x x x Cable length in feet
LΤ	В		
	D	1	

¹Contact Measurement Specialties if private labeling is required.

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