

- Submersible Level Transducer
- Municipal, Industrial and Environmental

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

FEATURES

Standard

- 0.25% Accuracy
- 316 Stainless Steel Body
- One Year Warranty
- Pre-calibrated Pressure Ranges

Optional

- 0.10% Accuracy
- Titanium Body
- Two Year Warranty
- Custom Pressure Ranges
- Intrinsically Safe
- Lightning Protection

APPLICATIONS

- Lift Station Monitoring
- Pump Control
- Tank Liquid Level
- Landfill Leachate Monitoring
- Construction Bypass Pumping
- Dewatering

Standard Certifications:





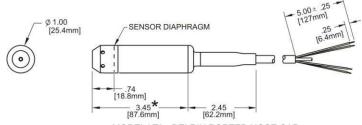
Optional Certifications:







dimensions



MODEL LTA - DELRIN PORTED NOSE CAP

standard pressure ranges for 0.25% accuracy

Pressure Range (PSI)	Feet H ₂ O	Vented	Sealed	Absolute		
0-001	2.3 ft	Х	N/A	N/A		
0-003	6.9 ft	Х	N/A	N/A		
0-005	11.5 ft	Х	Х	N/A		
0-010	23.1 ft	Х	Х	N/A		
0-015	34.6 ft	Х	Х	Х		
0-030	69.2 ft	Х	Х	Х		
0-050	115.4 ft	Х	Х	Х		
0-100	230.7 ft	Х	Х	Х		
0-300	692.2 ft	Х	Х	Х		
Custom Ranges also available						



STATIC PERFORMANCE

Static Accuracy (combined effects of non-linearity, hysteresis and repeatability, best fit straight line method)	Standard - 0.25% FSO Optional - 0.10% FSO	BFSL method For absolute/sealed reference min. range 0-15 PSI
Resolution	+0.0001% FS	
ENVIRONMENTAL		
Wetted Materials	316 SS or Titanium; 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)	±0.1% FSO/ [®] C	
Operating Temp Range	-20 to 60 °C	when attached to polyurethane cable
Protection Rating	IP 68, NEMA 6P	
ELECTRICAL		
Excitation	9-28V – mA output 9-28V – VDC output 15-28V – VDC output 10-28V – VDC output	4-20 0-5V, 0-2.5V, 0-4V 0-10V 1.5-7.5V
Input Current	20 mA max 3.5 mA max	for mA output for VDC output
Output	Standard - 4-20mA Optional - 0-4 VDC, 0-5 VDC, 0-2.5 VDC, 0-10 VDC, 1.5-7.5 VDC	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)
	Optional - UL, CUL and FM	Class I, II, III, Div 1, Groups A,B,C,D,E,F&G
DHACICVI		

	Optional - UL, CUL and FM	Class I, II, III, Div 1, Groups A,B,C,D,E,F&G
PHYSICAL		
Approximate Mainht	0.44 lbs (198 g) transducer	
Approximate Weight	0.05 lbs/ft (79 g/m) cable	
Cable Jacket Material	Standard - Polyurethane Optional - ETFE	
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

LIGHTNING PROTECTION (power supply 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					

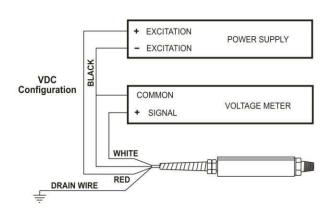


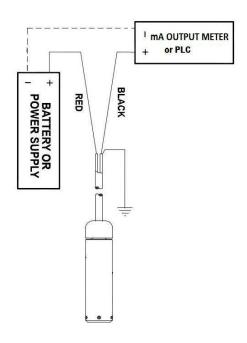
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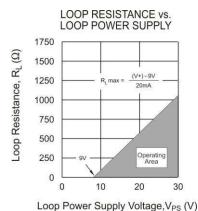
¹ Contact Measurement Specialties if private labeling is required.



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						

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