- 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





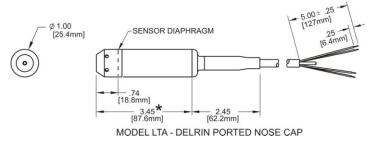
RoHS

Optional Certifications:





dimensions



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	Standard - 0.25% FSO Optional - 0.10% FSO	BFSL method For absolute/sealed reference min. range 0-15 PSI
straight line method)	·	
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/ºC	
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
PHYSICAL		
Approximate Weight	0.44 lbs (198 g) transducer 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 se	upply needs to be limited to 150mA to avoid I	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	
	·,···	

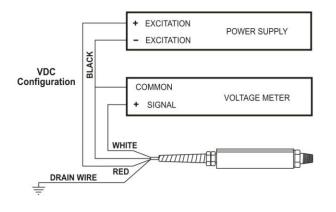


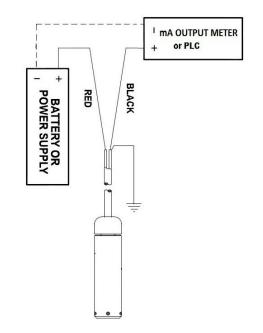
ANSDUCER				
L T Submersible Level Transducer				
↓ ↓ PRESSURE PORT				
A Nose cap				
8 4 – 20mA				
1 0 – 2.5 VDC				
2 0-4 VDC				
$\begin{array}{ccc} 3 & 0 - 5 \text{ VDC} \\ 4 & 0 - 10 \text{ VDC} \end{array}$				
5 1.5 – 7.5 VDC				
G 4-20 mA w/Lightning Protection				
A 0-2.5 VDC w/Lightning Protection				
B 0-4 VDC w/Lightning Protection				
C 0-5 VDC w/Lightning Protection				
D 0-10 VDC w/Lightning Protection				
E 1.5-7.5 VDC w/Lightning Protection ↓ CABLE TYPE				
A Polyurethane				
B ETFE				
D None				
B ±0.25% FSO				
R ±0.25% FSO with Cal Report				
A ±0.10% FSO S ±0.10% FSO with Cal Report				
S ±0.10% FSO with Cal Report ↓ INTRINSIC SAFETY APPROVALS				
D None				
B UL, FM & CUL				
↓ WARRANTY ¹				
A Standard one year Warranty				
B Custom Label one year Warranty				
J Extended two year Warranty				
K Custom Label two year Warranty				
↓ MATERIAL S Stainless Steel				
T Titanium				
A Overmold				
B Gland Seal (ETFE jacketed cable)				
D Overmold w/ 1/2" – 14 NPT Conduit				
F Gland Seal w/ 1/2" – 14 NPT Conduit				
↓ PRESSURE RANGE				
x x x Refer to chart page 1				
$\downarrow \downarrow \downarrow \downarrow \qquad \qquad$				
↓ PRESSURE REFERENCE				
G Vented Gage				
S Sealed Gage				
↓ CABLE LENGTH (FT)				
x x x Cable length in fe	eet			

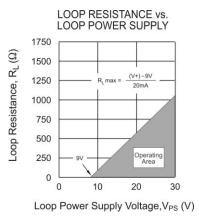
¹ Contact Measurement Specialties if private labeling is required.



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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