



MEAS LTR LEVEL TRANSDUCERS

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

The LTR Level Transducer is a ruggedized 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

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

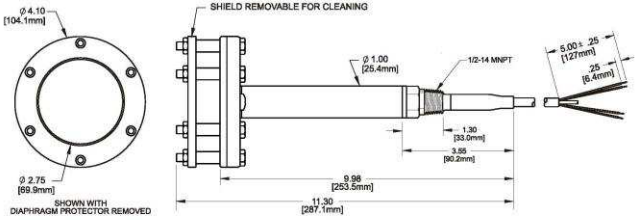
Specifications

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 Best Fit Straight Line due to a change in temperature)	±0.10% FSO/°C	Worst case for level ranges <23' (7m) H ₂ O Prorated for level ranges ≤ 23' (7m) H ₂ O
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 ₂ O, 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	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 supply needs to be limited to 150mA to avoid lock up of the gas tube after a suppression event)		
Life Expectancy	>1,000 Operations	

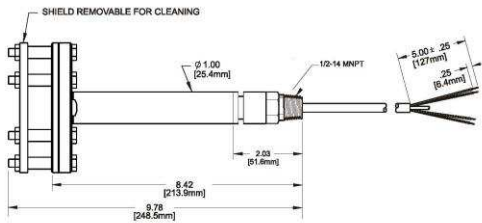
MEAS LTR LEVEL TRANSDUCER

Peak Clamping Voltage	36 Volts
Response Time	<10 nsecs
Shunts	20,000 Amperes

Dimensions



MODEL LT (THICK PLATE) - CAGE NOSE W/OVERMOLD CONDUIT CONNECTION

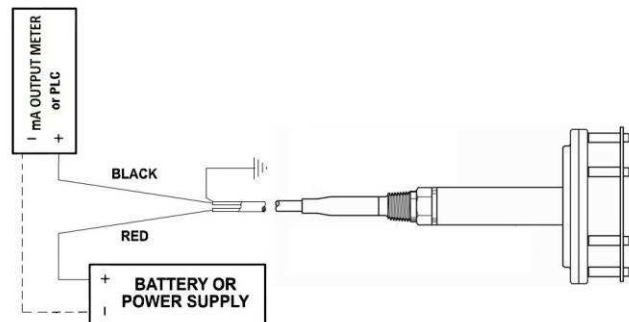
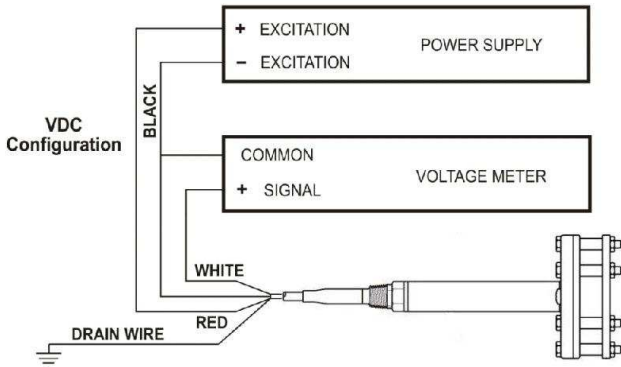
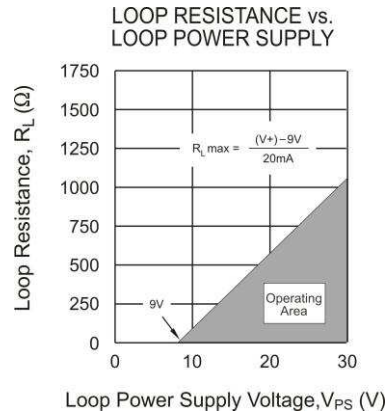


MODEL LT (THICK PLATE) - CAGE NOSE W/GLAND SEAL CONDUIT CONNECTION

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

Electrical Termination/Loop Resistance

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



MEAS LTR LEVEL TRANSDUCER

Ordering Information

TRANSDUCER										
L	T	Submersible Level Transducer								
↓	↓	PRESSURE PORT								
		R	Heavy-duty Cage							
		↓	OUTPUT							
		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							
		A	0-2.5 VDC w/Lightning							
		B	0-4 VDC w/Lightning							
		C	0-5 VDC w/Lightning							
		D	0-10 VDC w/Lightning							
		E	1.5-7.5 VDC w/Lightning							
		↓	CABLE TYPE							
		A	Polyurethane							
		B	ETFE							
		D	None (Gland Seal Only)							
		↓	ACCURACY							
		B	±0.25% FS							
		↓	INTRINSIC SAFETY APPROVALS							
		B	UL, FM & CUL							
		D	None							
		↓	WARRANTY¹							
		A	Standard one year Warranty							
		B	Custom Label one year Warranty							
		J	Extended two year Warranty							
		K	Custom Label Extended two year Warranty							
		↓	MATERIAL							
		S	Stainless Steel							
		↓	ELECTRICAL CONNECTION							
		A	Overmold							
		B	Gland Seal (ETFE jacketed cable)							
		D	Overmold w/ ½" – 14 NPT Conduit							
		F	Gland Seal w/ ½" – 14 NPT Conduit							
		↓	PRESSURE RANGE							
		x	x	x	Refer to chart page 1					
		↓	↓	↓						
		↓	UNITS							
		P	PSI							
		M	M H ₂ O							
		F	Ft. H ₂ O							
		↓	PRESSURE REFERENCE							
		G	Vented Gage							
		↓	CABLE LENGTH (FT)							
		x	x	x	Cable length in feet					
		↓	↓	↓						
L	T	R								G

¹Contact Measurement Specialties if private labeling is required.

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