



# 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

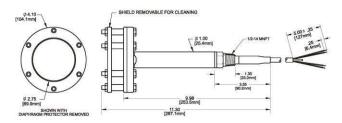
# **Specifications**

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) H₂O Prorated for level ranges <= 23' (7m) H₂O
Operating Temp Range	-20 to 60 °C	When attached to polyurethane cable
Protection Rating	IP 68, NEMA 6P	
ELECTRICAL		
Excitation	9-28V – VDC output	0-5V, 0-2.5V, 0-4V
LAGRATION	9-28V – vDC 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 <sub>2</sub> O,
	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 compliant	EN 61326-1:2013 and 61326-2-3:2013 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	
Cable Jacket Material	0.05 lbs./ft. (79 g/m) cable 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	For polyurethane cable For ETFE cable
TEMPERATURE CUERUS	FKM Gland	
	ION (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	
Peak Clamping Voltage	36 Volts	
Response Time	<10 nsecs	

20,000 Amperes

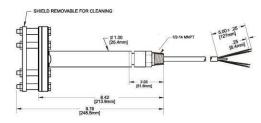
Shunts

# **Dimensions**



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

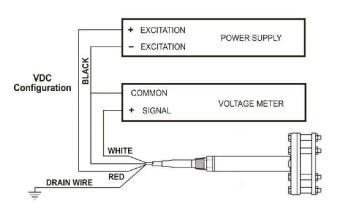
STANDARD PRESSURE RANGES			
Pressure Range (PSI)	Feet H₂O		
0-005	11.5 ft		
0-010	23.1 ft		
0-015	34.6 ft		
0-030	69.2 ft		
0-050	115.4 ft		
Custom (whole number) Ranges Available			

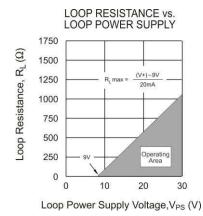


MODEL LT (THICK PLATE) - CAGE NOSE W/GLAND SEAL CONDUIT CONNECTION

# 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	



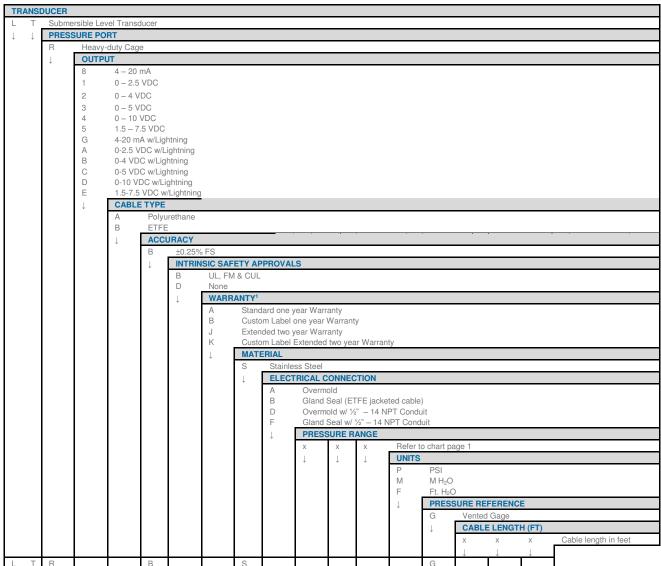


BLACK

RED

+ BATTERY OR
POWER SUPPLY

# Ordering Information



<sup>&</sup>lt;sup>1</sup> Contact Measurement Specialties if private labeling is required.

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