



MEAS PRESSURE SERIES TRANSDUCERS LT5 & LT7

- Non-Submersible Pressure Transducer
- Municipal, Industrial and Environmental Applications

LT 5 & 7 Pressure Transducers are non-submersible hydrostatic pressure transducers specifically designed for demanding industrial applications where the primary criteria are reliability and economy.

Applications

- ◆ Non-Submersible Tank Level
- ◆ Liquid Line Pressure
- ◆ Pump Control
- ◆ Construction Bypass Pumping
- ◆ Dewatering

Features

Standard

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

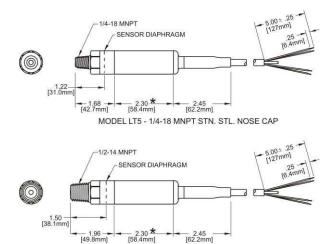
Optional

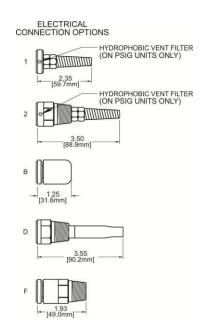
- ◆ 0.10% FSO Accuracy
- ◆ Titanium Body
- ◆ Two Year Warranty
- Custom Pressure Ranges
- ◆ Intrinsically Safe
- ◆ Lightning Protection

Specifications

•			
STATIC PERFORMANCE			
Static Accuracy			
(combined effects of non-linearity, hysteresis and repeatability, best fit straight line method)	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; FKM; Polyurethane or ETFE		
Compensated Temp Range	0 to 50ºC		
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	Only for Electrical Connection options "A" & "D" with Cable Type option "A"; or Electrical Connection options "B" & "F" with Cable Type option "B"	
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	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 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 Optional – UL, CUL, and FM	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)	
PHYSICAL		Class I, II, III, Div. 1, Groups A,B,C,D,E,F,&G	
Approximate Weight	0.44 lbs. (198 g) transducer 0.05 lbs./ft. (79 g/m) cable		
Cable Jacket Material	PVC Jacket, 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 (pov		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		

Dimensions

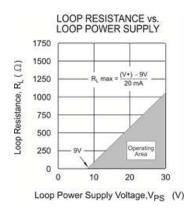




Electrical Termination / Loop Resistance

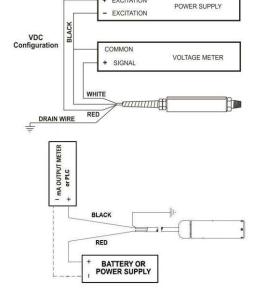
ELECTRICAL TERMINATION					
22AWG CONDUCTORS IN A SHIELDED CABLE WITH VENT TUBE					
4-20 mA	RED BLACK	+ EXCITATION - EXCITATION			
0-5 VDC	RED BLACK WHITE	+ EXCITATION - EXCITATION + SIGNAL			
ALL	DRAIN WIRE	SHIELD			

MODEL LT7 - 1/2-14 MNPT STN. STL. NOSE CAP



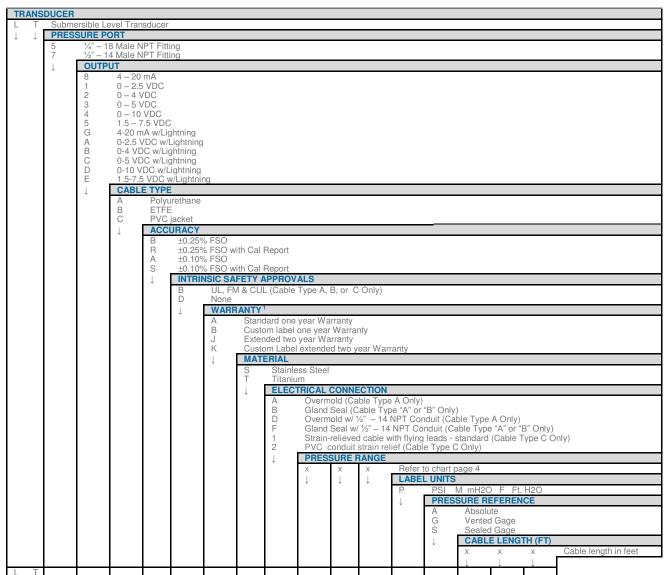
Standard Pressure Ranges for 0.25% Accuracy

Pressure Range	LT 5, 7 Vented	LT 5, 7 Sealed	LT 5,7 Absolute
001	Χ	N/A	N/A
003	Χ	N/A	N/A
005	Х	X	N/A
015	Х	X	Х
030	Х	X	Х
050	Х	Х	Х
100	Х	Х	Х
300	Х	Х	Х
500	N/A	Х	Х
700	N/A	Х	Х
900	N/A	Х	Х
NOTE: Overmold option sealed/absolute referen	is limited to a maximum o ce is 0-15 PSI	of 300 PSI. Minimum rang	ge for +/- 0.10% with



+ EXCITATION

Ordering Information



¹ Contact Measurement Specialties if private labeling is required.

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