



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

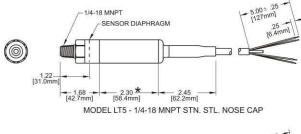
Optional

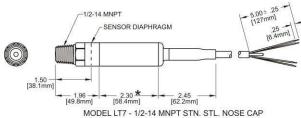
- 0.10% FSO Accuracy
- Titanium Body
- Two Year Warranty
- Custom Pressure Ranges
- Intrinsically Safe
- Lightning Protection

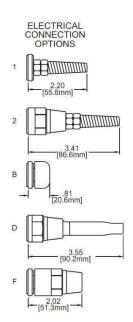
Specifications

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 50°C						
Thermal Error (maximum allowable deviation from the Best Fit Straight Line due to a change in temperature)	±0.1% FSO/ ^o C						
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 61326-1:2001 and 61326-2-3:2006 Waste from Electrical and Electronic Equipment (WEEE) and Restrictions on the use of Hazardous Substances (RoHS) 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	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 (pow		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	20,000 Amperos						

Dimensions

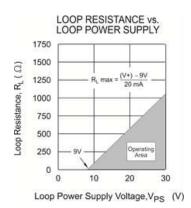






Electrical Termination / Loop Resistance

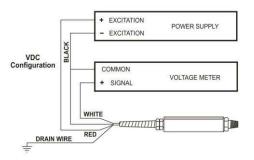
ELECTRICAL TERMINATION									
22AWG CONDUCTORS IN A SHIELDED CABLE WITH VENT TUBE									
4-20 mA	RED BLACK	+ EXCITATION - EXCITATION							
0-5 VDC	RED BLACK WHITE	+ EXCITATION - EXCITATION + SIGNAL							
ALL	DRAIN WIRE	SHIELD							

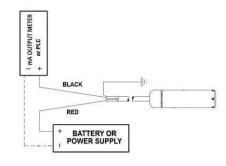


Standard Pressure Ranges for 0.25% Accuracy

Pressure Range	LT 5, 7 Vented	LT 5, 7 Sealed	LT 5,7 Absolute
001	X	N/A	N/A
003	Х	N/A	N/A
005	Х	X	N/A
015	Х	X	Х
030	Х	Х	Χ
050	Х	Х	Х
100	Х	Х	Х
300	X	Χ	Χ
500	N/A	Χ	Χ
700	N/A	Х	Χ
900	N/A	Х	Χ

NOTE: Overmold option is limited to a maximum of 300 PSI. Minimum range for +/- 0.10% with sealed/absolute reference is 0.15 PSI





Ordering Information

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¹ Contact Measurement Specialties if private labeling is required.

NORTH AMERICA

Measurement Specialties, Inc., a TE Connectivity company 1000 Lucas Way Hampton, VA 23666 Tel: 1-757-766-1500 Fax: 1-757-766-4297 Toll Free: 1-800-745-8008 Email: WL.Sales@te.com

EUROPE

Measurement Specialties (Europe), Ltd., a TE Connectivity company 26 Rue des Dames 78340 Les Clayes-sous-Bois, France Tel: +33 (0) 130 79 33 00 Fax: +33 (0) 134 81 03 59 Email: customercare.lcsb@te.com

ASIA

Measurement Specialties (China), Ltd., a TE Connectivity company No. 26 Langshan Road Shenzhen High-Tech Park (North) Nanshan District, Shenzhen 518057 China Tel: +86 755 3330 5088

Fax: +86 755 3330 5099

Email: customercare.shzn@te.com

te.com/sensorsolutions

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