

Model 225TLP

Low Pressure Transmitter



Model 225TLP

Applications

- Pneumatics
- Commercial / HVAC
- Process Automation
- Testing Technologies
- Environmental Engineering

Features

- Ranges from -4 in H₂O to 0 thru 0 to 10 psi
- 4-20mA and 0-10Vdc Standard Industrial Output Signals
- 304 stainless steel body
- Industry standard electrical connections including DIN 175301-803A, C and Shielded Cable
- Highly flexible modular design
- Protection Class IP65/NEMA 4X (Shielded Cable Connection IP67/NEMA 6)

The **TRERICE 225TLP** "Low-Pressure" Transmitter is the ideal choice for measurement of low pressure dry gases. The silicone chip/thin-film sensor element of the 225TLP is directly attached to the process connection, so no internal transmission media is required insuring a high degree of reliability and stability.

In addition, the modular design of the 225TLP Low-Pressure Transmitter allows for a wide variety of electrical connections, output signals and process connections to be specified to meet the requirements of any application.

Specifications

Model	225TLP • Low Pressure Transmitter		
Sensor Element	Thin film resistors on a Silicon Membrane		
Process Connection	1/4 or 1/2 NPT male		
Materials of Construction			
Housing:	304 stainless steel		
Wetted Parts:	304 stainless steel, Silicon Chip, Glass		
Seal:	NBR		
Accuracy at 77° F (25°C)	BFSL	Full Scale	
Non-Linearity:	0.60%	1.00%	
Hysteresis:	0.40%	0.80%	
Repeatability:	0.10%	0.10%	
Operating Temperature Ranges			
Medium:	-13/+185°F (-25/+85°C)		
Ambient:	-13/+185°F (-25/+85°C)		
Temperature Error Band			
Temperature compensated to within 1% between 14°F to 158°F (-10 to +70 °C)			
Humidity			
95% RH Non-condensing			
100% RH with Shielded Cable Connection (E3)			
Electronic Connection			
90° Angle "Standard" Connector / DIN 175301-803 (A)			
90° Angle "Mini" Connector / DIN 175301-803 (C)			
Shielded Cable (3 Feet Standard)			
Output Signal			
4-20mA (2 wire) and 0-10Vdc (3 wire)			
Overpressure Limit			
At least:	2.5 x FS		
burst pressure at least:	6 x FS (10 psi 4.5 x FS)		
Response Time (10-90%) < 1 ms			
Power Supply			
Output Signal:	Minimum	Maximum	Recommended
4-20mA:	10Vdc	32Vdc	24Vdc
0-10Vdc:	12Vdc	32Vdc	24Vdc
Load Resistance			
4-20mA:	≤ $V_{SUPPLY} - 10 \text{ Vdc}$		
	0.02 A		
0-10 Vdc:	> 5 kOhm		
Circuit Protection			
Protected against reverse polarity and short circuits			
CE Conformity RoHS2 Directive 2011/65/EU			
EMC Directive: 2014/30/EU - PED Directive: 2014/68/EU			
Applied standards: EN 61326-1:2013, EN 61326-2-3:2013			
Ingress Protection Rating			
90° Angle Connector: IP65 / NEMA 4X			
Shielded Cable: IP67 / NEMA 6			
Approximate Shipping Weight 0.3 lbs (0.14kg)			

HOW TO ORDER

Sample Order Number: **225TLP 02 D U 0/60 E1 3**

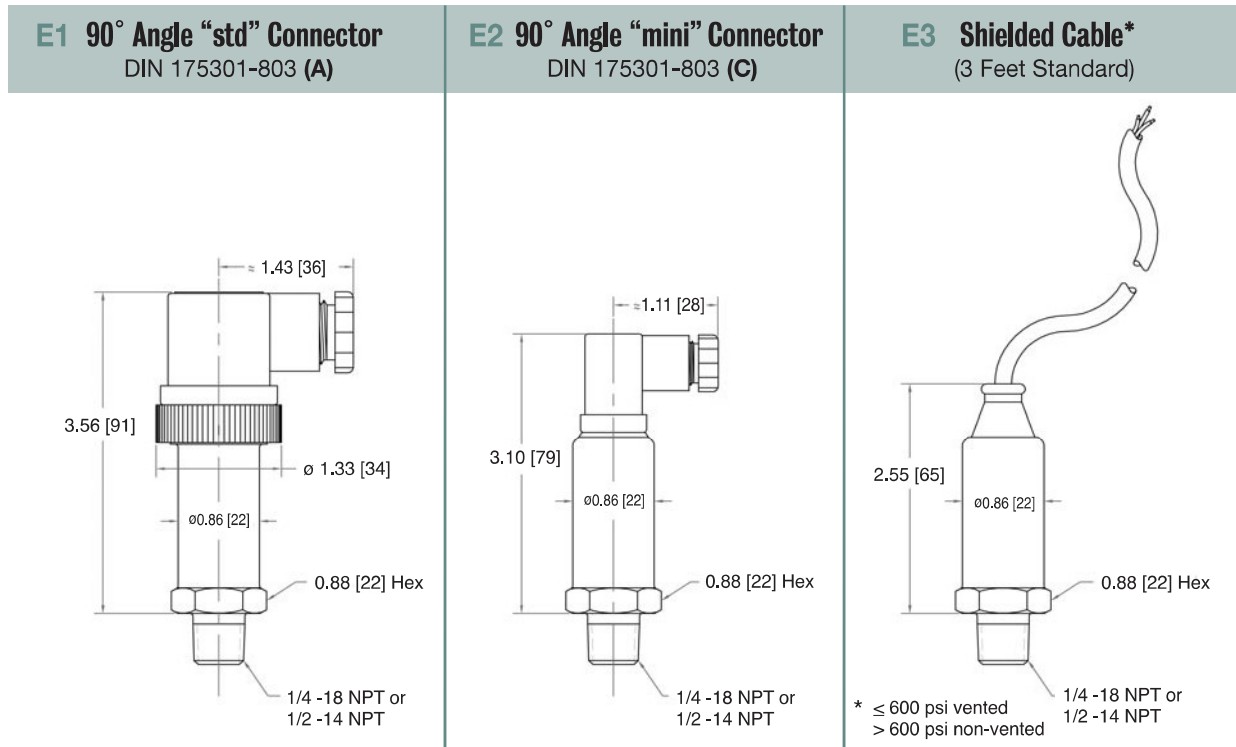
Model	Process Connection	Accuracy	Units of Measure	Range Code	Electrical Connection	Cable Length (omit if none)	Output Signal
225TLP	02 1/4 NPT	D 1.0% FS (0.60% BFSL)	U in H ₂ O A psi	See Standard Ranges	E1 DIN 175301-803 (A) "std"	Specify Length in Feet (ie., 3 Ft=003)	3 4-20mA (2-wire)
	04 1/2 NPT				E2 DIN 175301-803 (C) "mini"		2 0-10 Vdc (3-wire)
					E3 Shielded Cable (3 Ft Std)		

Multiple electrical connections, output signals and process connections are available, Please consult factory.

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All dimensions are nominal.
Dimensions in [] are in millimeters.



INDUSTRIAL TRANSMITTERS

Standard Ranges

in. H ₂ O Ranges (U)			
Range Code	Specific Range	Overpressure Limit	Burst Pressure
Pressure			
0/4	0/4 in. H ₂ O	10 in. H ₂ O	24 in. H ₂ O
0/10	0/10 in. H ₂ O	25 in. H ₂ O	60 in. H ₂ O
0/15	0/15 in. H ₂ O	38 in. H ₂ O	90 in. H ₂ O
0/30	0/30 in. H ₂ O	75 in. H ₂ O	180 in. H ₂ O
0/40	0/40 in. H ₂ O	100 in. H ₂ O	240 in. H ₂ O
0/60	0/60 in. H ₂ O	150 in. H ₂ O	360 in. H ₂ O
0/100	0/100 in. H ₂ O	250 in. H ₂ O	600 in. H ₂ O
0/160	0/160 in. H ₂ O	400 in. H ₂ O	960 in. H ₂ O
0/200	0/200 in. H ₂ O	500 in. H ₂ O	1200 in. H ₂ O
0/300	0/300 in. H ₂ O	750 in. H ₂ O	1800 in. H ₂ O
Vacuum			
4/0	4/0 in. H ₂ O	10 in. H ₂ O	24 in. H ₂ O
10/0	10/0 in. H ₂ O	25 in. H ₂ O	60 in. H ₂ O
15/0	15/0 in. H ₂ O	38 in. H ₂ O	90 in. H ₂ O
30/0	30/0 in. H ₂ O	75 in. H ₂ O	180 in. H ₂ O
60/0	60/0 in. H ₂ O	150 in. H ₂ O	360 in. H ₂ O
100/0	100/0 in. H ₂ O	250 in. H ₂ O	600 in. H ₂ O
200/0	200/0 in. H ₂ O	500 in. H ₂ O	1200 in. H ₂ O

psi Ranges (A)			
Range Code	Specific Range	Overpressure Limit	Burst Pressure
0/3	0 to 3 psi	8 psi	18 psi
0/5	0 to 5 psi	13 psi	30 psi
0/10	0 to 10 psi	25 psi	45 psi

Actual working pressures should never exceed the "Specific Range" or the maximum process connection rating. "Overpressure Limits" and "Burst Pressures" shown refer to the sensor or body of the transmitter and are for reference purposes only. For correct use and application See: ASTM F2070-00.