Model 220TST

Standard Pressure Transmitter



Illuus

- Industrial Environments
- Fire Protection

Applications

- Hydraulic Systems
- Commercial / HVAC
- Process Automation
- Pump System Control
- Testing Technologies

Model 220TST

Features

- Ranges from 30" Hg to 0 thru 0 to 15,000 psi
- 4-20mA and 0-10Vdc Standard Industrial Output Signals
- Fully welded "Dry Measuring Cell", requires no internal transmission fluid or seals
- 17-4 PH stainless steel wetted parts
- 304 stainless steel body
- Industry standard electrical connections including DIN 175301-803A,
 Shielded Cable and M12 (S7243) 4 pin
- Highly flexible modular design
- Rated for Fire Protection Equipment

The **TRERICE 220TST** Pressure Transmitter is the ideal choice for demanding industrial, test & measurement, process control and fire protection applications. Thanks to the stainless steel/thin-film sensor element being directly welded to the process connection, the 220TST requires no internal transmission media or seals insuring a high degree of reliability and stability. Stainless steel wetted parts provide long-term durability even in the harshest environments.

In addition, the modular design of the 220TST 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 220TST • Standard Transmitter

Sensor Element Thin film resistors directly deposited on a Stainless Steel Diaphragm

Process Connection 1/4 or 1/2 NPT male

Materials of Construction

Housing: 304 stainless steel
Wetted Parts: 17-4 PH stainless steel

Operating Temperature Ranges

Medium: -40/+257°F (-40/+125°C) Ambient: -40/+221°F (-40/+105°C)

Temperature Error Band

Temperature compensated to within 1% between -4°F to 185°F (-20 to +85 °C)

Humidity

95% RH Non-condensing

100% RH with Shielded Cable Connection (E3)

Electronic Connection

90° Angle "Standard" Connector / DIN 175301-803 (A) Shielded Cable (3 Feet Standard) M12 (S7243) 4 pin Circular Connector

Output Signal

4-20mA (2 wire) and 0-10Vdc (3 wire)

Overpressure Limit

Ranges ≤ 5000 psi at least:) $1.5 \times FS$ burst pressure at least: $2.9 \times FS$ 10,000-15,000 psi at least: $1.2 \times FS$ burst pressure at least: $1.5 \times FS$

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: $\leq \frac{V_{SUPPLY} - 10 \text{ Vdc}}{0.02 \text{ A}}$

0-10 Vdc: > 5 k0hm

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 and M12 4 pin: IP67 / NEMA 6

Approximate Shipping Weight 0.3 lbs (0.14kg)

Sample Order Number: 220TST 02 C A 0/100 E1 3

HOW TO ORDER

Model	Process Connection	Accuracy	Units of Measure	Range Code	Electrical Connection	Cable Length (omit if none)	Output Signal
220TST	02 ¹ / ₄ NPT* 04 ¹ / ₂ NPT	c 0.5% FS (0.35% BFSL)	A psi	See Standard Ranges	E1 DIN 175301-803 (A) "std" E3 Shielded Cable (3 Ft Std) E9 M12 (S723) 4 pin	Specify Length in Feet (ie., 3 Ft=003)	3 4-20mA (2-wire) 2 0-10 Vdc (3-wire)

Multiple electrical connections, output signals and process connections are available, Please consult factory.
* Maximum pressure 14,500 psi

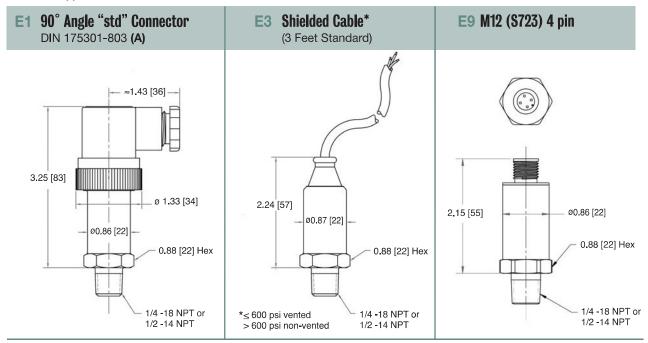


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All dimensions are nominal.

Dimensions in [] are in millimeters.



Standard Ranges

psi Ranges (A)								
Range Code	Specific Range	Overpressure Limit	Burst Pressure					
30/0	30"Hg to 0	23 psi	44 psi					
30/15	30"Hg to 15 psi	45 psi	87 psi					
30/30	30"Hg to 30 psi	68 psi	131 psi					
30/60	30"Hg to 60 psi	113 psi	218 psi					
30/100	30"Hg to 100 psi	173 psi	334 psi					
30/150	30"Hg to 150 psi	248 psi	479 psi					
30/300	30"Hg to 300 psi	473 psi	914 psi					
0/15	0 to 15 psi	23 psi	44 psi					
0/30	0 to 30 psi	45 psi	87 psi					
0/60	0 to 60 psi	90 psi	174 psi					
0/100	0 to 100 psi	150 psi	290 psi					
0/160	0 to 160 psi	240 psi	464 psi					
0/200	0 to 200 psi	300 psi	580 psi					
0/300	0 to 300 psi	450 psi	870 psi					
0/400	0 to 400 psi	600 psi	1160 psi					
0/500	0 to 500 psi	750 psi	1450 psi					
0/600	0 to 600 psi	900 psi	1740 psi					
0/1000	0 to 1000 psi	1500 psi	2900 psi					
0/1500	0 to 1500 psi	2250 psi	4350 psi					
0/2000	0 to 2000 psi	3000 psi	5800 psi					
0/3000	0 to 3000 psi	4500 psi	8700 psi					
0/5000	0 to 5000 psi	7500 psi	14,500 psi					
0/10000	0 to 10,000 psi	12,000 psi	15,000 psi					
0/15000	0 to 15,000 psi	18,000 psi	22,500 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.

Classifications and Standards:

- UL® Classified and Listed to NSF/ANSI Standard 61 & 372 of "Safe Drinking Water Act"
- UL® Classified and Listed to IEC 61010-1 / CSA C22.2 NO. 61010-1-12
 "Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use"
- Meets FM Approvals® for Class Number 1321/1323 Clause 5.9 (1-8)
 "Controllers for Electric Motor Driven and Diesel Engine Driven Fire Pumps"

