



Industrial Pressure Transmitter

Model 220TST



Applications

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

Features

- Ranges from 30" Hg to 0 thru 0 to 20,000 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, C and Shielded Cable
- Highly flexible modular design
- Protection Class IP65/NEMA 4X (Shielded Cable Connection IP67/NEMA 6)

DESCRIPTION

The **TRERICE 220TST** Pressure Transmitter is the ideal choice for demanding industrial, test & measurement and process control 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.

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Transmitter-2

SPECIFICATIONS

Model	220TST • Standard Transmitter		
Sensor Element	Stainless steel membrane / poly-Si on SiO ₂ thin film resistors		
Process Connection	1/4 NPT male		
Materials of Construction	Housing: 304 stainless steel Wetted Parts: 17-4 PH stainless steel		
Accuracy	0.5% Full Scale (Terminal Point Method) / 0.35% Full Scale (BFSL) Includes: Non-Linearity, Hysteresis and Non-Repeatability.		
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 and 185°F (-20°C and 85°C). Best accuracy of ≤0.5% at 77°F (25°C).		
Humidity	95% RH Non-condensing 0-100% RH with Shielded Cable Connection (E3)		
Electrical Connection	90° Angle "Standard" Connector / DIN 175301-803 (A) 90° Angle "Mini" Connector / DIN 175301-803 (C) Shielded Cable (3 Ft)		
Output Signal	4-20mA (2 wire) and 0-10Vdc (3 wire)		
Overpressure Limit	Ranges ≤ 5000 psi	1.5 x FS	
	Burst pressure	> 3 x FS	
	10,000-20,000 psi	1.2 x FS	
	Burst pressure	> 1.5 x FS	
Response Time (10-90%)	< 1 ms		
Power Supply	<u>Output Signal:</u>	<u>Minimum</u>	<u>Maximum</u>
	4-20mA:	10Vdc	32Vdc
	0-10Vdc:	12Vdc	32Vdc
			<u>Recommended</u>
			24Vdc
			24Vdc
Load Resistance	4-20 mA: Vdc Supply-10Vdc /0.02A = Ohm resistance (maximum) 0-10 Vdc: ≥ 5 kOhm (minimum)		
Circuit protection	Protected against reverse polarity and short circuits		
CE conformity	EC Directive 89/336/EWG		
Ingress Protection Rating	90° Angle Connector: IP65 / NEMA 4X Shielded Cable: IP67 / NEMA 6		
Approx. Shipping Weight	0.2 lbs (0.09kg)		

How To Order

Example: 220TST 02 C A 0/100 E1 3

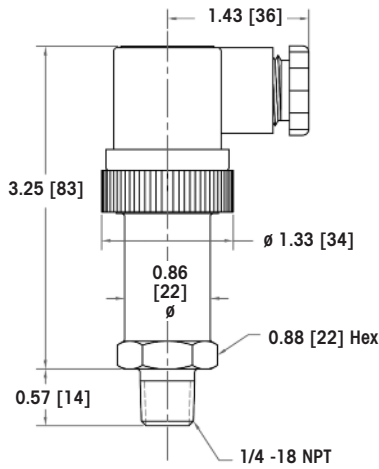
Model	Process Connection	Accuracy	Units of Measure	Range Code	Electrical Connection	Output Signal
220TST	02 1/4 NPT	C 0.5% FS (0.35% BFSL)	A psi	See Standard Ranges	E1 DIN 175301-803 (A) "std"	3 4-20mA (2-wire)
					E2 DIN 175301-803 (C) "mini"	2 0-10 Vdc (3-wire)
					E3 Shielded Cable (3 Feet)	

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

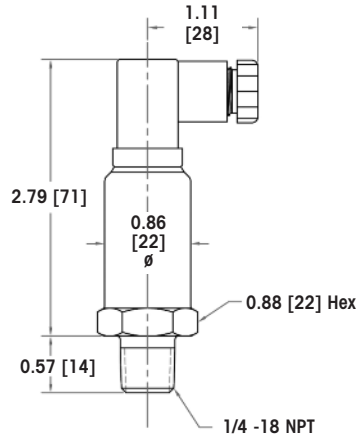
Configurations & Dimensions



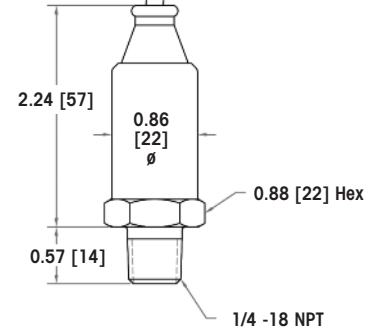
E1 90° Angle "std" Connector
DIN 175301-803 (A)



E2 90° Angle "mini" Connector
DIN 175301-803 (C)



E3 Shielded Cable
(3 Feet)



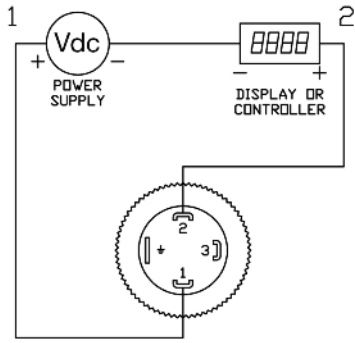
Standard Ranges

Range Code	Specific Range (psi)	Overpressure Limit	Burst Pressure
30/0	30"Hg to 0	23 psi	45 psi
30/15	30"Hg to 15 psi	45 psi	90 psi
30/30	30"Hg to 30 psi	68 psi	135 psi
30/60	30"Hg to 60 psi	113 psi	225 psi
30/100	30"Hg to 100 psi	173 psi	345 psi
30/150	30"Hg to 150 psi	248 psi	495 psi
30/300	30"Hg to 300 psi	473 psi	945 psi
0/15	0 to 15 psi	23 psi	45 psi
0/30	0 to 30 psi	45 psi	90 psi
0/60	0 to 60 psi	90 psi	180 psi
0/100	0 to 100 psi	150 psi	300 psi
0/160	0 to 160 psi	240 psi	480 psi
0/200	0 to 200 psi	300 psi	600 psi
0/300	0 to 300 psi	450 psi	900 psi
0/400	0 to 400 psi	600 psi	1200 psi
0/600	0 to 600 psi	900 psi	1800 psi
0/1000	0 to 1000 psi	1500 psi	3000 psi
0/1500	0 to 1500 psi	2250 psi	4500 psi
0/2000	0 to 2000 psi	3000 psi	6000 psi
0/3000	0 to 3000 psi	4500 psi	9000 psi
0/5000	0 to 5000 psi	7500 psi	15000 psi
0/10000	0 to 10000 psi	12000 psi	15000 psi
0/15000	0 to 15000 psi	18000 psi	22500 psi
0/20000	0 to 20000 psi	24000 psi	30000 psi

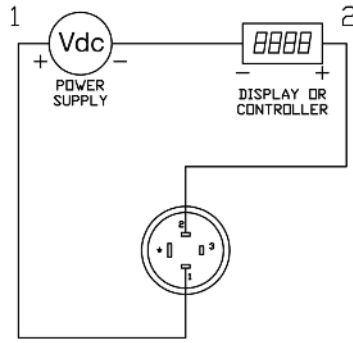
Electrical Connections Wiring Diagram

2- Wire
Circuits
(4 20mA)

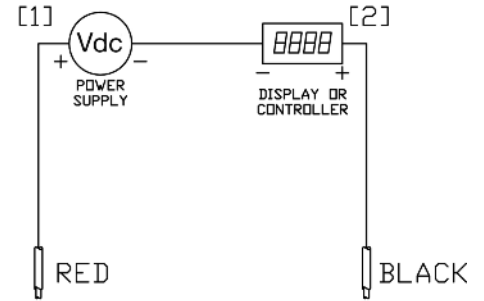
DIN 175301-803 (A)



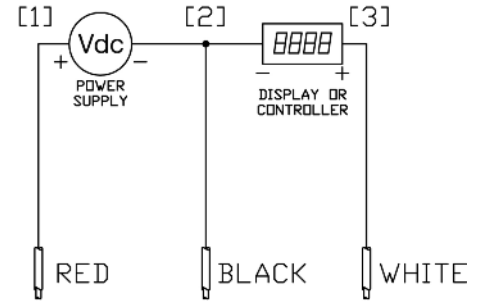
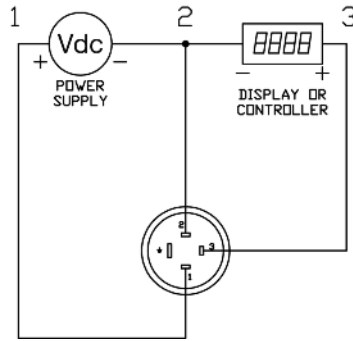
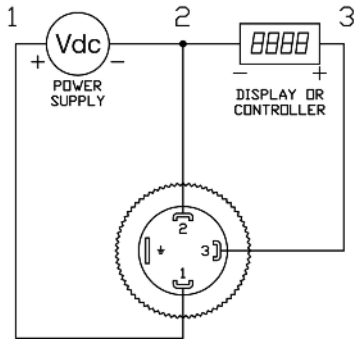
DIN 175301-803 (C)



Shielded Cable



3- Wire
Circuits
(0-10Vdc)



H.O. TRERICE Company

From its start in 1923 in Detroit, the H.O. Trerice Company has remained true to the commitment of its founder - QUALITY in both PRODUCT and SERVICE. This commitment has solidly established Trerice as a worldwide leader in the manufacture of specialized engineered products for industrial temperature and pressure measurement and control.

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