



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> <u>Recommended</u>
	4-20mA:	10Vdc	32Vdc 24Vdc
	0-10Vdc:	12Vdc	32Vdc 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

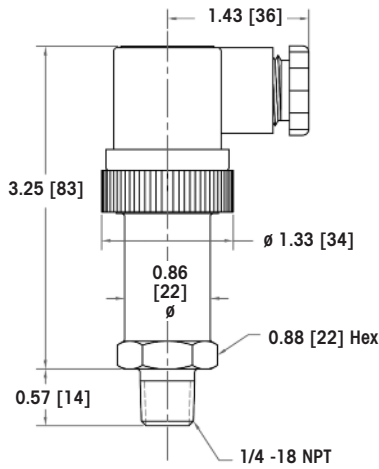
Model	Process Connection	Accuracy	Units of Measure	Range Code	Electrical Connection	Output Signal
220TST	02 1/4 NPT	C 0.5% FS (0.35% BFSL)	A psi	See Standard Ranges	E1 DIN 175301-803 (A) "std"	3 4-20mA (2-wire)
					E2 DIN 175301-803 (C) "mini"	2 0-10 Vdc (3-wire)
					E3 Shielded Cable (3 Feet)	

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

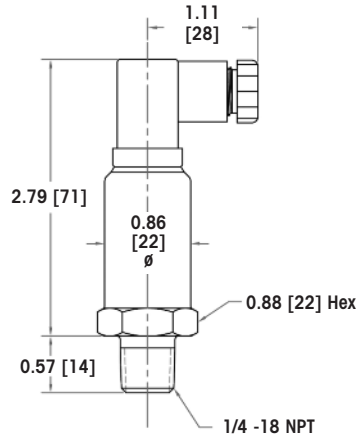
Configurations & Dimensions



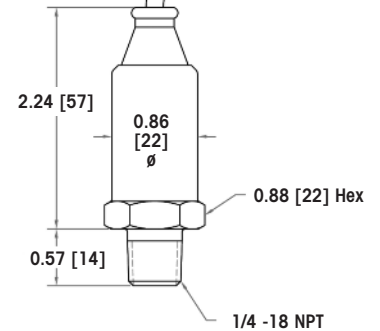
E1 90° Angle "std" Connector
DIN 175301-803 (A)



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



E3 Shielded Cable
(3 Feet)



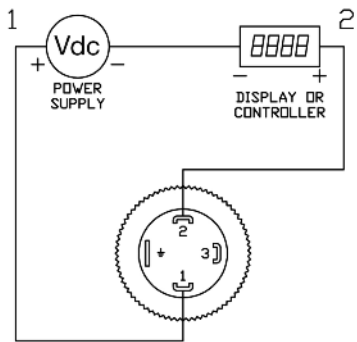
Standard Ranges

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

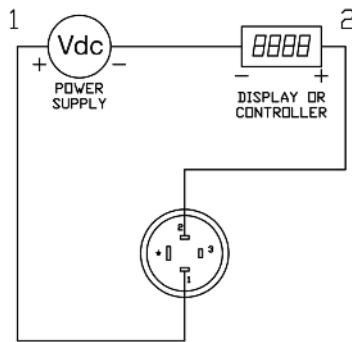
Electrical Connections Wiring Diagram

2- Wire
Circuits
(4 20mA)

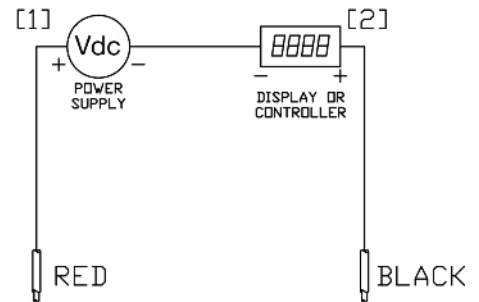
DIN 175301-803 (A)



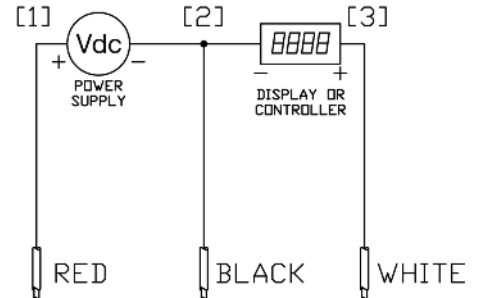
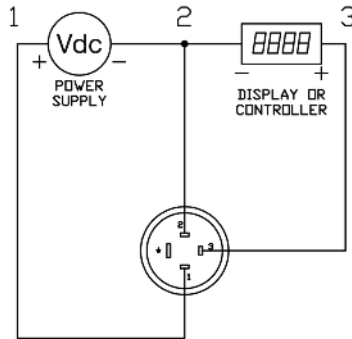
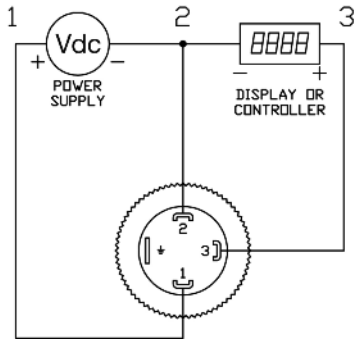
DIN 175301-803 (C)



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.

When your requirements demand quality instrumentation and controls, the broad line of Trerice products are ready for your application. Contact us today for detailed information on your particular areas of interest.



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