Electronic Temperature Switches



TX Series

TM Series



Ameritrol, Inc.

Instruments and Controls

Features

- No Moving Parts
- 316L Stainless Steel Sensor
- Temperatures to 900F
- Pressures to 10,000 PSIG
- Field Programmable for Increase or Decrease in Temperature



Standard Fast Responce Thermowell

Operation

The TX and TM series of temperature switches offer a completely electronic instrument to detect the increase or decrease of temperature. These switches are used in industrial applications including pipelines and tanks. The RTD sensor provides an extremely reliable and repeatable device at a very cost effective price.

A relay output is standard with options for dual separately adjustable set-points. Remote mounted electronics are available for process temperatures to 900F.

- Explosion Proof Enclosures
- Wide Temperature Range
- Threaded, Flanged, Retractable Probes
- Exotic Alloys for Corrosion Resistance
- Reliable and Cost Effective



Thermowell Type Sensor

Applications

- High/Low Temperature Alarm in Pipelines
- High/Low Temperature Alarm in Tanks
- Heater Burn-Out Protection
- Control Heat Tracing on Pipes
- Temperature Alarm in HVAC Systems
- Dual Switch Point for 2 Independent Set-Points

Specifications

Sensor	Head
Materia	1 of

Material of 316L Stainless Steel Standard

Construction: Optional Exotic Alloys

Operating -50 to 350F (-46 to 177C) Standard Temperature: Option -100 to 900F (-73 to 482C)

Option -320 to 500F (-196 to 260C)

Operating Vacuum to 4000 PSIG (275 Bar)
Pressure: Option to 10,000 PSIG (689 Bar)

Response Time: From 3 Seconds

Repeatability +/- 1 Degree Farenheit Process 3/4" MNPT, 1" MNPT

Connection: Option Flanged, Retractable Probes,

and 1-1/4", 1-1/2", 2", 3", 4" MNPT

Probe Length: See Part Number Specification

Electronics

Housing: Powder Coated Explosion Proof,

UL/CSA Rated to Class 1, Div. 1 & 2, Group B,C,D; Class II, Div. 1 & 2, Group E,F,G; Div. III. FM Option

Temperature: -50 to 150F (-46 to 65C)

Power Input: 90-135 VAC, 50/60 Hz, 4 Watts

Option 24 VDC/VAC, 200-240VAC

Relay Output: SPDT 3 Amps Resistive

Option DPDT and 10 Amps Res.

Electrical

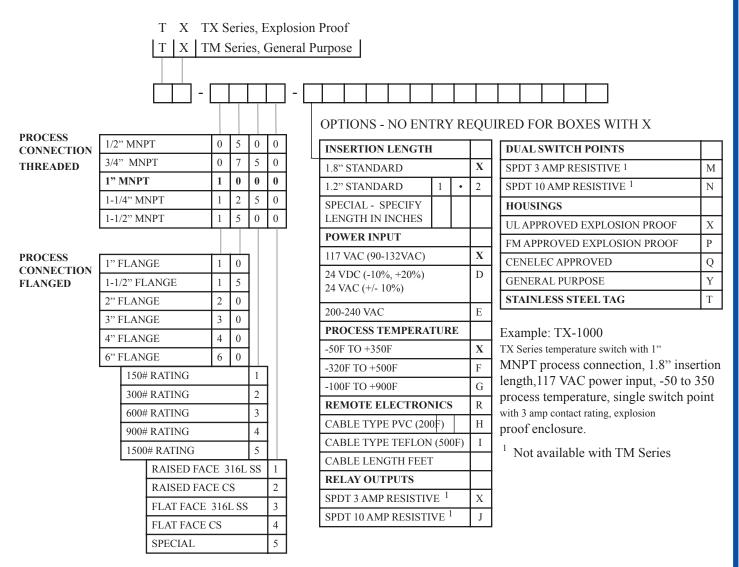
Connection: 1" FNPT

Shipping

Weight: 5 lbs

Part Number Order Entry Specification Thermowell Process Connection

TX Series, Explosion Proof	
PROCESS CONNECTION THREADED 1 1/4" Insertion Length (U) 1/2" MNPT 316 Stainless	
PROCESS CONNECTION THREADED 1 1/4" Insertion Length (U) 1/2" MNPT 316 Stainless	
1/2" MNPT 316 Stainless 0 5 0 0 S A	
1/2" MNPT 316 Stainless 0 5 0 0 S A	
3/4" MNPT 316 Stainless	
3/4" MNPT Brass	
2.5" Insertion Length (U) 1/2" MNPT 316 Stainless	
2.5" Insertion Length (U) 1/2" MNPT 316 Stainless	
1/2" MNPT 316 Stainless	
3/4" MNPT 316 Stainless 0 7 5 0 S B F -320F TO +500F	
2/42 MNIDT Deces 0 7 5 0 D D	
R REMOTE ELECTRONICS	
4.5" Insertion Length (U) H CABLE TYPE PVC (200F)	
1/2" MNPT 316 Stainless 0 5 0 0 S C I CABLE TYPE TEFLON (500F)	
3/4" MNPT 316 Stainless 0 7 5 0 S C RELAY OUTPUTS	
1" MNPT 316 Stainless 1 0 0 0 S C X SPDT 3 AMPS RESISTIVE	
7.5" Insertion Length (U) J SPDT 10 AMPS RESISTIVE	
K DPDT 3 AMPS RESISTIVE (TX SER	(SIES)
3/4" MNPT 316 Stainless 0 7 5 0 S D L DPDT 10 AMPS RESISTIVE (TX SE	RIES)
1" MNPT 316 Stainless 1 0 0 0 S D DUAL SWITCH POINTS	
10.5" Insertion Length (U) M SPDT 3 AMPS RESISTIVE (TX SER	IES)
1/2" MNPT 316 Stainless 0 5 0 0 S E N SPDT 10 AMPS RESISTIVE (TX SE	RIES)
3/4" MNPT 316 Stainless 0 7 5 0 S E HOUSINGS	
3/4" MNPT Brass 0 7 5 0 B E X UL APPROVED EXPLOSION PROC)F
P FM APPROVED EXPLOSION PROC)F
Q CENELEC APPROVED	
PROCESS CONNECTION S STAINLESS STEEL TAGS	
FLANGED 1" Flange 1 0	
1 1/2" Flange 1 5	
2" Flange 2 0 A 2" U Length	
3" Flange 3 0 C 4" U Length	
150# Rating 1 D 7" U Length	
300# Rating 2 E 10" U Length	
600# Rating 3 F 13" U Length	
900# Rating 4 G 16" U Length	
Raised Face 1 S 316 Stainless Steel	
Flat Face 2 C Carbon Steel	
M Monel	



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