

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



TX Thermowell Type Sensor



Optional Remote Electronics



TX Sanitary Thermowell



TX Sanitary Thermowell



Optional TX Flanged Thermowell

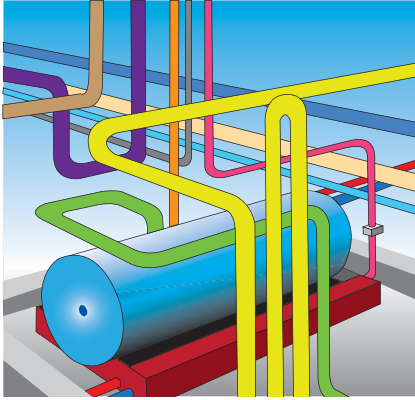


TM Extended Direct Immersion

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.



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
- Optional Sanitary compatibility available

TM Series Specifications

Sensor Head

Material of Construction:	316L Stainless Steel Standard
Operating Temperature:	-50 to +350F (-46 to +177C) Standard
Operating Pressure:	Vacuum to 4000 PSIG (275 Bar) Option to 10,000 PSIG (689 Bar)
Response Time:	From 3 Seconds
Repeatability:	+/- 1 Degree Fahrenheit
Process Connection:	½" MNPT, ¾" MNPT, 1" MNPT
Probe Length:	See Part Number Specification

Electronics

Housing:	Powder Coated General Purpose
Temperature:	-50 to +150F (-46 to +65C)
Power Input:	120 VAC, 50/60 Hz, 4 Watts; Options: 24 VDC/VAC, 240VAC
Relay Output:	SPDT 2 Amps Resistive Standard
Electrical Connection:	1" FNPT
Shipping Weight:	4 lbs

TX Series Specifications

Sensor Head

Material of Construction:	316L Stainless Steel Standard Optional Exotic Alloys
Operating Temperature:	-50 to +350F (-46 to +177C) Standard Option -100 to +900F (-73 to +482C) Option -200 to +500F (-129 to +260C)
Operating Pressure:	Vacuum to 4000 PSIG (275 Bar) Option to 10,000 PSIG (689 Bar)
Response Time:	From 3 Seconds
Repeatability:	+/- 1 Degree Fahrenheit
Process Connection:	½" MNPT, ¾" MNPT, 1" MNPT Option Flanged, other MNPT Threads See Part Number Specification
Probe Length:	See Part Number Specification

Electronics

Housing:	Powder Coated Explosion Proof, Nema 4X, UL/CSA Rated to Class 1, Div. 1 & 2, Group B,C,D; Class II, Div. 1 & 2, Group E,F,G; Class III. Option FM and Cenelec/ATEX
Temperature:	-50 to +150F (-46 to +65C)
Power Input:	120 VAC, 50/60 Hz, 4 Watts; Options: 12 VDC, 24 VDC/VAC, 240VAC
Relay Output:	SPDT 3 Amps Resistive Standard See page 4 for options
Electrical Connection:	1" FNPT
Shipping Weight:	5 lbs

