

TS01E SERIES

TEMPERATURE SWITCH WITH 2 INDEPENDENT RELAY OUTPUTS

DESCRIPTION

The TS01E Series Temperature Switch is designed to integrate two independent relays that change states using fixed temperature points within one device. The TS01E serves as an electronic thermostat control with probe mounted thermistors that sense the change in temperature within the media. In addition, the unit contains no mechanical components that can cause delay or chatter during operation. The TS01E is comprised of 316 stainless steel and is made to order in 1/4", 1/2" or 3/4" NPT mounting connections.

PRINCIPLE OF OPERATION

As the process temperature changes, the single or dual thermistors contained within the probe change resistance. The variation is compared to the factory set switch points and results in the changing state of the relays. The differential between the relay states has sufficient hysteresis to avoid switch chatter during temperature transients.

KEY FEATURES

- Single Piece Assembly
- Four Integrated Temperature Set Points
- Horizontal or Vertical Mounting Orientation
- Robust & Accurate Embedded Electronics
- No Calibration Required
- Fast Response & Accurate Temperature Control
- No Moving Parts






ENVIRONMENTAL

- Ambient Temperature:
-24 to +250 °F (-31 to +121 °C)
- Process Temperature:
-20 to +250 °F (-29 to +121 °C)
- Process Pressure: 750 PSIG (51.7 bar)
- Media: Water, Oil, Refrigerant, Chemicals

ELECTRICAL

- Input: 12 to 24 VDC
- Output: Two Independent Relay Outputs
Min: -20 °F ±10° F (-29 °C ± -12 °C)
Max: +250 °F ±10 °F (+121 °C ± -12 °C)
- Power Consumption: 50 mA
- Repeatability: > 96%
- Response Time: < 1 Second
- Warm Up Time: < 3 Seconds

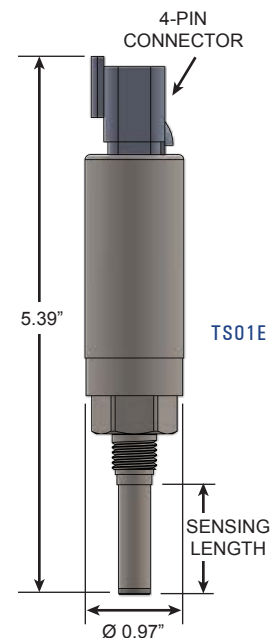
APPLICATIONS

-  Fuel Tanks
-  Chemical Processing Tanks
-  Generators
-  Pump Control & Protection
-  Combustion Fluid



TS01E

DIMENSIONS



TS01E

