HIGH LIMIT TEMPERATURE THERMOSTAT TTH Series



Precision Temperature sensing/control

FEATURES:

- Precision Thermistor
- Various Configurations Available
- Selection of Enclosures
- · Relay Output with Adjustable Setpoint
- Custom Laser Etching Available



Peace of mind through reliable temperature monitoring

GREYSTONE HAS AN ISO 9001 REGISTERED QUALITY SYSTEM

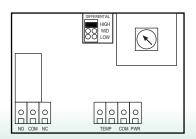
SPECIFICATIONS:

Power Supply...... 12 to 28 Vac/dc Consumption......50 mA max Relay Contacts SPDT, Form C contacts (N.O. and N.C.) 5 Amps @ 30 Vdc / 250 Vac resistive 1.5 Amps @ 30 Vdc / 250 Vac inductive Relay Action..... Activates on temperature rise Setpoint Operation...... Single-turn knob-pot on pcb Adjustable Setpoint.......38°-104°C (100°-220°F) 38°-60°C (100°-140°F) Setpoint Temperature Low/Mid/High jumper selectable Differential 1.1/2.8/5.6°C (2/5/10 °F) Temperature Sensor...... 10K ohm curve matched precision thermistor Sensor Accuracy......±0.2°C, 0 to 70°C (±0.36°F, 32 to 158°F) Probe Sensing Range......BM, CN/CS, DR, GL, RP, SO: -20 to 105°C (-4 to 221°F) **DC, DF, FL, RN/RS:** -20 to 60 °C (-4 to 140 °F) DC: Soft copper **GL:** Aluminum **SO:** Aluminum plate w/ compressible foam backing DC: 7.94 mm (0.3125") Diameter **GL:** 31.75mm L x 95.25mm W x 9.525mm H (1.25" x 0.375" x 0.375") **SO:** 38 mm (1.5") square Wire Material BM, CN/CS, GL, OS, RP, SO: PVC insulated, parallel bonded FL, DC, DF, DR, RN/RS: FT-6 Plenum-rated DR: Kynar, PVDF, 28 AWG Operating Conditions......-10 to 50°C (14 to 122°F), 5 to 95% RH non-condensing Storage Conditions......-30 to 70°C (-22 to 158°F), 5 to 95% RH, non-condensing Enclosure......(A) ABS, UL94-5VB, IP61 (NEMA 2) (D)-ABS, UL94-5VB, IP65 (NEMA 4X) Wiring Connections...... Screw terminal block

WIRING:

| *************************************** | |
|---|--|
| Terminal | Function |
| PWR | Power Supply |
| COM | Power Supply Common |
| TEMP (2) | Temperature Sensor Input |
| NO | Relay Output - Normally Open Contact |
| COM | Relay Common |
| NC | Relay Output - Normally Closed Contact |
| | |

(14 to 22 AWG)











PRODUCT ORDERING INFORMATION:

| MODEL | Product Description | |
|-------|-----------------------------------|--|
| TTH | High Limit Temperature Thermostat | |

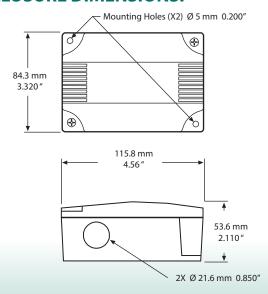
| CODE | Mounting Style |
|--|---|
| BM DC DF DR CN CS RN RS RP | Duct Duct average, copper probe Duct average, flexible cable Duct average, rigid stainless steel probe Immersion, Nylon Fitting, 1/2" NPT Immersion, Brass, Spring-loaded Fitting, 1/2" NPT Immersion w/Remote Probe, Nylon Fitting, 1/2" NPT Immersion w/Remote Probe, Spring-loaded Fitting, 1/2" NPT Strap-on - Remote Probe |
| SO OS FL GL | Strap-on - Assembly clamps around pipe with aluminum plate c/w 254 mm (10") stainless clamp O.S.A. Flying lead Glass |

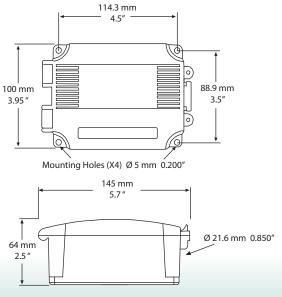
| CODE | Enclosure |
|------------|---|
| A24 D24 | ABS Enclosure ABS Enclosure, Hinged Cover |

| CODE | Probe Length | Lengths are applicable to these | Mounting Styles |
|------------------|---|--|--------------------|
| A B C D E F G | 50 mm (2") 100 mm (4") 150 mm (6") 200 mm (8") 300 mm (12") 450 mm (18") 600 mm (24") | BM, RP, RN, RS, CN & CS BM, RP, RN, RS, CN & CS BM, RP, RN, RS, CN & CS BM, RP, RN, RS, CN & CS BM BM, DR DR | OMIT FOR |
| H J K L | 900 mm (36") 1800 mm (6') 3600 mm (12') 610 mm (20') 7300 mm (24') | DR DC, DF DC, DF DC, DF DC, DF DC, DF | SO, OS, FL & GL |

| CODE | Adjustable Setpoint Range | Setpoint applicable to these Mounting Styles |
|------|---------------------------|--|
| 1 | 38°-104°C (100°-220°F) | BM, CN, CS, DR, GL, RP, SO |
| 2 | 38°-60°C (100°-140°F) | ALL |

ENCLOSURE DIMENSIONS:















TTH - PROBE TEMPERATURE THERMOSTAT CONFIGURATIONS

FEATURES:

The TTH Series High Limit Temperature Thermostat combines a precision thermistor and a relay output with adjustable setpoint in wide variety of mounting configurations. The TTH series can be interfaced with a computerized monitoring or control system.

BM) Duct Sensor – The BM is for single point monitoring. It comes with a stainless steel probe which is available with various probe lengths and enclosures.

CN/CS & RN/RS) Immersion Sensor – The CN/CS & RN/RS come in two configurations either spring loaded or non-spring loaded probes and have a 1/2" NPT fitting to be mounted into a thermowell. The RN/RS is provided with 1.524 (5°) of cable for remote mounting of the probe. It is available in various lengths and enclosures.



CN/CS)





DF, DC & DR) Duct Averaging Sensor – The DF, DC & DR models incorporate numerous sensors along the assembly and act as a single sensor averaging the temperature across the sensors. They are available in various lengths. The DF probe is constructed of FT-6 rated plenum cable which allows for easy installation. The DC probes are constructed of bendable soft copper and the DR is a constructed of rigid stainless steel. Various enclosures are available.







RP & SO) Strap-on Sensor – The RP comes with stainless steel probe and is available in several lengths and 1.5 m (5') of zip cable for remote mounting. The SO has an aluminum plate with an expandable 10" clamp assembly to strap directly to a pipe. Various enclosures are available.





OS) OSA Sensor – The OS comes in a hinged weatherproof ABS enclosure and incorporates a sun/wind shield to protect the sensor.

OS)



FL) Flying Lead – The FL comes with a 2" stainless steel probe and 1.8 m (6') of FT6 plenum rated cable for remote mounting. Various enclosures are available.





GL) Glass – The sensor is encapsulated in a 1/2" square x 2" aluminum wafer that can be affixed to any surface. It comes with 5' of zip cable and various enclosures are available.







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We have conscientiously established a worldwide reputation as an industry leader by maintaining leadingedge design technology, prompt technical support, and a commitment to on-time deliveries. We take pride in our Quality Management System which is ISO 9001 certified, assuring our customers of consistent product reliability.