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

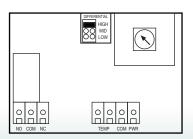
GREYSTONE HAS AN ISO 9001 REGISTERED QUALITY SYSTEM

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.....(1) 38°-104°C (100°-220°F) (2) 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, 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 (14 to 22 AWG)

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











PRODUCT ORDERING INFORMATION:

MODEL	Product Description
TTH	High Limit Temperature Thermostat

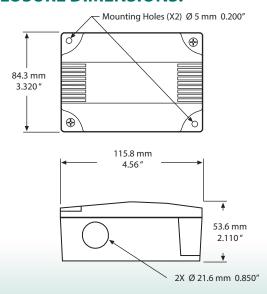
CODE	Mounting Style
BM DC DF DR CN CS RN RS RP SO OS FL GL	Duct average, copper probe Duct average, flexible cable Duct average, rigid stainless steel probe Immersion, Nylon Fitting, 1/2" NPT Immersion, Brass, Spring-loaded Fitting, 1/2" NPT Immersion w/Remote Probe, Nylon Fitting, 1/2" NPT Immersion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

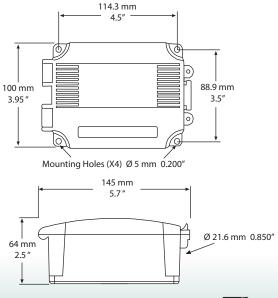
CODE	Enclosure
A24	ABS enclosure
D24	ABS Enclosure, Hinged Cover

CODE	Probe Length	Lengths are applicable to these Mo	ounting Styles
A B C D E F	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 I K L	900 mm (36") 1800 mm (6') 3600 mm (12') 6100 mm (20') 7300 mm (24")	DR DR, DF DC, DF DC, DF DC, DF DC, DF	SO, OS, FL & GL

CODE	Adjustable Setpoint Range	Setpoint applicable to these Mounting Styles
1 3	38°-104°C (100°-220°F)	BM, CN, CS, DR, GL, RP, SO
2 3	38°-160°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

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.





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.















Greystone Energy Systems Inc. is one of North America's largest ISO registered manufacturers of HVAC/R sensors and transmitters for Building Automation Management Systems. 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.