



GREYSTONE

ENERGY SYSTEMS INC

HIGH LIMIT FLYING LEAD TEMPERATURE THERMOSTAT TTHFL Series

The TTHFL single point flying lead temperature thermostat incorporates a precision thermistor temperature sensor and provides a Form C relay output (NO/NC) with an adjustable setpoint. The sensor is encapsulated in a 6.35 mm (0.25") OD X 50 mm (2"), 304 series stainless steel probe. Standard wire length is 1.83m (6'). All probes are constructed to provide excellent heat transfer, fast response and are potted to resist moisture penetration. Two enclosure styles are available.

SPECIFICATION:

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 - 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 -20 to 60 °C (-4 to 140 °F)
Probe Material 304 Series Stainless Steel
Probe Dimensions 6.35 mm (0.25") D X 50 mm (2") L
Wire Material 1.83 m (6') Plenum rated FT-6, 22 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)

Terminal

PWR
COM
TEMP (2)

NO
COM
NC

Function

Power Supply
Power Supply Common
Temperature Sensor Input

Relay Output - Normally Open Contact
Relay Common
Relay Output - Normally Closed Contact



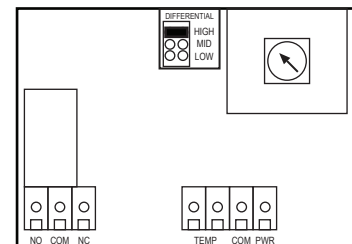
PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
TTHFL	High Limit Flying Lead Temperature Thermostat

CODE	Enclosure
A24	ABS Enclosure
D24	ABS Enclosure, Hinged Cover

CODE	Adjustable Setpoint Range
2	38 - 60°C (100 - 140°F)

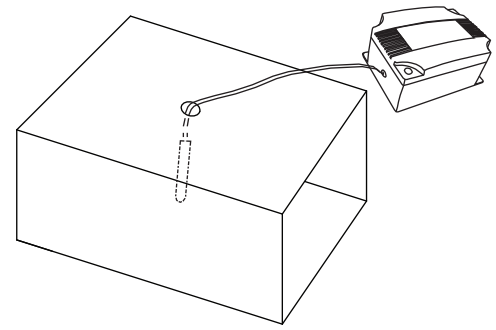


TYPICAL INSTALLATION:

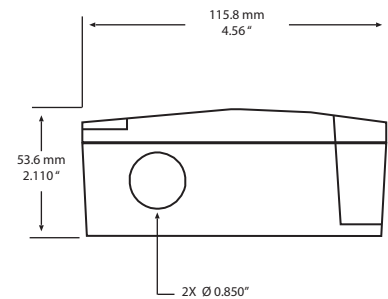
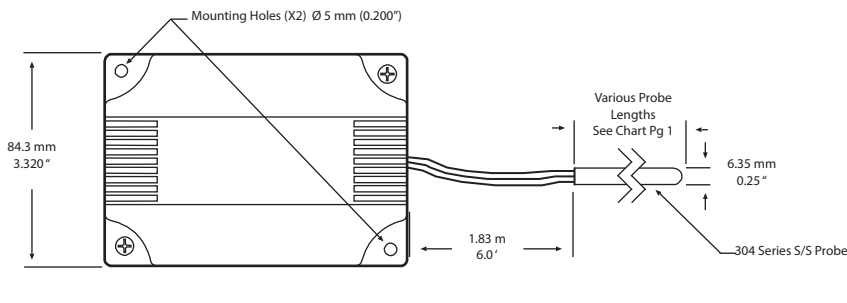
For complete installation and wiring details, please refer to the product installation instructions.

A typical application for the flying lead type probes is to monitor a single point temperature within the duct. Install the probe in a straight section of duct at a suitable distance downstream from any heating, cooling or humidification devices. Drill a 3/8 hole in the top of the duct and hang the sensor in the airstream.

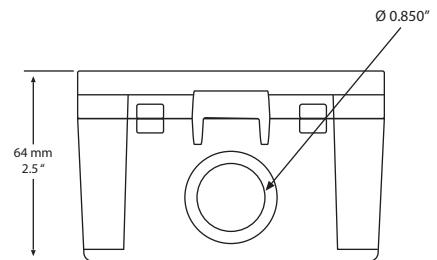
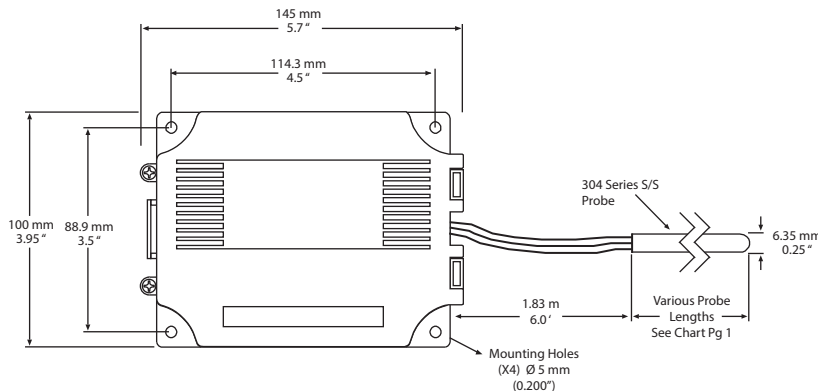
Each remote enclosure style provides mounting tabs on the outside of the enclosure for ease of installation.



ABS Enclosure (A)



Hinged ABS Enclosure (D)



Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.



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RoHS
COMPLIANT



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 leading-edge 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.

GREYSTONE HAS AN **ISO 9001** REGISTERED QUALITY SYSTEM