



HIGH LIMIT HIGH ACCURACY GLASS TEMPERATURE THERMOSTAT TTHGL Series

The TTHGL single point glass 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 31.75mm L x 9.525mm W x 9.525 mm H (1.25" x .375" x .375") Aluminum probe. Standard wire length is 600 mm (24"). All probes are constructed to provide excellent heat transfer, fast response and are potted to resist moisture penetration.

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 - 104°C (100 - 220°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 105 °C (-4 to 221 °F)
Probe Material Aluminum
Probe Dimensions..... 31.75mm L x 9.525mm W x 9.525mm H
(1.25" x 0.375" x 0.375")
Wire Material..... PVC insulated, parallel bonded
Wire Length..... 1.524 m (5')
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

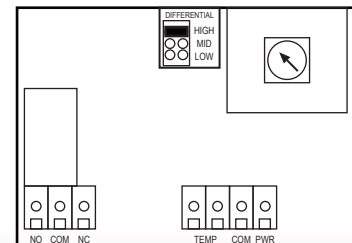
PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
TTHGL	High Limit High Accuracy Glass Temperature Thermostat

CODE	Enclosure
A24	ABS Enclosure
D24	ABS Enclosure, Hinged Cover

CODE	Adjustable Setpoint Range
1	38 - 104°C (100 - 220°F)



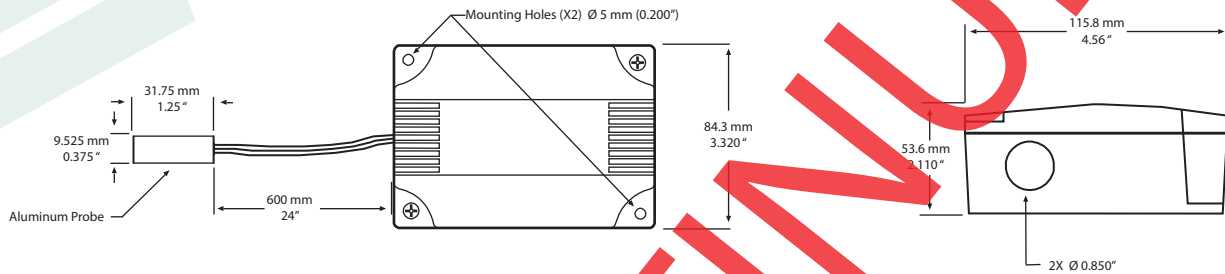
TYPICAL INSTALLATION:

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

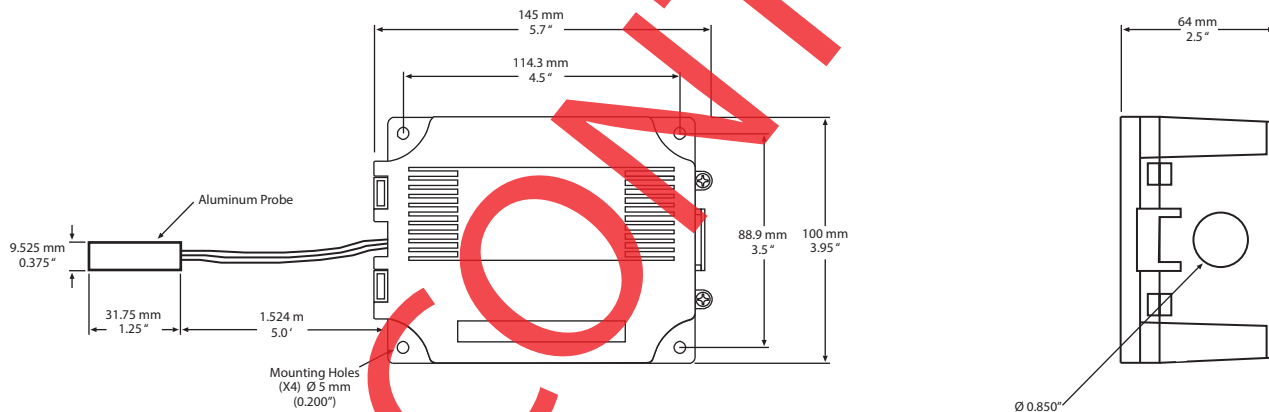
Find a suitable location on an exterior window where both the probe can be mounted. On one side apply epoxy compound and press firmly against the glass. Hold in place until the epoxy has set.

DIMENSIONS:

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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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