



# GREYSTONE

ENERGY SYSTEMS INC

## 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.)<br>5 Amps @ 30 Vdc/250 Vac resistive<br>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 95.25mm W x 9.525mm H<br>(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),<br>5 to 95% RH non-condensing  |
| Storage Conditions   | -30 to 70°C (-22 to 158°F),<br>5 to 95%RH, non-condensing   |
| Enclosure            | (A) ABS, UL94-5VB, IP61 (NEMA 2)<br>(D)-ABS, UL94-5VB, IP65 (NEMA 4X)   |
| Wiring Connections   | Screw terminal block<br>(14 to 22 AWG)  |

### PART NUMBER SELECTED

### PRODUCT SELECTION INFORMATION:

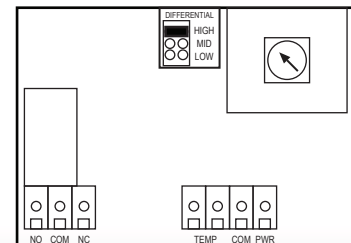
| MODEL | Product Description                                   |
|-------|---|
| TTHGL | High Limit High Accuracy Glass Temperature Thermostat |

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

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

### WIRING:

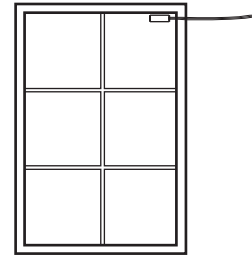
| Terminal | Function                               |
|----------|--|
| PWR      | Power Supply                           |
| COM      | Power Supply Common                    |
| TEMP (2) | Temperature Sensor Input               |
| NO       | Relay Output - Normally Open Contact   |
| COM      | Relay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



## TYPICAL INSTALLATION:

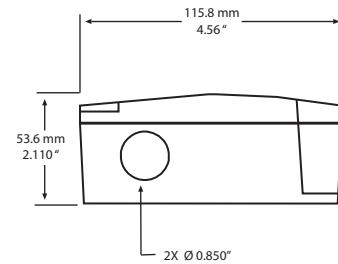
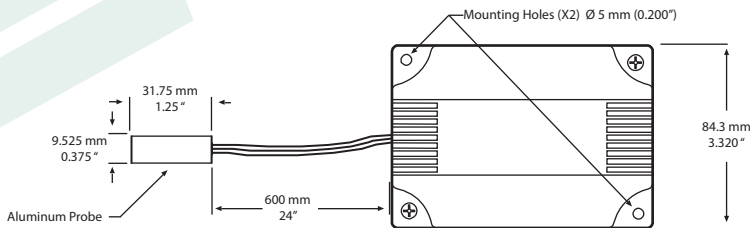
For complete installation and wiring details, please refer to the product installation instructions.

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.

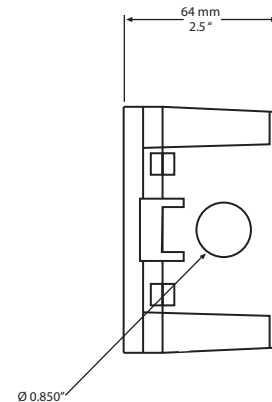
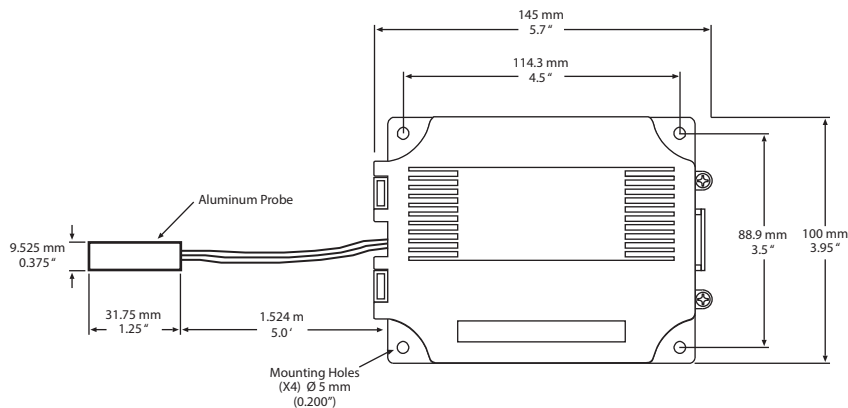


## DIMENSIONS:

### ABS Enclosure (A)



### Hinged ABS Enclosure (D)



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



**GREYSTONE**  
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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