



## LOW LIMIT HIGH ACCURACY GLASS TEMPERATURE THERMOSTAT TTLGL Series

The TTLGL 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 fall  
Setpoint Operation..... Single-turn knob-pot on pcb  
Adjustable Setpoint..... -4 to 10°C (25 to 50°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

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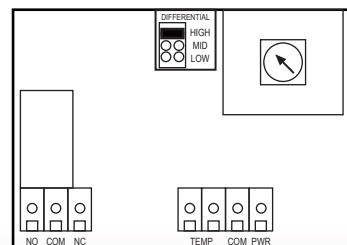
### PRODUCT SELECTION INFORMATION:

MODEL	Product Description
TTLGL	Low Limit High Accuracy Glass Temperature Thermostat

CODE	Enclosure
A24	ABS Enclosure
D24	ABS Enclosure, Hinged Cover

CODE	Adjustable Setpoint Range
1	-4 - 10°C (25 - 50°F)

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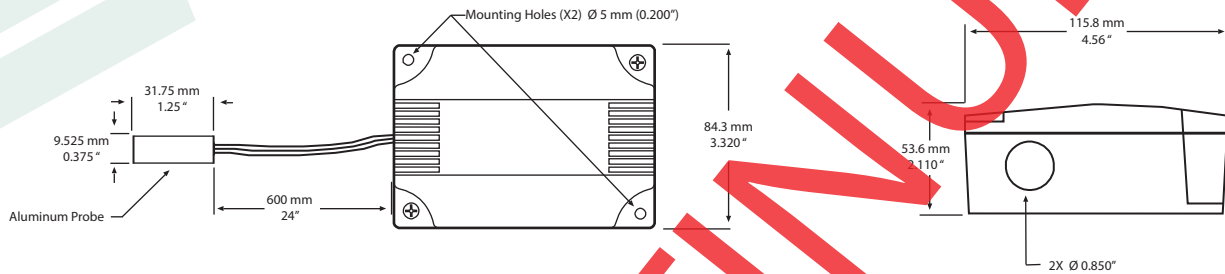
## TYPICAL INSTALLATION:

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

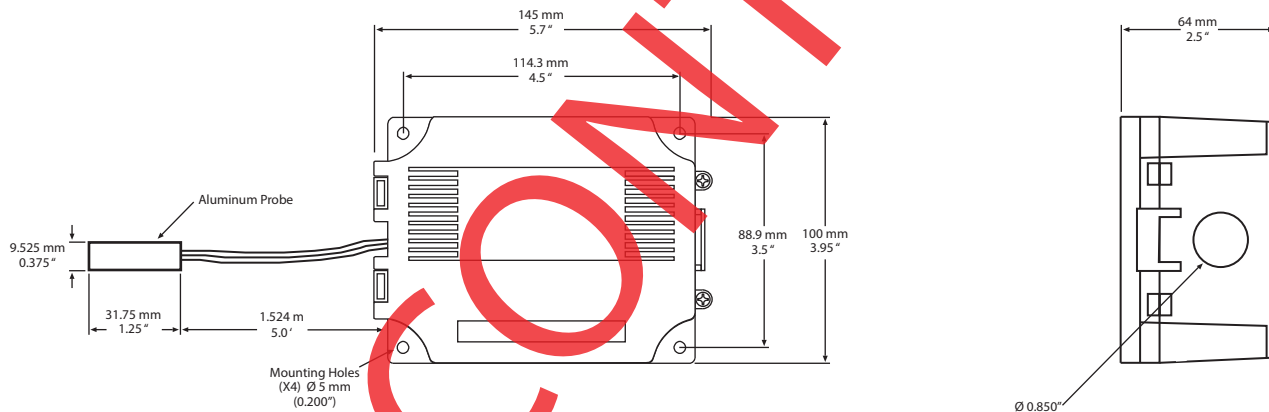
Find a suitable location on an exterior window where both the probe can be mounted. On one side apply epoxy compound and press firmly against the glass. Hold in place until the epoxy has set.

## 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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**RoHS**  
COMPLIANT



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