



# GREYSTONE ENERGY SYSTEMS INC

# GLASS LOW LIMIT THERMOSTAT TLGL Series

The single point glass low limit 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 1.5 m (5'). All probes are constructed to provide excellent heat transfer, fast response and are potted to resist moisture penetration. A weatherproof Polycarbonate enclosure is included for ease of installation.

## SPECIFICATION:

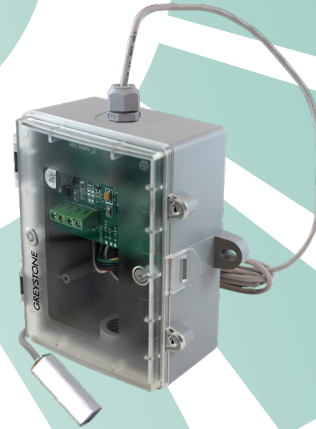
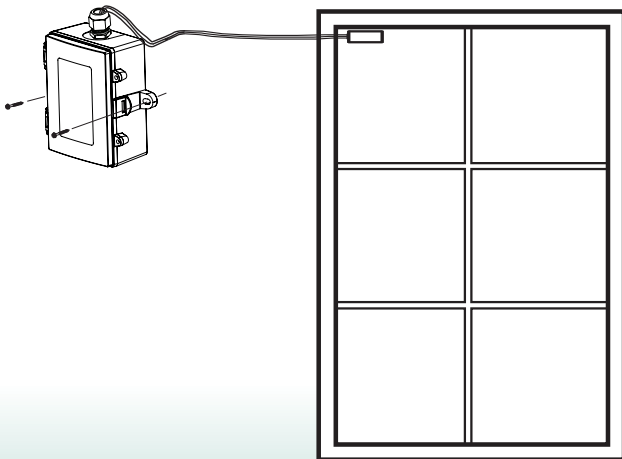
- Power Supply:.....12 to 28 Vac/dc
- Consumption:.....50 mA max
- Relay Contacts:.....SPDT, Form C contacts (N.O. and N.C.)  
5 Amps @ 30 Vac/250 Vac resistive  
1.5 Amps @ 30 Vdc/250 Vac inductive
- Relay Action:.....Activates on temperature fall
- Setpoint Operation:.....Single-turn knob-pot on PCB
- 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 Size:.....31.75 mm L x 9.525 mm W x 9.525 mm H  
(1.25" x 0.375" x 0.375")
- Wire Length:.....1.5 m (5')
- Wire Material:.....PVC insulated, parallel bonded
- 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
- Wiring Connections:.....Screw terminal block (14 to 22 AWG)
- Enclosure:.....Grey Polycarbonate UL94-V0, IP65 (NEMA 4X)  
F style includes thread adapter (1/2"NPT to M16) and cable gland fitting
- Country of Origin:.....Canada

## 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 and enclosure can be mounted. On one side apply epoxy compound and press firmly against the glass. Hold in place until the epoxy has set.

Enclosure provides mounting tabs for ease of installation.



### PART NUMBER SELECTED

### PRODUCT SELECTION INFORMATION:

MODEL	Product Description
TLGL	Glass Low Limit Thermostat

CODE	Enclosure
B	Polycarbonate, with hinged & gasketed cover
F	Same as B, with thread adapter & cable gland

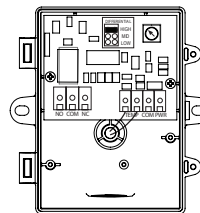
  

CODE	Sensor
24X	10,000 Ω Type 2, NTC Thermistor, ±0.2°C

CODE	Scaled Range
01	-4 to 10°C (25 to 50°F)

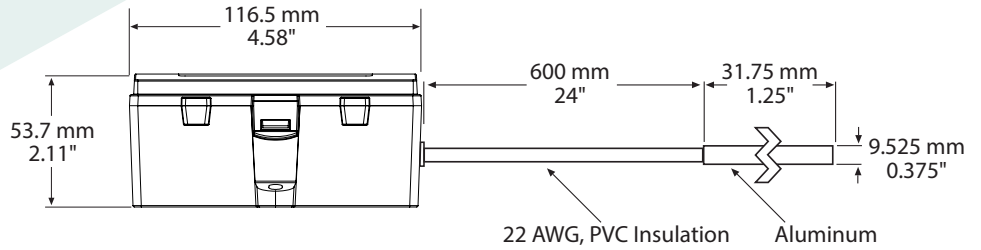
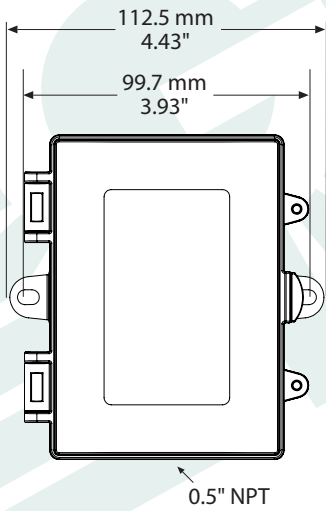
Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.



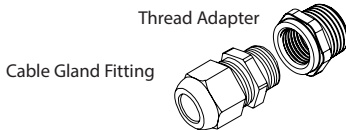
### Wiring:

<b>Terminal</b>	<b>Function</b>
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

## DIMENSIONS:



Included with F style enclosure



# GREYSTONE

ENERGY SYSTEMS INC

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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