



## HIGH LIMIT STRAP-ON TEMPERATURE THERMOSTAT TTHR Series

The TTHR single point strap-on 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, 304 stainless steel probe and is available in various lengths (see ordering chart). Standard wire length is 5' (1.5 m). 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 - 104°C (100 - 220°F)  
                                  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 - 70°C (±0.36°F, 32 - 158°F)  
 Probe Sensing Range..... -20 - 105 °C (-4 - 221 °F)  
 Probe Material ..... 304 Series Stainless Steel  
 Probe Dimensions..... 6.35 mm (0.25") Diameter  
 Wire Material..... PVC insulated, parallel bonded  
 Wire Length..... 1.524 m (5')  
 Operating Conditions ..... -10 - 50 °C (14 - 122°F),  
                                  5 to 95% RH non-condensing  
 Storage Conditions ..... -30 - 70 °C (-22 - 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)

### PART NUMBER SELECTED

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### PRODUCT SELECTION INFORMATION:

MODEL	Product Description
TTHR	High Limit Strap-On Temperature Thermostat

CODE	Enclosure
A24	ABS Enclosure
D24	ABS Enclosure, Hinged Cover

CODE	Probe Length
A	50 mm (2")
B	100 mm (4")
C	150 mm (6")
D	200 mm (8")

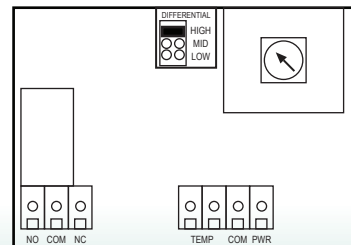
CODE	Adjustable Setpoint Range
1	38 - 104°C (100-220°F)
2	38 - 60°C (100-140°F)

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### 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

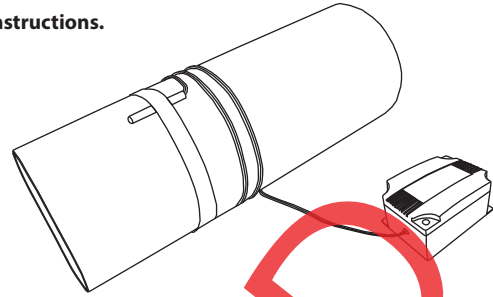


## TYPICAL INSTALLATION:

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

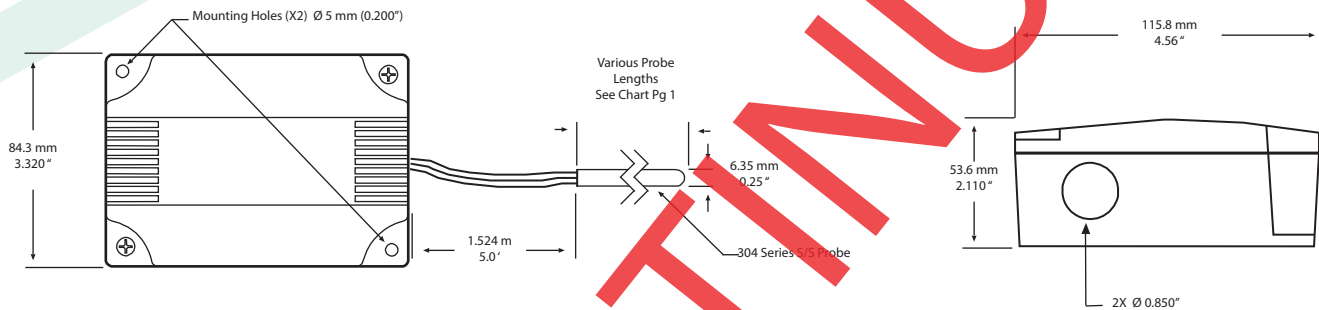
For best results, thermal conductive compound should be applied to pipe prior to mounting the probe.

Find a suitable location along the pipe where both the probe and remote enclosure can be mounted. If necessary, remove a section of insulation from pipe. Position probe directly on the pipe and secure using a pipe clamp. For added security, make 1-3 loops of the sensor cable around the pipe and feed through wire hole on the enclosure and secure using the supplied grommet. If necessary, the pipe insulation can be re-applied to the pipe over the probe.

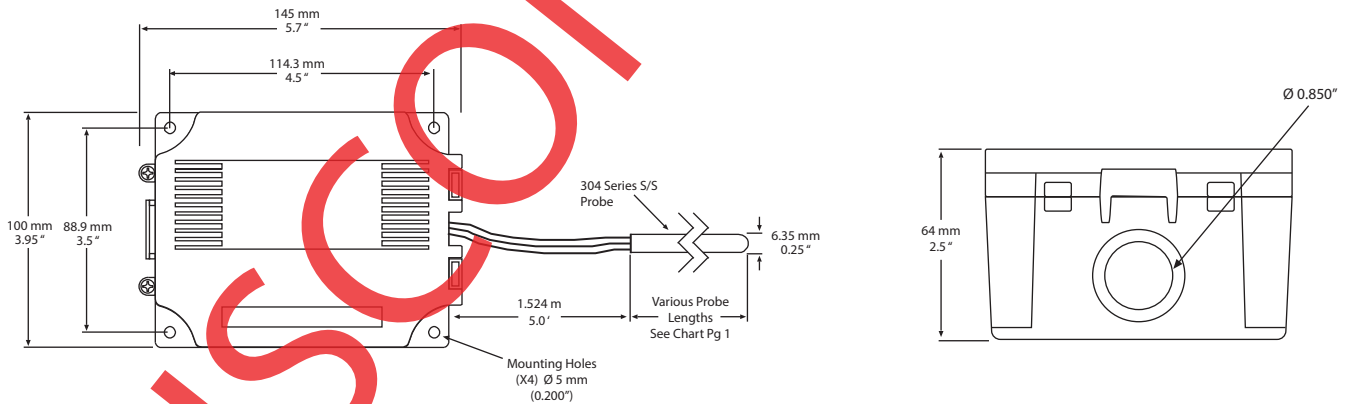


## DIMENSIONS:

### 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



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.

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