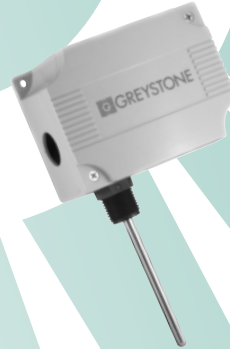




## HIGH LIMIT IMMERSION TEMPERATURE THERMOSTAT TTHC Series

The TTHC single point immersion temperature thermostat incorporates a precision thermistor temperature sensor and provides a Form C relay output (NO/NC) with an adjustable setpoint. The sensor encapsulated in a 6.35 mm (0.25") OD, 304 series stainless steel probe and is available in various lengths (see ordering chart) All probes provide excellent heat transfer, fast response and resistance to 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 to 70°C (±0.36°F, 32 to 158°F)  
 Probe sensing Range .... -20 to 105°C (-4 to 221°F)  
 Probe Material ..... 304 Series Stainless Steel  
 Probe Dimensions..... 0.25" (6.35 mm) Diameter  
 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  
 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

### PRODUCT SELECTION INFORMATION:

MODEL	Product Description
TTHC	High Limit Immersion Temperature thermostat

CODE	Fitting
N	Nylon, 1/2" NPT
S	Brass, 1/2" NPT, Spring-loaded

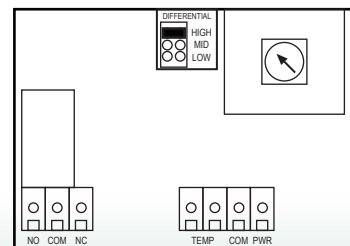
CODE	Enclosure
A24	ABS Enclosure
D24	ABS Enclosure, Hinged Cover

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)

### 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

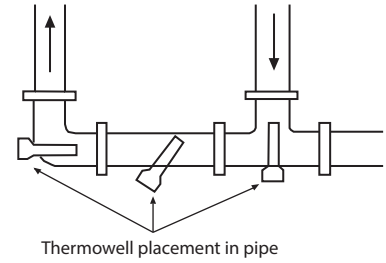
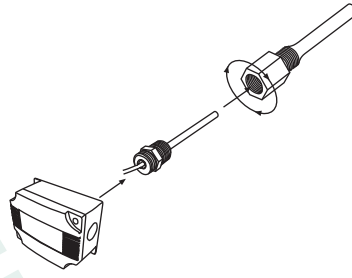


## TYPICAL INSTALLATION:

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

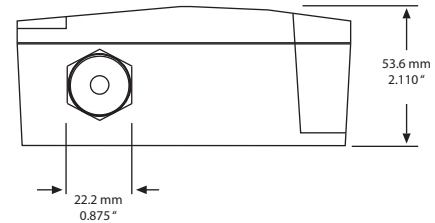
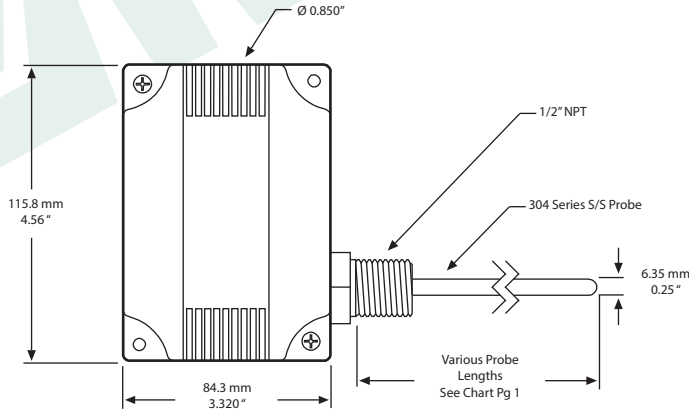
**NOTE: All immersion sensors require a thermowell (sold separately)**

The immersion type probes are installed in the appropriate length thermowell for the pipe size. Thermal conductive compound should be added inside the thermowell to provide optimum thermal transfer.

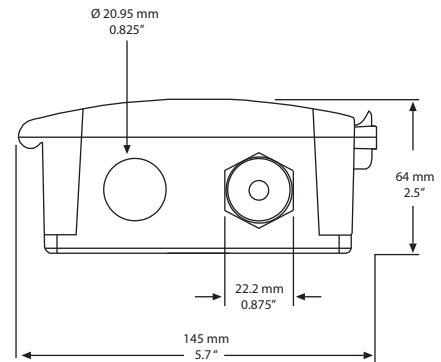
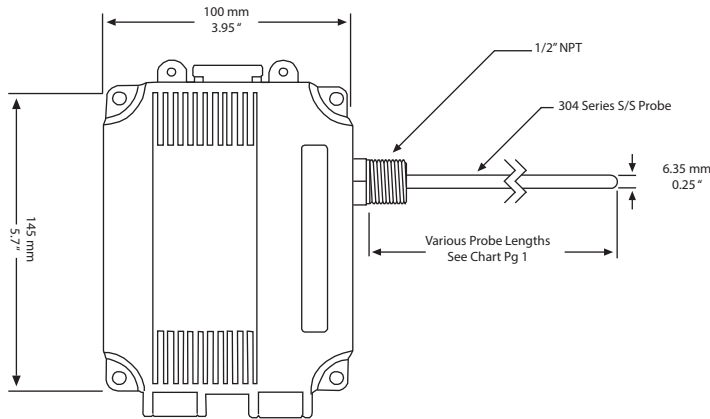


## DIMENSIONS:

### 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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