



GREYSTONE ENERGY SYSTEMS INC

HIGH LIMIT REMOTE PROBE IMMERSION TEMPERATURE THERMOSTAT TTHR Series

The TTHR is 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.....0 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° - 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 (±0.36°F), 0 to 70°C (32 to 158 °F)
Probe sensing Range -20 to 60°C (-4 to 140°F)
Wire Material..... FT-6 Rated Plenum Cable 22 AWG
Probe Material..... 304 Series Stainless Steel
Probe Dimension..... 6.35 mm (0.25") Diameter
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

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
TTHR	High Limit Remote Probe Immersion Temperature Thermostat

CODE	Enclosure
N	w/Remote Probe, Nylon Fitting
S	w/Remote Probe, Spring-loaded Fitting

CODE	Enclosure
A24	ABS Enclosure
D24	ABS Enclosure, Hinged Cover

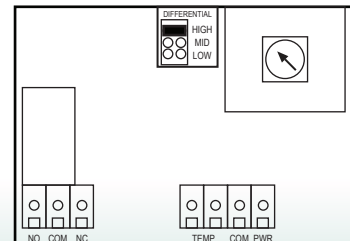
CODE	Probe Length
A	50 mm (2")
B	100 mm (4")
C	150 mm (6")
D	200 mm (8")

CODE	Adjustable Setpoint Range
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

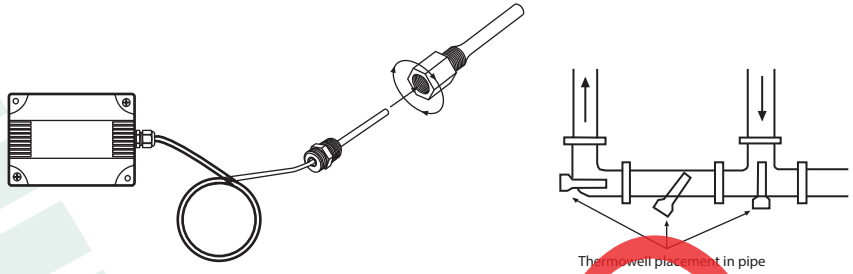


TYPICAL INSTALLATION:

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

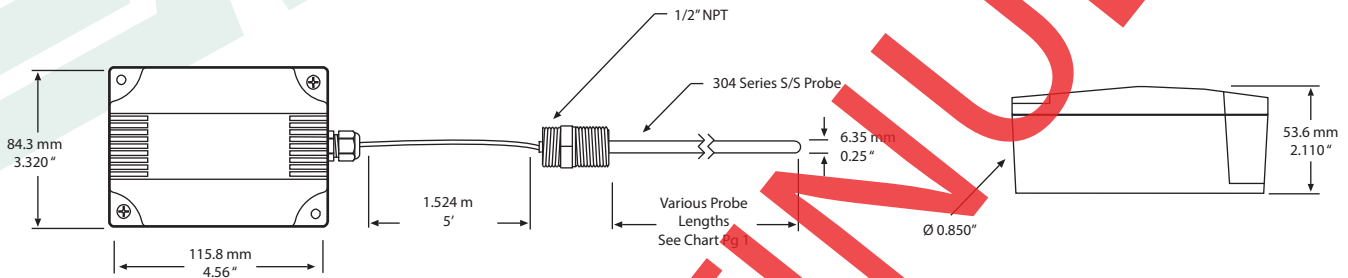
NOTE: All immersion sensors require a thermowell (sold separately)

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.

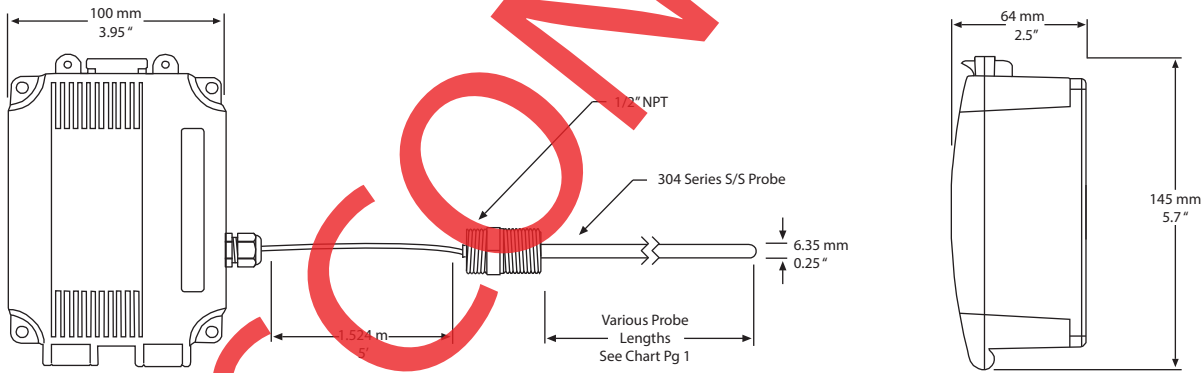


DIMENSIONS:

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.

GREYSTONE HAS AN ISO 9001 REGISTERED QUALITY SYSTEM