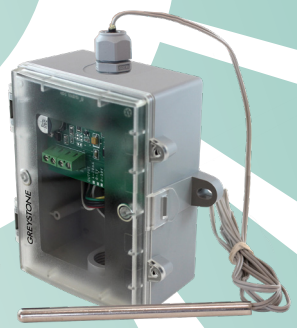
GREYSTONE
ENERGY SYSTEMS INC

REMOTE PROBE STRAP-ON HIGH LIMIT THERMOSTAT
THRP Series

The single point strap-on high 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 6 mm (0.236") 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. A weatherproof Polycarbonate enclosure is included for ease of installation.



SPECIFICATIONS:

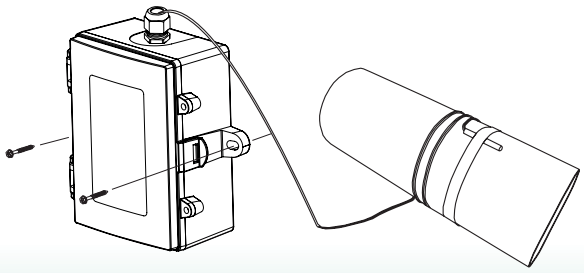
Power Supply:.....12 to 28 Vac/dc
Consumption:.....50 mA max
Relay Contacts:.....SPDT, Form C contacts (N.O. and N.C.)
5 Amps @ 30 Vac/250 Vac resistive
1.5 Amps @ 30 Vdc/250 Vac inductive
Relay Action:.....Activates on temperature rise
Setpoint Operation:.....Single-turn knob-pot on PCB
Adjustable Setpoint:.....**Range 1:** 38 to 104°C (100 to 221°F)
Range 2: 38 to 60°C (100 to 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 Diameter:.....6 mm (0.236")
Probe Length:.....50 mm, 100 mm, 150 mm, 200 mm (2", 4", 6", 8")
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.

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 to 3 loops of the sensor cable around the pipe and feed through wire hole on the enclosure and secure using the supplied grommet. If applicable, the pipe insulation can be re-applied to the pipe over the probe.



PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
THRP	Remote Probe Strap-On High Limit Thermostat

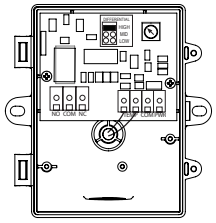
CODE	Enclosure
B	Polycarbonate, with hinged & gasketed cover
F	Same as B, with thread adapter & cable gland fitting

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

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

CODE	Adjustable Setpoint Range
01	38 to 104°C (100 to 221°F)
02	38 to 60°C (100 to 140°F)

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

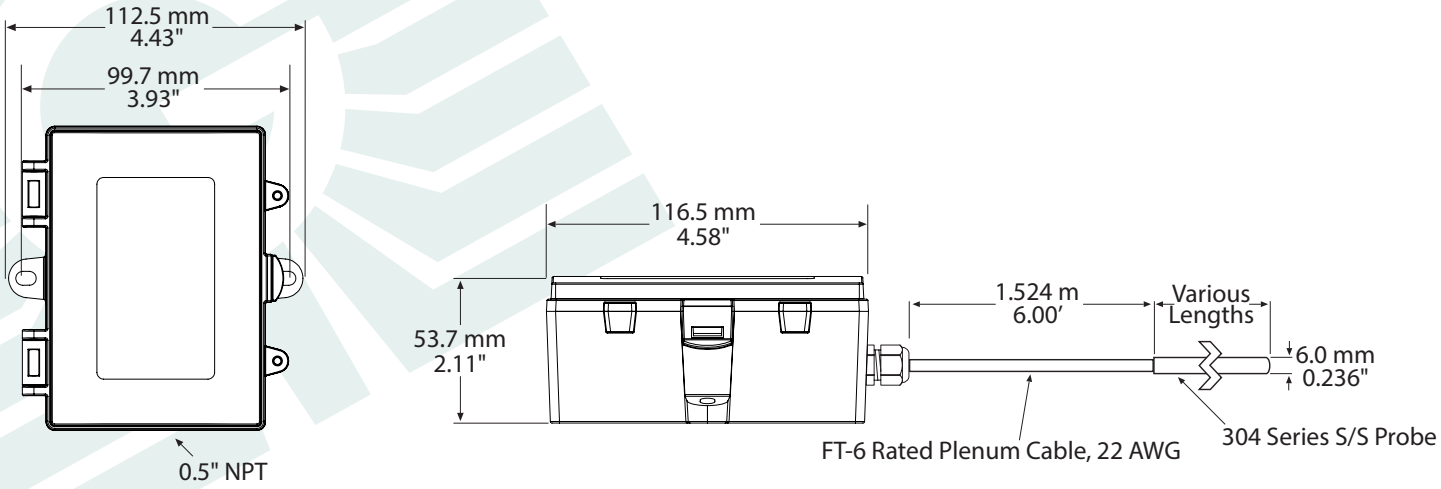


Wiring:

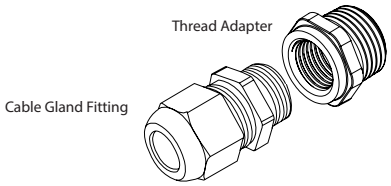
Terminal	Function
PWR	Power Supply
COM	Power Supply Common
TEMP (2)	Temperature Sensor Input
NO	Relay Output - Normally Open Contact
COM	Relay Common
NC	Relay Output - Normally Closed Contact

RoHS COMPLIANT
5 Year Warranty
MADE IN CANADA
ISO9001

DIMENSIONS:



Included with F style enclosure



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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

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