



LOW LIMIT STRAP-ON TEMPERATURE THERMOSTAT TTLSO Series

The TTLSO 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 to a 38 mm x 38 mm (1.5" x 1.5") aluminum plate and adhered to a 38 mm x 25.4 mm (1.5 x 1") compressible foam. A 254 mm (10") S/S Pipe clamp is provided to secure the assembly to various sizes of pipe. All probes are constructed to provide excellent heat transfer, fast response and are potted to resist moisture penetration. It is available with a variety of enclosures.



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 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 38 mm (1.5") square aluminum plate w/ compressible foam backing
- 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:

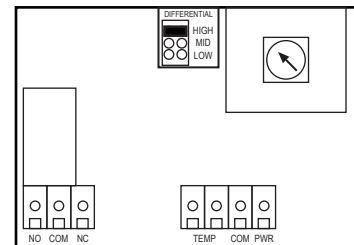
MODEL	Product Description
TTLSO	Low Limit Slap-on Temperature Thermostat

CODE	Enclosure
A24	ABS Enclosure
D24	ABS Enclosure, Hinged Cover

CODE	Adjustable Setpoint Range
1	-4 - 10°C (25 - 50°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



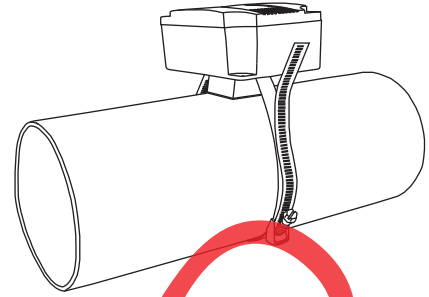
TYPICAL INSTALLATION:

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

The TTLSO series can be mounted directly to various sizes of pipes and secured using a 10" S/S pipe clamp. If necessary, remove a section of insulation from the pipe. The 10" S/S pipe clamp is a "Quick Release" type and can be separated by moving the tightening screw so that it is perpendicular to the clamp and slide the clamp apart. Position the aluminum plate on the pipe so it makes the best contact, wrap the clamp around the pipe and re-assemble and tighten. Any excess clamp may be cut off.

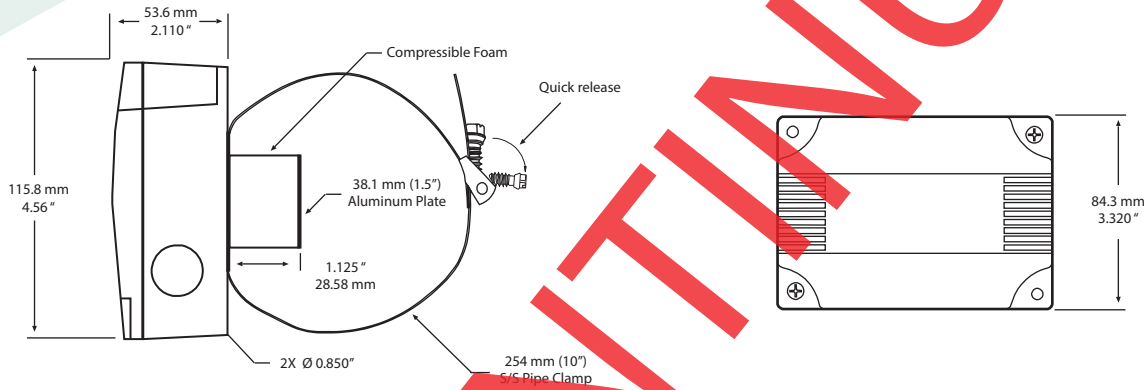
For best results, thermal conductive compound should be applied to pipe prior to mounting the probe.

Wiring connections are made inside the enclosure.

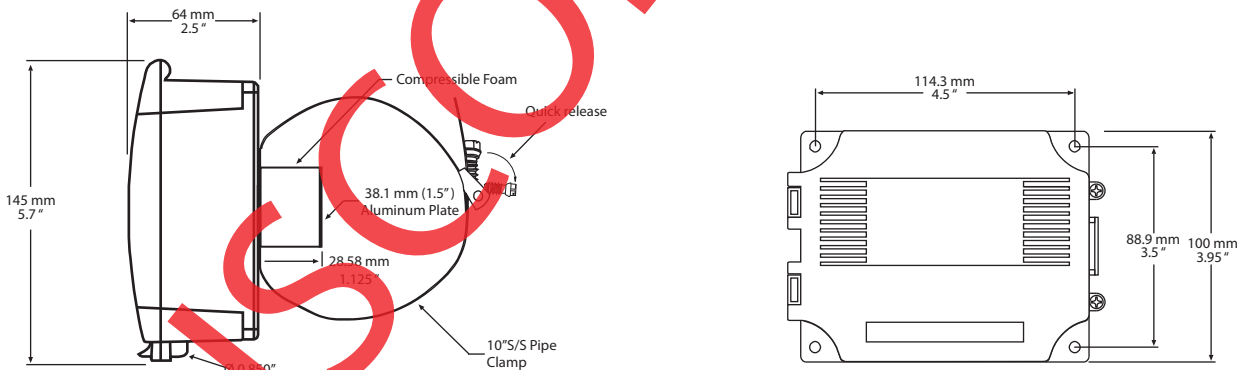


DIMENSIONS:

ABS Enclosure (A)



Round ABS Enclosure (D)



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



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RoHS
COMPLIANT



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GREYSTONE HAS AN ISO 9001 REGISTERED QUALITY SYSTEM