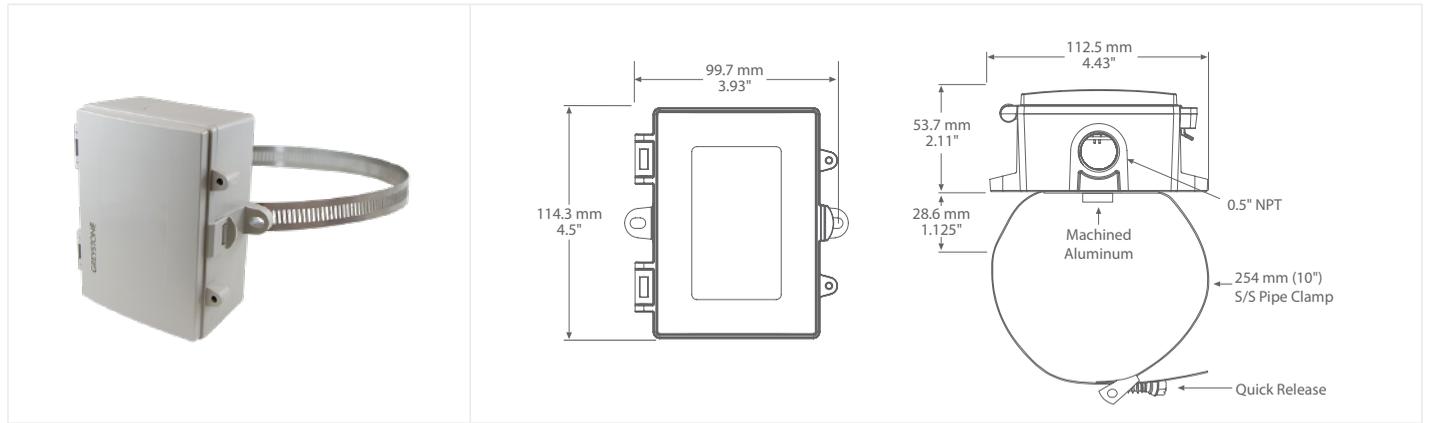




STRAP-ON LOW LIMIT THERMOSTAT



TLSO SERIES

PRODUCT DESCRIPTION

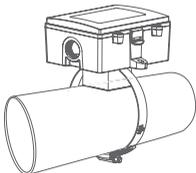
The single point strap-on low limit thermostat incorporates a precision thermistor temperature sensor and provides a Form C relay output (NO/NC) with an adjustable setpoint. The sensor is encapsulated in a 38.1 mm x 12.7 mm (1.5" x 0.5") machined aluminum heat sink. A 254 mm (10") S/S Pipe clamp is provided 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. A hinged and gasketed Polycarbonate enclosure is included for ease of installation.

TYPICAL INSTALLATION

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

The strap-on temperature transmitter series can be mounted directly to various sizes of pipes and secured using a 254 mm (10") S/S pipe clamp. If necessary, remove a section of insulation from the pipe. The 254 mm (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.

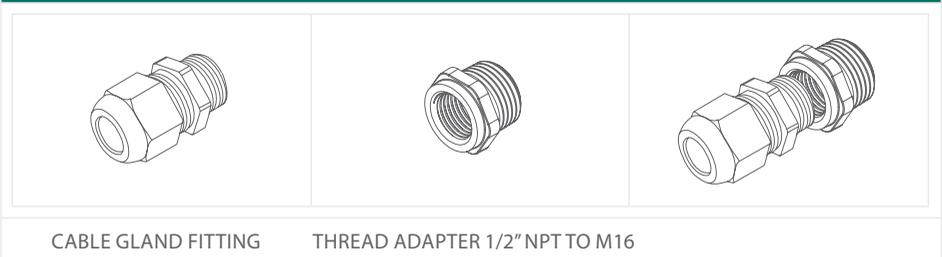
Wiring connections are made inside the enclosure.



SPECIFICATIONS

POWER SUPPLY	12 to 28 Vac/dc
SENSOR ACCURACY	±0.2°C, 0 to 70°C (±0.36°F, 32 to 158°F)
PROBE SENSING RANGE	-40 to 100°C (-40 to 212°F)
PROBE MATERIAL	Machined aluminum heat sink
PROBE DIMENSIONS	38.1mm x 12.7mm (1.5" x 0.5")
WIRE MATERIAL	PVC insulated, parallel bonded
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)
TEMPERATURE DIFFERENTIAL	Low: 1.1°C (2°F) Mid: 2.8°C (5°F) High: 5.6°C (10°F) Jumper selectable
TEMPERATURE SENSOR	10,000Ω curve matched precision thermistor
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	B: Grey polycarbonate UL94-V0, IP65 (NEMA 4X) F: Same as B with thread adapter (1/2" NPT to M16) and cable gland fitting
COUNTRY OF ORIGIN	Canada

ACCESSORIES - INCLUDED WITH F ENCLOSURE OPTION

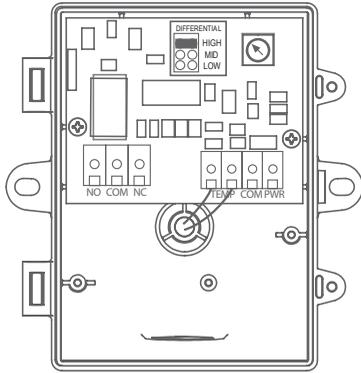


CABLE GLAND FITTING

THREAD ADAPTER 1/2" NPT TO M16



WIRING INFORMATION



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

ORDERING

PRODUCT	TLSO	Strap-on Low Limit Thermostat
ENCLOSURE	B F	Polycarbonate, with hinged and gasketed cover Same as B, with thread adapter and cable gland fitting
SENSOR	24X	10,000Ω, Type 2, NTC Thermistor, ±0.2°C
ADJUSTABLE SETPOINT RANGE	01	-4 to 10°C (25 to 50°F)

PART NUMBER

TLSO

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