GREYSTONE ENERGY SYSTEMS INC

STRAP-ON LOW LIMIT THERMOSTAT TLSO Series

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 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. A weatherproof Polycarbonate enclosure is included for ease of installation.

SPECIFICATIONS:

Power Supply:	
Consumption:	
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 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:	
Sensor Accuracy:	±0.2°C, 0 to 70°C (±0.36°F, 32 to 158°F)
	20 to 105°C (-4 to 221°F)
Probe Material:	Aluminum plate w/ compressible foam backing
Probe Diameter:	
	PVC insulated, parallel bonded
	10 to 50°C (14 to 122°F), 5 to 95% RH, non-condensing
	30 to 70°C (-22 to 158°F), 5 to 95% RH, non-condensing
	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.

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.



PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MO	DEL	Prod	Product Description Strap-on Low Limit Thermostat						
TL	so	Strap							
		COL	DE	Enclosure					
		B	· · · · · · · · · · · · · · · · · · ·						
				со	DE	Sensor			
				24	X	10,000 Ω Type 2, NTC Thermistor, $\pm 0.2^\circ C$			
						CODE	Adjustable Setpoint Range		
						01	-4 to 10°C (25 to 50°F)		
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Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.



Wiring: Terminal PWR

COM TEMP (2)

NO

NC

COM

Function Power Supply Power Supply Common Temperature Sensor Input

Relay Output - Normally Open Contact Relay Common Relay Output - Normally Closed Contact

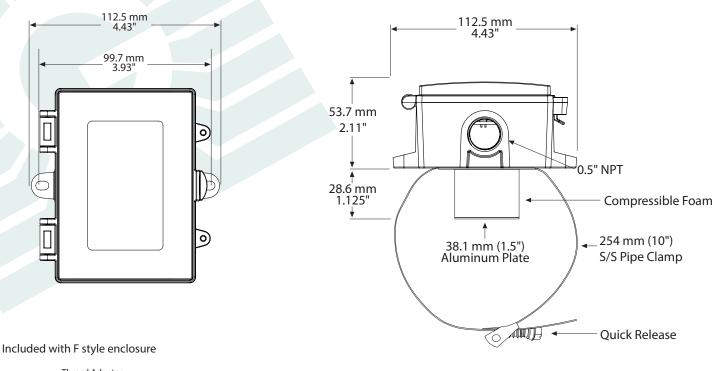








DIMENSIONS:







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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 leadingedge 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.