

HIGH LIMIT STRAP-ON TEMPERATURE THERMOSTAT TTHSO Series

The TTHSO 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 Supply12 to 28 Vac/dc
Consumption50 mA max
Relay Contacts
Relay Action Activates on temperature rise
Setpoint OperationSingle-turn knob-pot on pcb
Adjustable Setpoint 38 - 104°C (100 - 220°F)
Setpoint Temperature Low/Mid/High jumper selectable Differential 1.1/2.8/5.6 °C (2/5/10 °F)
Temperature Sensor10K ohm curve matched precision thermistor
Sensor Accuracy±0.2°C, 0 to 70°C (±0.36°F, 32 to 158°F)
Probe Sensing Range20 - 105 °C (-4 - 221 °F)
Probe Material
Wire MaterialPVC insulated, parallel bonded
Operating Conditions10 - 50°C (14 - 122°F), 5 to 95% RH non-condensing
Storage Conditions30 - 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 ConnectionsScrew terminal block (14 to 22 AWG)

#### **PART NUMBER SELECTED**

# **PRODUCT SELECTION INFORMATION:**

ı	MOI	DEL	Product Description				
	TTH	ISO	High Limit Slap-on Temperature Thermostat				
			COL	DE	Enclosure		
		A2-	-	ABS Enclosure ABS Enclosure, Hinged Cover			
					CODE	Adjustable Setpoint Range	
					1 2	38 -104°C (100-220°F) 38 -60°C (100-140°F)	
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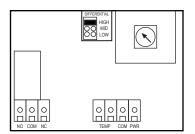
## **WIRING:**

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













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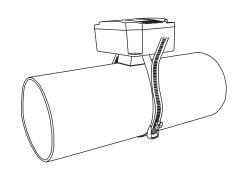
# **TYPICAL INSTALLATION:**

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. Postion 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.

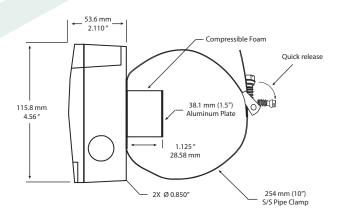
For best results, thermal conductive compound should be applied to pipe prior to mounting the probe.

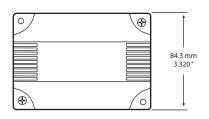
Wiring connections are made inside the enclosure.



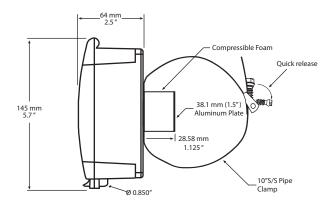
# **DIMENSIONS:**

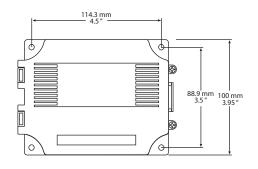
### **ABS Enclosure (A)**





#### Round ABS Enclosure (D)





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



Greystone Energy Systems, Inc. 150 English Drive, Moncton, New Brunswick, Canada E1E 4G7

(506) 853-3057 Fax: (506) 853-6014 North America: 1-800-561-5611 e-mail: mail@greystoneenergy.com www.greystoneenergy.com









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.