GREYSTONE
ENERGY SYSTEMS INC

LOW LIMIT DUCT TEMPERATURE THERMOSTAT TTLBM Series

The TTLBM single point duct 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 in a 6.35 mm (0.25") OD, 304 stainless steel probe and is available in various lengths (see ordering chart). All probes provide excellent heat transfer, fast response and resist moisture penetration. Two enclosure styles are available.

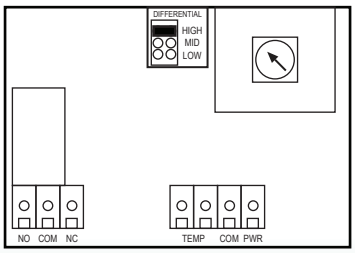
DISCONTINUED

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 Differential	Low/Mid/High jumper selectable 1.1/2.8/5.6°C (2/5/10 ˚F)
Temperature Sensor	10K ohm curve matched precision thermistor
Sensor Accuracy	±0.2˚C (±0.36˚F), 0 to 70˚C (32 to 158˚F)
Probe Sensing Range	-20 to 105˚C (-4 to 221˚F)
Wire Material	PVC insulated, parallel bonded
Probe Material	304 Series Stainless Steel
Probe Dimension	6.35 mm (0.25") Diameter
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)

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



PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
TTLBM	Low Limit Duct Temperature Thermostat

CODE	Enclosure
A24	ABS Enclosure
D24	ABS Enclosure, Hinged Cover

CODE	Probe Length
A	50 mm (2")
B	100 mm (4")
C	150 mm (6")
D	200 mm (8")
E	300 mm (12")
F	450 mm (18")

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

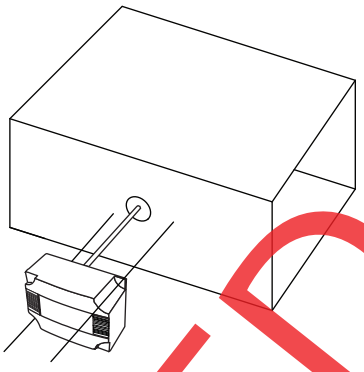
RoHS COMPLIANT

TYPICAL INSTALLATION:

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

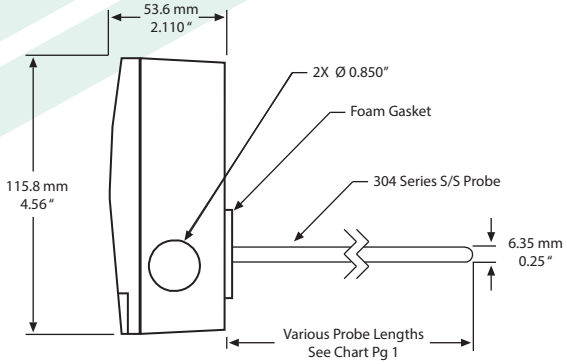
The duct type probes are installed through a hole in the side of the duct to monitor a single point temperature within the duct. Since the probes are tip sensitive, select a probe length that places the sensor well into the duct. Install the probe in a straight section of duct at a suitable distance downstream from any heating, cooling or humidification devices.

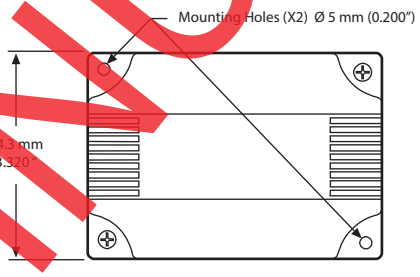
Each enclosure style provides mounting tabs or holes for ease of installation.



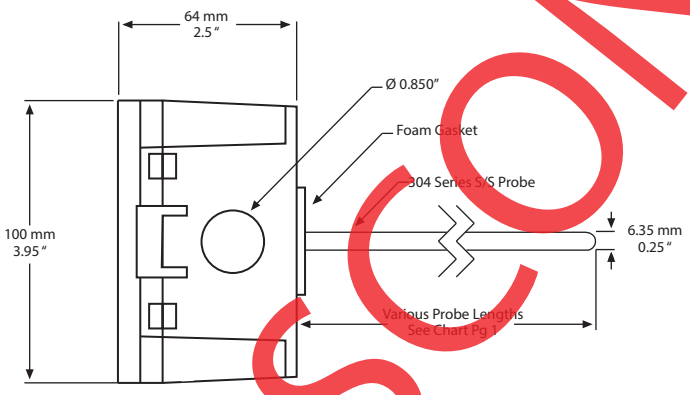
DIMENSIONS:

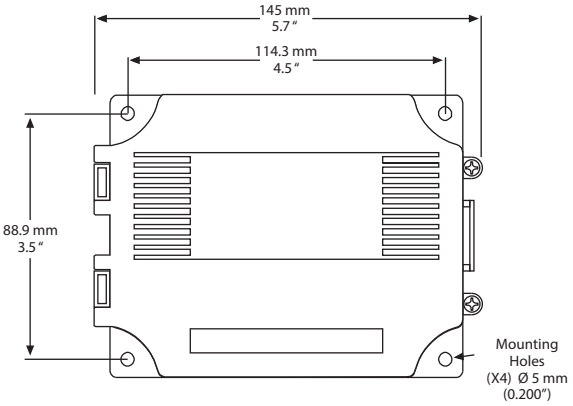
ABS Enclosure (A)





Hinged ABS Enclosure (D)





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

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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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