GREYSTONE
ENERGY SYSTEMS INC

HIGH LIMIT FLEX DUCT AVERAGE TEMPERATURE THERMOSTAT TTHDF Series

The TTHDF flexible, multi-point duct averaging temperature thermostat incorporates several precision thermistor temperature sensors and provides a Form C relay output (NO/NC) with an adjustable setpoint. The probe is FT6 plenum rated cable and is available in various lengths (see ordering chart). All probes are constructed to provide excellent heat transfer and a fast response. 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 rise
Setpoint Operation	Single-turn knob-pot on pcb
Adjustable Setpoint	38° - 60°C (100 - 140°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 to 70°C (±0.36°F, 32 to 158°F)
Temperature Range	-20 to 60 °C (-4 to 140 °F)
Wire Material	FT-6 Plenum rated cable
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
TTHDF	High Limit Flex Duct Average Temperature Thermostat

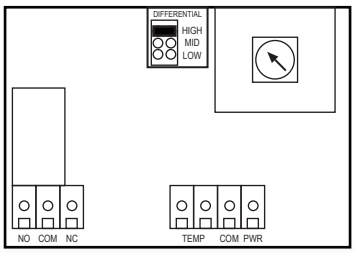
CODE	Enclosure
A24	ABS Enclosure
D24	ABS Enclosure, Hinged Cover

CODE	Cable Length
I	1800 mm (6')
J	3600 mm (12')
K	6100 mm (20')
L	7300 mm (24')

CODE	Adjustable Setpoint Range
2	38°- 60°C (100° - 140°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



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MADE IN CANADA

ISO9001

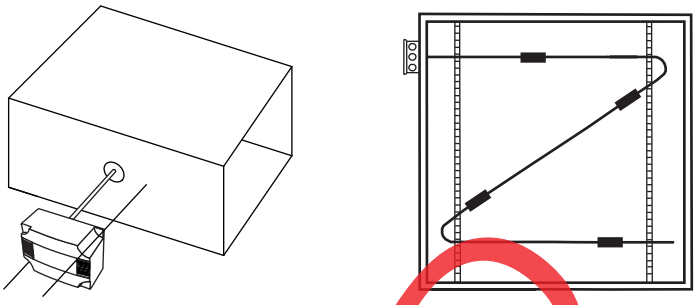
CE

TYPICAL INSTALLATION:

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

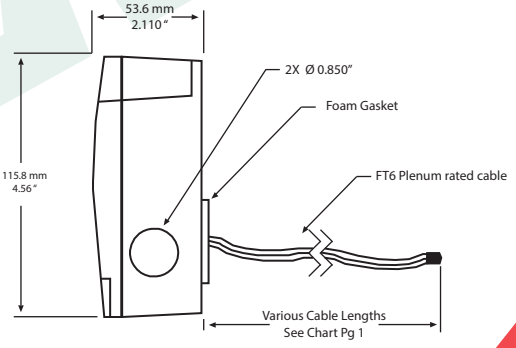
The Flex-duct average sensing cable is installed through a hole in the side of the duct to monitor an average temperature within the duct. Select a probe length that allows for criss-crossing the duct multiple times. Install the probes in a straight section of duct at a suitable distance downstream from any heating, cooling or humidification elements.

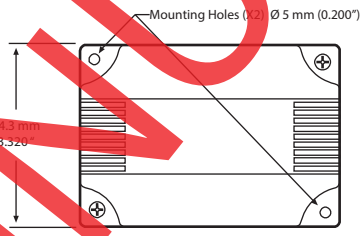
Each enclosure style provides mounting tabs on the outside for ease of installation.



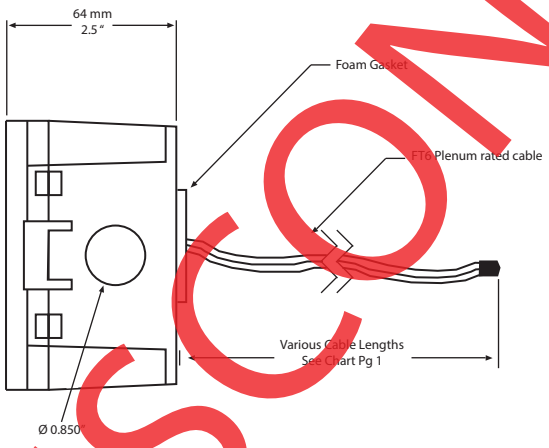
DIMENSIONS:

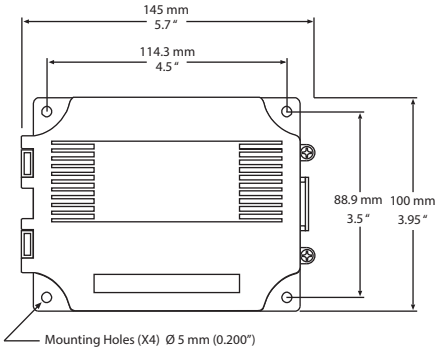
ABS Enclosure (A)





Hinged ABS Enclosure (D)





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

GREYSTONE
ENERGY SYSTEMS INC

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

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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