



GREYSTONE ENERGY SYSTEMS INC

DUCT AVERAGE TEMPERATURE SENSOR TE200D Series

The TE200D series multi-point (DC is continuous) duct temperature sensor utilizes several precision sensors space at equal distances and encapsulated in a 7.94 mm (0.3125") OD, soft copper probe and is available in various lengths (see ordering chart). All probes provide excellent heat transfer, fast response and resistance to moisture penetration. It is available with a variety of enclosures.

SPECIFICATION:

Sensor Type	Thermistor or RTD See Ordering Chart
Temperature Range	-20 to 60 °C (-4 to 140 °F) Higher Ranges Available Contact Greystone
Wire Material	FT-6 Plenum-rated
Probe Material	Soft copper
Probe Dimensions	7.94 mm (0.3125") Diameter
Enclosure	Standard - ABS - UL94-5VB - IP61 (NEMA 2) Round (E) - ABS - UL94-V5 B- IP65 (NEMA4X) Metal (M) - Gal. Steel - IP50 (NEMA1) Weatherproof (W) - Cast Alum. IP64 (NEMA3X) *In order to maintain the published NEMA/IP ratings, properly rated conduit or cable gland adapters must be used.
Termination	Pigtail 2 or 3 wire Terminal block with (E) enclosure



PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
TE200D	Multi-point Duct Average Temperature Sensor
TE200DC	Continuous Duct Average Temperature Sensor (Available in Type 12, 1000 Ω Plat. only)

CODE	Enclosure (ABS enclosure is standard)
-	ABS enclosure, standard (no code required, leave blank)
E	Round ABS, w/gasketed cover
M	Metal utility box
W	Aluminum weatherproof box

CODE	Sensor
2	100 Ω Platinum, IEC 751, 385 Alpha, thin film
5	1801 Ω, NTC Thermistor, ±0.2 C
6	3000 Ω, NTC Thermistor, ±0.2 C
7	10,000 Ω, type 3, NTC Thermistor, ±0.2 C
8	2.252 KΩ, NTC Thermistor, ±0.2 C
12	PT1000-1000 Ω Platinum, IEC 751, 385 Alpha, thin film
13	1000 Ω Nickel, Class B, DIN 43760
14	10,000 Ω, type 3, NTC Thermistor, ±0.2 C c/w 11K shunt resistor
20	20,000 Ω, NTC Thermistor, ±0.2 C
24	10,000 Ω, type 2, NTC Thermistor, ±0.2 C

CODE	Probe Length/Sensor qty for multi-point
G3	1800 mm (6') (4 Sensors) N/A on DC
H3	3600 mm (12') (4 Sensors)
I3	6100 mm (20') (4 Sensors) N/A on DC
J3	7300 mm (24') (9 Sensors)

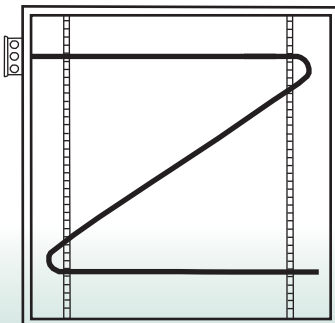
Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

TYPICAL INSTALLATION:

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

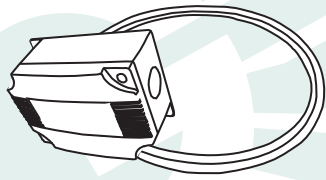
The duct average probes are installed through a hole in the side of the duct to monitor an average temperature within the duct. Select a probe length that allows for criss-crossing the duct multiple times. Install the probes in a straight section of duct at a suitable distance downstream from any heating,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

Each enclosure style provides mounting tabs for ease of installation.

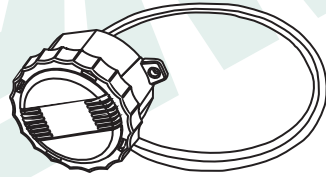
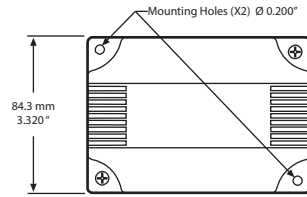
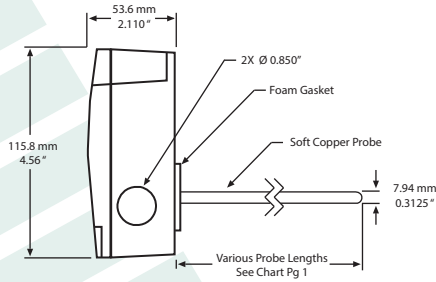


Typical Installation

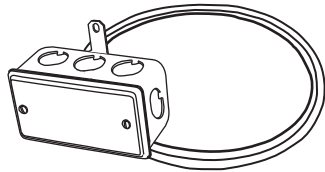
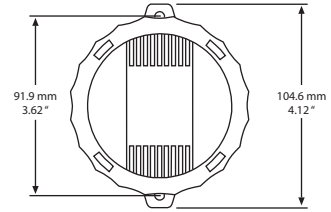
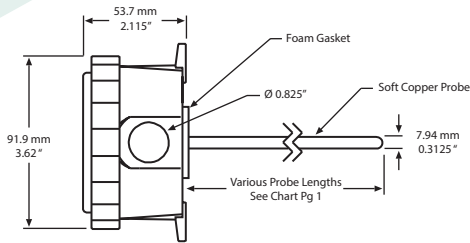
Dimensions:



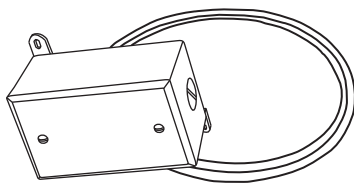
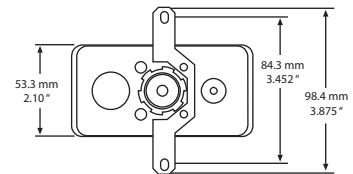
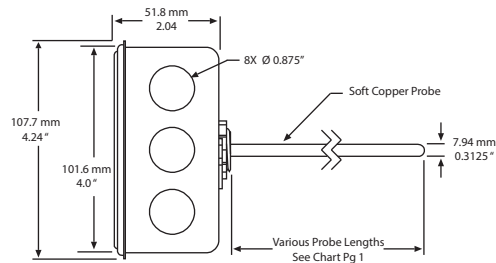
ABS Enclosure



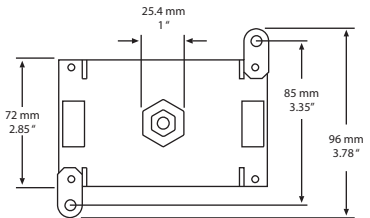
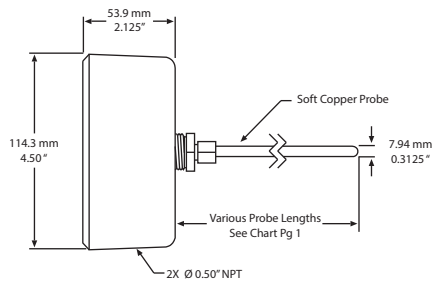
Round ABS Enclosure (E)



Metal Enclosure (M)



Weatherproof Enclosure (W)



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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