



# GREYSTONE

ACCURACY BY DESIGN

## 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:

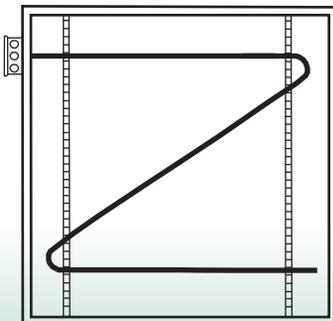
- Sensor Type:.....Thermistor or RTD  
See Ordering Chart
- Temperature Range:.....-20 to 105 °C (-4 to 221 °F)  
Higher Ranges Available  
Contact Greystone
- Wire Material:.....PVC insulated, parallel bonded  
(Type 2, 100 ohm platinum uses FT-4)
- Probe Material:.....Soft copper
- Probe Dimensions:.....0.3125" (7.94 mm) Diameter
- Enclosure:.....Standard - ABS - UL94-V - NEMA 12 (IP64)  
Round (E) - ABS - NEMA 12 (IP64)  
Metal (M) - Gal. Steel - NEMA 1 (IP30)  
Weatherproof (W) - Cast Alum. NEMA 3R (IP64)
- Termination:.....Pigtail 2 or 3 wire  
Terminal block with (E) enclosure

### 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



### 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)
M	Metal utility box
E	Round ABS, w/gasketed cover
W	Aluminum weatherproof box

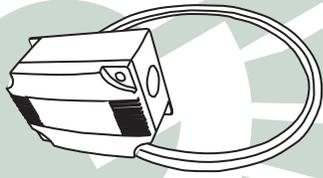
CODE	Sensor
2	PT100-100 Ω Plat. IEC 751, 385 Alpha, thin film
5	1801 Ω, NTC Thermistor, ±0.2 C
6	3000 Ω, NTC Thermistor, ±0.2 C
7	10,000 Ω, type 3, NTC Thermistor, ±0.2 C
8	2.252 KΩ, NTC Thermistor, ±0.2 C
9	100,000 Ω, NTC Thermistor, ±0.2 C
12	PT1000-1000 Ω Platinum, IEC 751, 385 Alpha, thin film
13	1000 Ω Nickel
14	10,000 Ω, type 3, NTC Thermistor, ±0.2 C c/w 11K shunt resistor
15	PT3000 PTC Platinum, ±0.2 C
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)

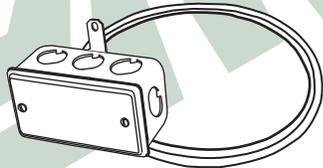
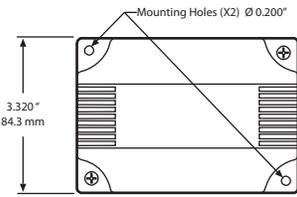
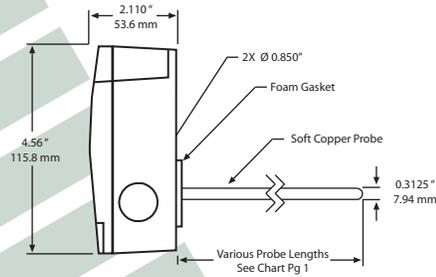
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Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

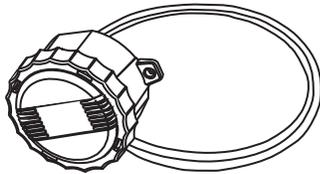
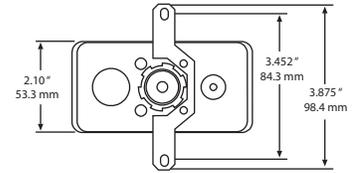
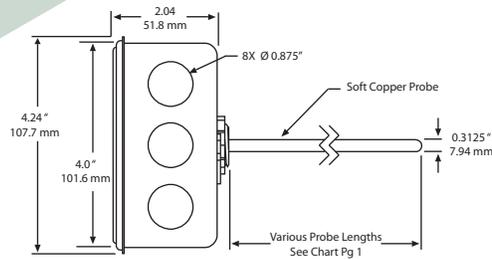
# Dimensions:



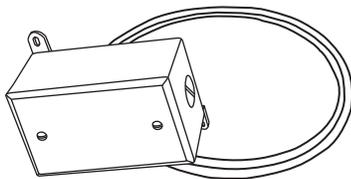
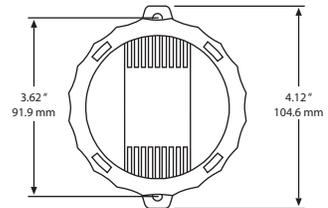
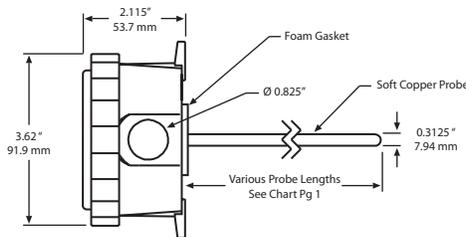
**ABS Enclosure**



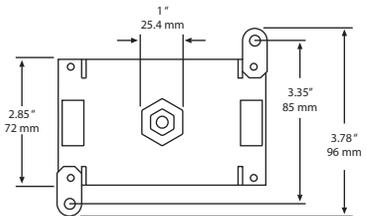
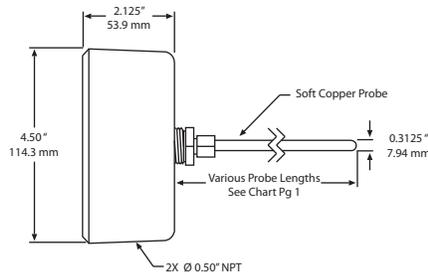
**Metal Enclosure (M)**



**Round ABS Enclosure (E)**



**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 sensors and transducers 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**