



GREYSTONE

ENERGY SYSTEMS INC

HIGH ACCURACY DUCT TEMPERATURE SENSOR HATSBM Series

The HATSBM series single point rigid duct temperature sensor utilizes a high accuracy temperature sensor that is encapsulated in 6.35 mm (0.25") OD, 304 series stainless steel 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 Platinum RTD 1000 Ω , 385 Alpha @ 0°C
NTC Thermistor, 10,000 Ω @ 25°C, Type 2 or 3
NTC Thermistor, 20,000 Ω @ 25°C

Temperature Range... -20 to 105 °C (-4 to 221 °F)

Accuracy **RTD Class A:** $\pm 0.15^{\circ}\text{C}$ @ 0°C
RTD 1/3 DIN: $\pm 0.1^{\circ}\text{C}$ @ 0°C
RTD 1/10 DIN: $\pm 0.03^{\circ}\text{C}$ @ 0°C
NTC Thermistor Type 39: $\pm 0.05^{\circ}\text{C}$, 0-70°C
NTC Thermistor Type 55: $\pm 0.03^{\circ}\text{C}$, 0-70°C
NTC Thermistor Type 40/46: $\pm 0.1^{\circ}\text{C}$, 0-70°C

Wire Material PVC insulated, parallel bonded

Probe Material 304 Series Stainless Steel

Probe Dimensions..... 6.35 mm (0.25") Diameter

Enclosure Round (B) - Grey ABS - UL94-V0 - IP65 (NEMA 4X)
Weatherproof PVC (C) - IP65 (NEMA 4X)

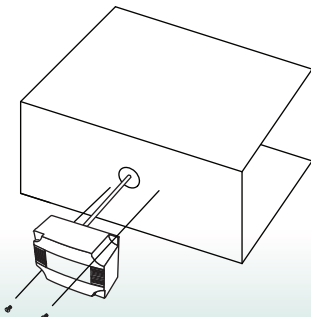
Termination Pigtail 2 or 3 wire

TYPICAL INSTALLATION:

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

The duct type probes are installed in the side of the duct to monitor a single point temperature within the duct. Select a probe length that allows the probe to span the duct width. 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 on the outside of the enclosure for ease of installation.



PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

CODE	Product Description
HATSBM	High Accuracy Duct Temperature Sensor

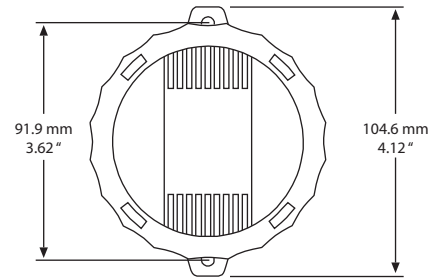
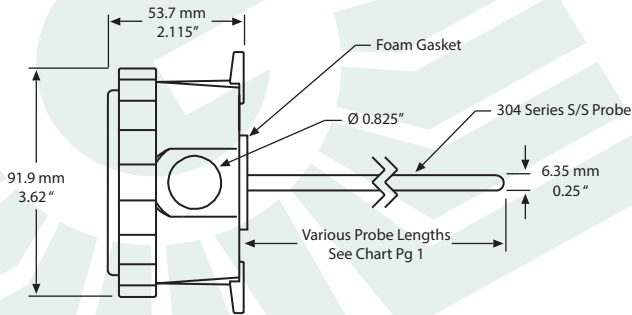
CODE	Enclosure
E	Round ABS, with gasket cover
P	PVC Weatherproof

CODE	Sensor
18	1000 Ω Platinum, 2 Wire, IEC 751, 385 Alpha, thin film, Class A
48	1000 Ω Platinum, 2 Wire, IEC 751, 385 Alpha, thin film, 1/3 DIN
22	1000 Ω Platinum, 2 Wire, IEC 751, 385 Alpha, thin film, 1/10 DIN
41	1000 Ω Platinum, 3 Wire, IEC 751, 385 Alpha, thin film, Class A
49	1000 Ω Platinum, 3 Wire, IEC 751, 385 Alpha, thin film, 1/3 DIN
50	1000 Ω Platinum, 3 Wire, IEC 751, 385 Alpha, thin film, 1/10 DIN
39	10,000 Ω , Type 2, NTC Thermistor, $\pm 0.05^{\circ}\text{C}$
55	10,000 Ω , Type 2, NTC Thermistor, $\pm 0.03^{\circ}\text{C}$
40	10,000 Ω , Type 3, NTC Thermistor, $\pm 0.1^{\circ}\text{C}$
46	20,000 Ω , NTC Thermistor, $\pm 0.1^{\circ}\text{C}$

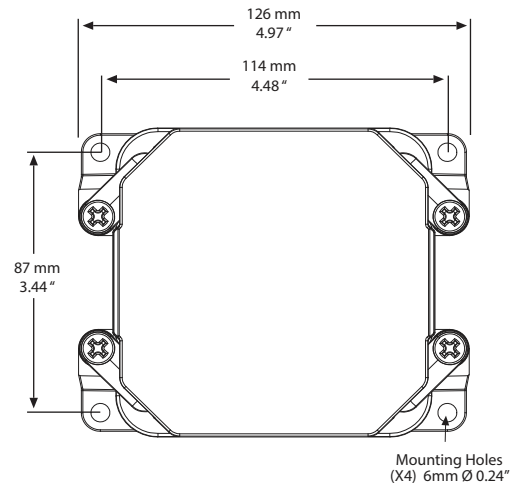
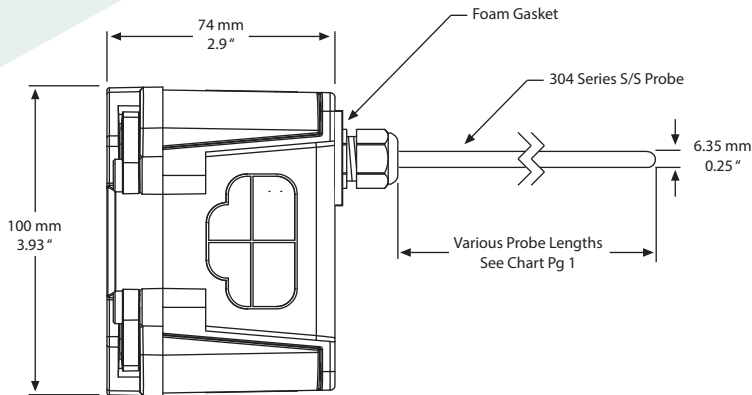
CODE	Probe Length
A	50 mm (2")
B	100 mm (4")
C	150 mm (6")
D	200 mm (8")
E	300 mm (12")
F	450 mm (18")

DIMENSIONS:

Round ABS Enclosure (E)



PVC Enclosure (P)



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