



HIGH ACCURACY DUCT AVERAGE TEMPERATURE SENSOR HATSDC Series

The HATSDC series multi-point average duct temperature sensor utilizes several high accuracy 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 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 60 °C (-4 to 140 °F)
 Higher Ranges Available

Accuracy.....RTD Class A: ±0.15°C @ 0°C
 RTD 1/3 DIN: ±0.1°C @ 0°C
 RTD 1/10 DIN: ±0.03°C @ 0°C
 NTC Thermistor Type 39 : ±0.05°C, 0-70°C
 NTC Thermistor Type 55: ±0.03°C, 0-70°C
 NTC Thermistor Type 40/46 : ±0.1°C, 0-70°C

Wire MaterialFT-6 Plenum-rated

Probe MaterialSoft copper

Probe Dimensions.....7.94 mm (0.3125") Diameter

EnclosureRound (E) - Grey ABS - UL94-V0 - IP65 (NEMA 4X)
 Weatherproof PVC (P) - IP65 (NEMA 4X)

TerminationPigtail 2 or 3 wire



PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

CODE	Product Description
HATSDC	High Accuracy Duct Average 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, ±0.05 C
55	10,000 Ω, Type 2, NTC Thermistor, ±0.0 C
40	10,000 Ω, Type 3, NTC Thermistor, ±0.1 C
46	20,000 Ω, NTC Thermistor, ±0.1 C

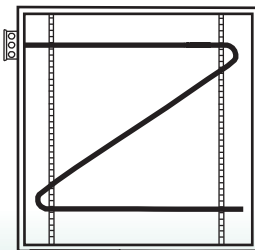
CODE	Probe Length
I	1800 mm (6')
J	3600 mm (12')
K	6100 mm (20')
L	7300 mm (24')

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.

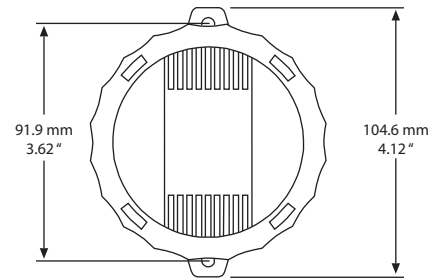
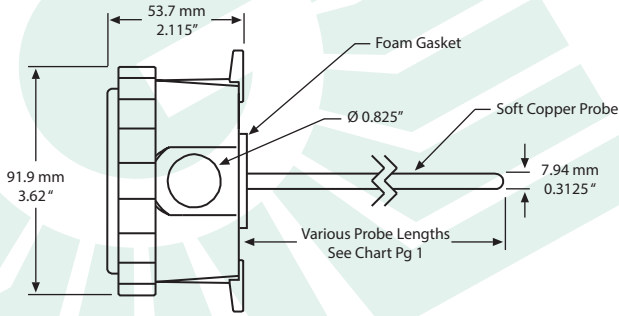
Each enclosure style provides mounting tabs for ease of installation.



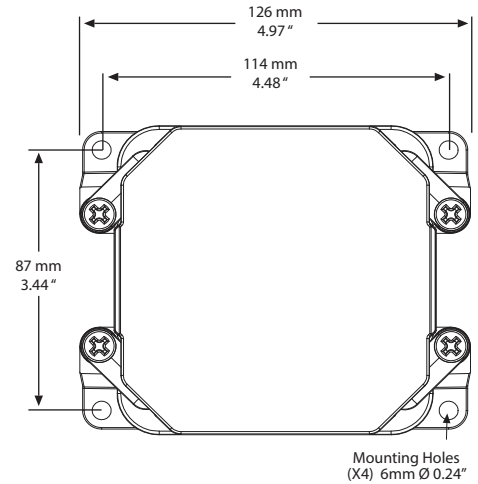
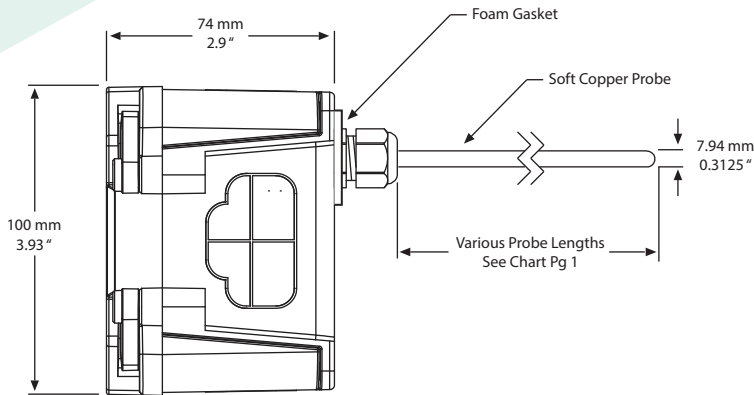
Typical Installation

DIMENSIONS:

Round ABS Enclosure (E)



PVC Enclosure (P)



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