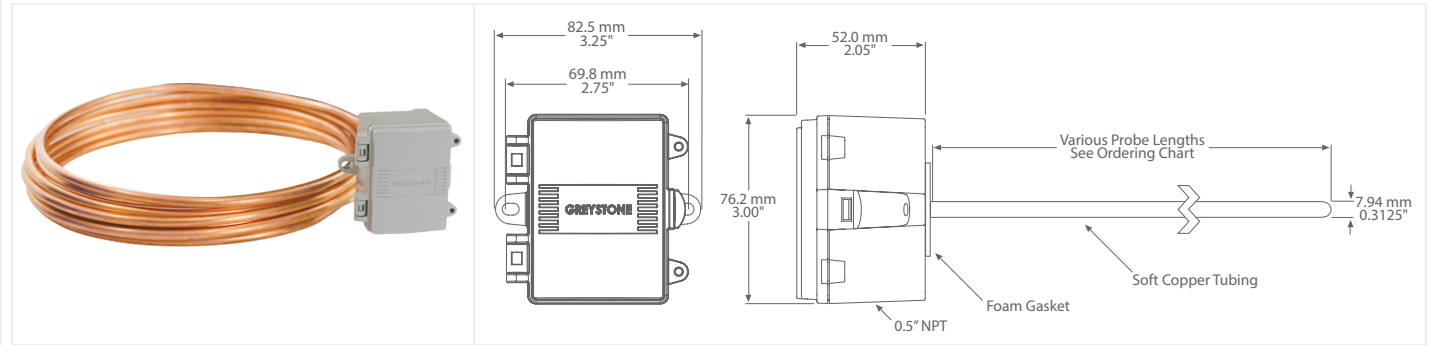




HIGH ACCURACY FLEXIBLE COPPER DUCT AVERAGE TEMPERATURE SENSOR



HATSDC SERIES

PRODUCT DESCRIPTION

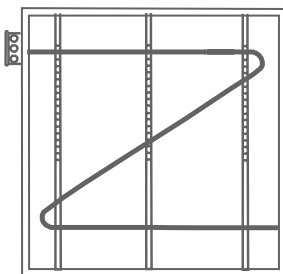
The high accuracy flexible multi-point duct averaging temperature sensor utilizes several precision sensors spaced at equal distances and encapsulated in a 7.94 mm (0.3125") OD, soft copper probe, it is available in various lengths (see ordering chart). All probes provide excellent heat transfer, fast response and resistance to moisture penetration.

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.



SPECIFICATIONS

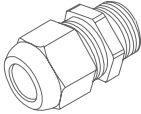
SENSOR TYPE	Various Thermistor or RTD
SENSOR ACCURACY	RTD Class A: $\pm 0.15^{\circ}\text{C}$ ($\pm 0.27^{\circ}\text{F}$) @ 0°C (32°F) RTD 1/3 DIN: $\pm 0.1^{\circ}\text{C}$ ($\pm 0.18^{\circ}\text{F}$) @ 0°C (32°F) RTD 1/10 DIN: $\pm 0.03^{\circ}\text{C}$ ($\pm 0.054^{\circ}\text{F}$) @ 0°C (32°F) NTC Thermistor Type 39: $\pm 0.05^{\circ}\text{C}$ ($\pm 0.09^{\circ}\text{F}$), 0 to 70°C (32 to 158°F) NTC Thermistor Type 55: $\pm 0.03^{\circ}\text{C}$ ($\pm 0.054^{\circ}\text{F}$), 0 to 70°C (32 to 158°F) NTC Thermistor Type 40/46: $\pm 0.1^{\circ}\text{C}$ ($\pm 0.18^{\circ}\text{F}$), 0 to 70°C (32 to 158°F)
PROBE SENSING RANGE	-20 to 60°C (-4 to 140°F)
AMBIENT OPERATING RANGE	-40 to 50°C (-40 to 122°F)
WIRE MATERIAL	FT-6 rated plenum cable, 22 AWG
PROBE MATERIAL	Soft copper
PROBE DIAMETER	7.94 mm (0.315")
STANDARD LENGTHS	1800, 3600, 6100, 7200mm (6', 12', 20', 24')
ENCLOSURE	ABS, UL94-V0, IP65 (NEMA 4X) C: includes terminal block E: same as C, with thread adapter (1/2" NPT to M16), and cable gland fitting
TERMINATION	A: pigtail, 2 or 3 wire C & E: terminal block, 2 or 3 wire
COUNTRY OF ORIGIN	Canada

NOTE: The sensor accuracies listed in the specifications section apply to the sensing element only prior to product assembly and may not be reflected in the complete assembly.

Due to the measurement uncertainty, it is possible, that the true resistance value of the single delivered sensor at 0°C can be out of the defined tolerance class. Profiling each assembly to take into consideration lead wire and the attachment method should be completed.



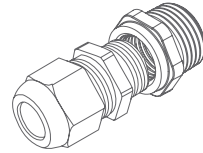
ACCESSORIES - INCLUDED WITH E ENCLOSURE OPTION



CABLE GLAND FITTING



THREAD ADAPTER 1/2" NPT TO M16



ORDERING

PRODUCT	HATSDC	High Accuracy Flexible Copper Duct Average Temperature Sensor
ENCLOSURE	A C E	ABS, with hinged and gasketed cover Same as A, with terminal block Same as C, with thread adapter and cable gland fitting
SENSOR	18 48 22 39 55 40 46	1000 Ω Platinum, IEC 751, 385 Alpha, thin film, Class A 1000 Ω Platinum, IEC 751, 385 Alpha, thin film, 1/3 DIN 1000 Ω Platinum, IEC 751, 385 Alpha, thin film, 1/10 DIN 10,000 Ω Type 2, NTC Thermistor, $\pm 0.05^{\circ}\text{C}$ 10,000 Ω Type 2, NTC Thermistor, $\pm 0.03^{\circ}\text{C}$ 10,000 Ω Type 3, NTC Thermistor, $\pm 0.1^{\circ}\text{C}$ 20,000 Ω NTC Thermistor, $\pm 0.1^{\circ}\text{C}$
PROBE LENGTH	I K J L	1800mm (6') 3600mm (12') 6100mm (20') 7300mm (24')

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

PART NUMBER

HATSDC