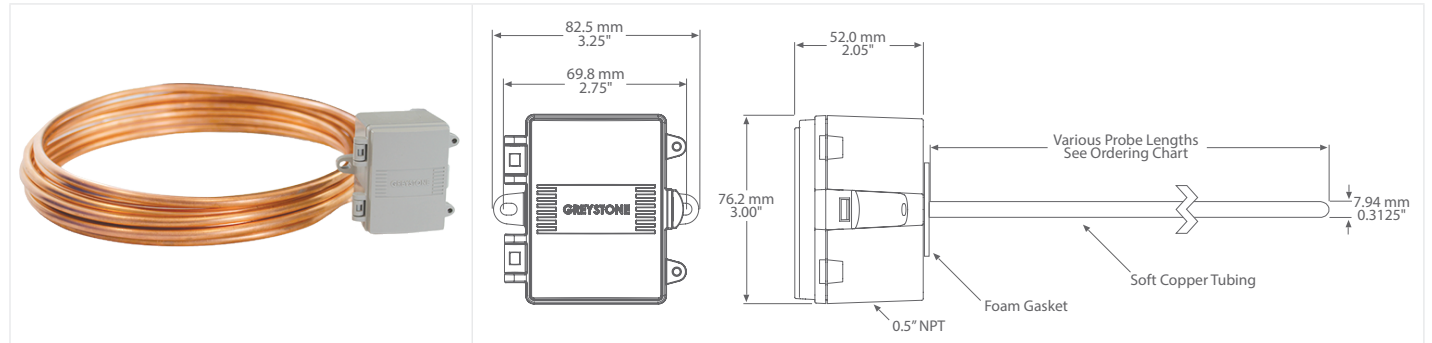




FLEXIBLE COPPER DUCT AVERAGE TEMPERATURE SENSOR



TSDC SERIES

PRODUCT DESCRIPTION

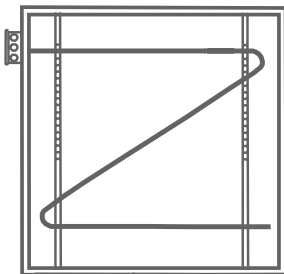
The flexible multi-point duct averaging temperature sensor utilizes several precision sensors spaced at equal distances and encapsulated in a 7.94mm (0.315") OD, soft copper probe, and is available in various lengths. All probes provide excellent heat transfer, fast response and resistance to moisture 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.

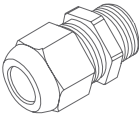
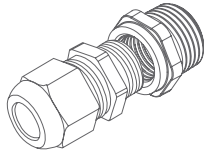
The enclosure provides mounting tabs for ease of installation.



SPECIFICATIONS

SENSOR TYPE	Thermistor or RTD (see ordering chart)
SENSOR ACCURACY	Thermistors: $\pm 0.2^{\circ}\text{C}$ ($\pm 0.36^{\circ}\text{F}$) @ 25°C (77°F) Platinum RTD's: $\pm 0.3^{\circ}\text{C}$ ($\pm 0.54^{\circ}\text{F}$) @ 0°C (32°F) Nickel RTD's: $\pm 0.4^{\circ}\text{C}$ ($\pm 0.72^{\circ}\text{F}$) @ 0°C (32°F)
PROBE SENSING RANGE	-40 to 60°C (-40 to 140°F)
AMBIENT OPERATING RANGE	-40 to 50°C (-40 to 122°F), 5 to 95 %RH non-condensing
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, 7300mm (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

ACCESSORIES - INCLUDED WITH E ENCLOSURE OPTION

		
CABLE GLAND FITTING	THREAD ADAPTER 1/2" NPT TO M16	



ORDERING			PART NUMBER
PRODUCT	TSDC	Flexible Copper Duct Average Temperature Sensor	TSDC
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	02 05 06 07 08 12 13 14 20 24 59	100 Ω Platinum, IEC 751, 385 Alpha, thin film 1801 Ω NTC Thermistor, $\pm 0.2^{\circ}\text{C}$ 3000 Ω NTC Thermistor, $\pm 0.2^{\circ}\text{C}$ 10,000 Ω Type 3, NTC Thermistor, $\pm 0.2^{\circ}\text{C}$ 2.252K Ω NTC Thermistor, $\pm 0.2^{\circ}\text{C}$ 1000 Ω Platinum, IEC 751, 385 Alpha, thin film 1000 Ω Nickel, Class B, DIN 43760 10,000 Ω Type 3, NTC Thermistor, $\pm 0.2^{\circ}\text{C}$ c/w 11K shunt resistor 20,000 Ω NTC Thermistor, $\pm 0.2^{\circ}\text{C}$ 10,000 Ω Type 2, NTC Thermistor, $\pm 0.2^{\circ}\text{C}$ 10,000 Ω , 25°C , $\pm 1\%$, B = 3435 $\pm 1\%$ (25/85)	
PROBE LENGTH	I J K L	1800mm (6') 3600mm (12') 6100mm (20') 7300mm (24')	

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