GREYSTONE ENERGY SYSTEMS INC DUCT AVERAGE TEMPERATURE SENSOR TSDC Series

The 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.

SPECIFICATION:

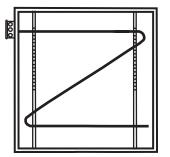
Sensor Type	Various Thermistors or RTD		
	Thermistors: ±0.2°C (±0.36°F) @ 25°C (77°F)		
	Platinum RTD's: ±0.3°C (±0.54°F) @ 0°C (32°F)		
	Nickel RTD's: ±0.4°C (±0.72°F) @ 0°C (32°F)		
Probe Sensing Range	20 to 60°C (-4 to 140°F)		
Ambient Operating Range40 to 50°C (-40 to 122°F)			
Wire Material	FT-6 rated Plenum cable, 22 AWG		
Probe Material	Soft copper		
Probe Diameter	7.94 mm (0.315")		
Standard Lengths	1800, 3600, 6100, 7200 mm (6', 12', 20', 24')		
Enclosure	A: ABS - UL94-V0, IP65 (NEMA4X)		
	C: Same as A, includes terminal block		
	E: Same as C, includes thread adapter		
	(1/2" NPT to M16), cable gland fitting		
Termination	A: Pigtail, 2 or 3 wire		
	C & E: terminal block, 2 or 3 wire		
Country of OriginCanada			

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.



PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

TSDC	Flexible Copper Duct Average Temperature Sensor
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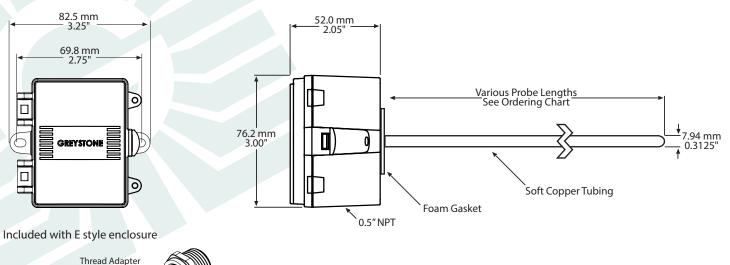
CODE	Enclosure				
A C E	ABS, with hinged & gasketed cover Same as A, with terminal block Same as C, with thread adapter and cable gland fitting				
	CODE	Sensor			
	02 05 06 07 08 12 13 14 20 24 59	100 Ω Platinum, IEC 751, 385 Alpha, thin film, 3 wire 1801 Ω NTC Thermistor, $\pm 0.2^{\circ}$ C 3000 Ω, NTC Thermistor, $\pm 0.2^{\circ}$ C 10,000 Ω, Type 3, NTC Thermistor, $\pm 0.2^{\circ}$ C 2.252K Ω, NTC Thermistor, $\pm 0.2^{\circ}$ C 1000 Ω Platinum, IEC 751, 385 Alpha, thin film 1000 Ω Nickel, Class B, DIN 43760 10,000 Ω, Type 3, NTC Thermistor, $\pm 0.2^{\circ}$ C c/w 11K shunt resistor 20,000 Ω, NTC Thermistor, $\pm 0.2^{\circ}$ C 10,000 Ω, Type 2, NTC Thermistor, $\pm 0.2^{\circ}$ C 10,000 Ω @ 25°C, $\pm 1\%$, B = 3435 $\pm 1\%$ (25/85)			
		CODE	Probe Length		
		I J K	1800 mm (6') 3600 mm (12') 6100 mm (20') 7300 mm (24')		
Ļ	I		7300 mm (24')		

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





DIMENSIONS:



Cable Cland Fitting

Cable Gland Fitting



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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 leadingedge 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