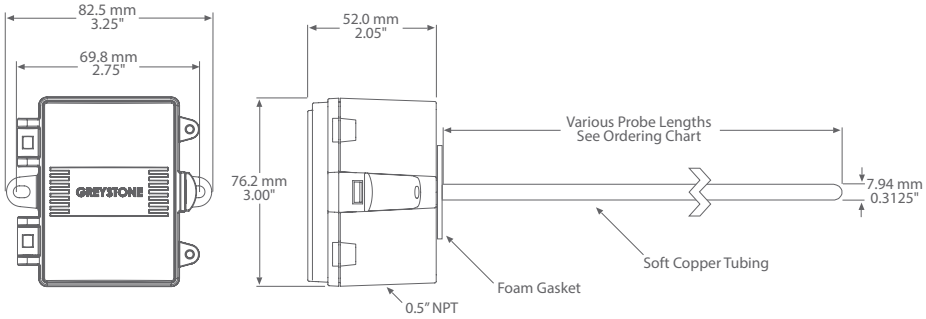
FLEXIBLE COPPER DUCT AVERAGE TEMPERATURE SENSOR





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

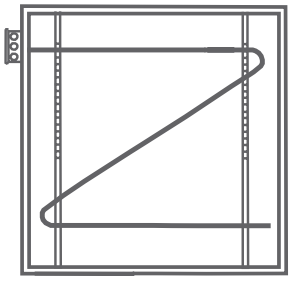
For complete installation and wiring details, please refer to the product installation instructions.

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.

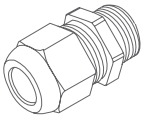
The enclosure provides mounting tabs for ease of installation.

SPECIFICATIONS

SENSOR TYPE	Thermistor or RTD (see ordering chart)
SENSOR ACCURACY	**Thermistors:** ±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 RANGE	-40 to 60°C (-40 to 140°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	1.8m, 3.6m, 6.1m, 7.3m, 15.2m (6', 12', 20', 24', 50')
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
PROTECTION CLASS	III
POWER SOURCE UL	SELV, Limited Energy (<15W)
EU CONFORMITY	CE
CERTIFICATION	UL 60730 & CSA E60730
UL 2043 / CSA / ULC S142 COMPLIANT	Suitable for Use in Air Handling Spaces in Accordance with Section 300.22, (C) of the National Electrical Code
PURPOSE OF CONTROL	Temperature Sensor
TYPE OF ACTION	Type 1
IMPULSE VOLTAGE	330V
POLLUTION DEGREE	2
COUNTRY OF ORIGIN	Canada

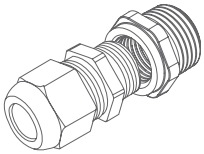


ACCESSORIES - INCLUDED WITH E ENCLOSURE OPTION



CABLE GLAND FITTING





THREAD ADAPTER 1/2" NPT TO M16

GREYSTONE
ENERGY SYSTEMS INC

ORDERING

PRODUCT	**TSDC**	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	**02** **05** **06** **07** **08** **12** **13** **14** **20** **24** **59**	100 Ω Platinum, IEC 751, 385 Alpha, thin film 1801 Ω NTC Thermistor, ±0.2°C 3000 Ω NTC Thermistor, ±0.2°C 10,000 Ω Type 3, NTC Thermistor, ±0.2°C 2.252K Ω NTC Thermistor, ±0.2°C 1000 Ω Platinum, IEC 751, 385 Alpha, thin film 1000 Ω Nickel, Class B, DIN 43760 10,000 Ω Type 3, NTC Thermistor, ±0.2°C c/w 11K shunt resistor 20,000 Ω NTC Thermistor, ±0.2°C 10,000 Ω Type 2, NTC Thermistor, ±0.2°C 10,000 Ω, 25°C, ±1%, B = 3435 ±1% (25/85)
PROBE LENGTH	**I** **J** **K** **L** **Q**	1.8m (6′) 4-sensors 3.6m (12′) 4-sensors 6.1m (20′) 4-sensors 7.3m (24′) 9-sensors 15.2m (50′) 16-sensors

PART NUMBER

TSDC

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

RoHS COMPLIANT

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