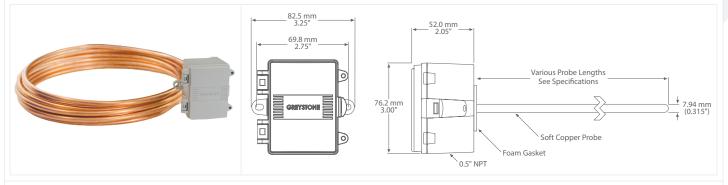


## FLEXIBLE COPPER DUCT AVERAGE TEMPERATURE TRANSMITTER



#### **TXDC SERIES**

#### **PRODUCT DESCRIPTION**

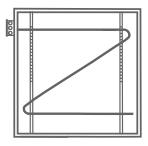
The flexible multi-point duct average temperature transmitter incorporates numerous precision platinum RTD's at equal distances and encapsulated in a 7.94mm (0.3125") OD, soft copper probe and is available in various lengths. All probes provide excellent heat transfer, fast response and resist moisture penetration. A transmitter that provides a high accuracy signal with excellent long term stability, low hysteresis and fast response is available with various ranges.

#### **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 1000 Ω platinum RTD SENSOR ACCURACY ±0.3°C (±0.54°F) @ 0°C (32°F) PROBE SENSING RANGE -20 to 60°C (-4 to 140°F) FT-6 rated plenum cable, 22 AWG WIRE MATERIAL PROBE MATERIAL Soft copper PROBE DIAMETER 7.94 mm (0.315") 1800, 3600, 6100, 7300 mm STANDARD LENGTHS (6', 12', 20' 24') 4-20 mA current loop, 0-5 Vdc, or 0-10 Vdc (factory configured) OUTPUT SIGNAL TRANSMITTER ACCURACY ±0.1% of span, including linearity OUTPUT DRIVE @ 24 VDC Current: 600 mA maximum Voltage: 10 KΩ minimum POWER SUPPLY 0-5 Vdc: 10-35 Vdc or 10-28 Vac 0-10 Vdc: 15-35 Vdc or 15-28 Vac 4-20 mA: 15-35 Vdc (loop-powered) or 22-28 Vac CURRENT CONSUMPTION Current: 20 mA Voltage: 5 mA MAXIMUM CURRENT (VOLTAGE) 5 mA nominal MAXIMUM OUTPUT (VOLTAGE) Limited to <5.5 Vdc or 0-5 Vdc, <10.5 for 0-10 Vdc INPUT VOLTAGE EFFECT Negligible over specified operating range **PROTECTION CIRCUITRY** Reverse voltage protected and output limited AMBIENT OPERATING RANGE -40 to 50°C (-40 to 122°F), 5 to 95 %RH non-condensing

 ENCLOSURE
 A: ABS, UL94-V0, IP65 (NEMA 4X)

 E: Same as A, with thread adapter (1/2" NPT to M16), and cable gland fitting

 TERMINATION
 Screw terminal block (14 to 22 AWG)

 APPROVALS
 CE

 COUNTRY OF ORIGIN
 Canada

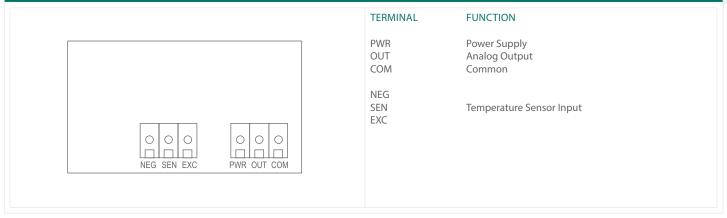
NOTE: This product is factory calibrated and any field adjustment will void the warranty.

### ACCESSORIES - INCLUDED WITH E ENCLOSURE OPTION





# WIRING INFORMATION



ORDERING			PART NUMBER
PRODUCT	TXDC	Flexible Copper Duct Average Temperature Transmitter	TXDC
ENCLOSURE	A E	ABS, with hinged and gasketed cover Same as C, with thread adapter and cable gland fitting	
SENSOR	12	1000 $\Omega$ Platinum, IEC 751, 385 Alpha, thin film	
PROBE LENGTH	I J K L	1800mm (6')     (4 sensors)       3600mm (12')     (4 sensors)       6100mm (20')     (4 sensors)       7300mm (24')     (9 sensors)	
OUTPUT	A D E	4-20 mA 0-5 Vdc 0-10 Vdc	
SCALED RANGE	001 002 003 006 *	0 to 35°C (32 to 95°F) 0 to 50°C (32 to 122°F) 0 to 100°C (32 to 212°F) -50 to 50°C (-58 to 122°F) Additional ranges available	

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



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