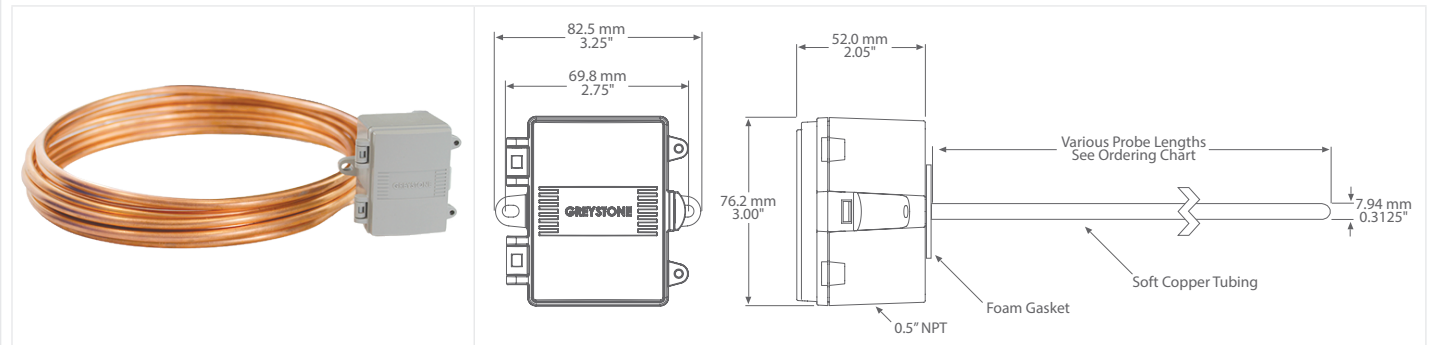




HIGH ACCURACY FLEXIBLE COPPER DUCT AVERAGE TEMPERATURE TRANSMITTER



HATXDC SERIES

PRODUCT DESCRIPTION

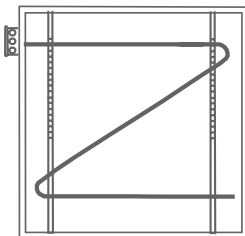
The high accuracy multi point duct average temperature transmitter incorporates numerous precision platinum RTD's at equal distances (DC is continuous) and encapsulated in a 7.94 mm (0.3125") OD, soft copper probe and is available in various lengths (see ordering chart). All probes provide excellent 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.

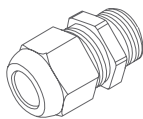
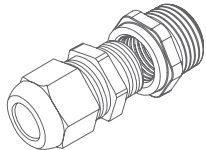


SPECIFICATIONS

SENSOR TYPE	1000Ω Platinum, IEC 751, 385 Alpha, thin film
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)
PROBE SENSING RANGE	-20 to 60°C (-4 to 140°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, 7300mm (6', 12', 20', 24')
OUTPUT SIGNAL	4-20 mA current loop, 0-5 Vdc, or 0-10 Vdc (factory configured)
TRANSMITTER ACCURACY	$\pm 0.1\%$ of span, including linearity
OUTPUT DRIVE @ 24 VDC	Current: 600Ω 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 for 0-5 Vdc, <10.5 Vdc 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	Terminal block (14 to 22 AWG)
APPROVALS	CE
COUNTRY OF ORIGIN	Canada

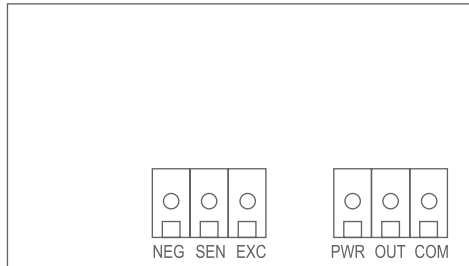
NOTE: This product is factory calibrated and any field adjustment will void the warranty.

OPTIONAL ACCESSORIES - INCLUDED WITH E ENCLOSURE OPTION

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



WIRING INFORMATION



TERMINAL	FUNCTION
PWR	Power Supply
OUT	Analog Output
COM	Common
NEG	Temperature Sensor Input
SEN	
EXC	

ORDERING

PRODUCT	HATXDC	High Accuracy Flexible Copper Duct Average Temperature Transmitter
ENCLOSURE	A E	ABS, with hinged and gasketed cover Same as A, with thread adapter and cable gland fitting
SENSOR	18 48 22	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
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 *	0 to 35°C (32 to 95°F) 0 to 50°C (32 to 122°F) Additional ranges available

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

PART NUMBER

HATXDC