

# **HIGH ACCURACY** FLEXIBLE COPPER DUCT AVERAGE **TEMPERATURE TRANSMITTER HATXDC** Series

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.

## SPECIFICATION:

SPECIFICATION:										
Sensor Type1000 ohm Platinum RTD										
Sensor AccuracyRTD Class A: ±0.15°C @ 0°C										
<b>RTD 1/3 DIN:</b> ±0.1°C @ 0°C										
RTD 1/10 DIN: ±0.03°C @ 0°C										
Probe Sensing Range20 to 60°C (-4 to 140°F)										
Wire MaterialFT-6 rated plenum cable, 22 AWG										
Probe MaterialSoft copper										
Probe Diameter7.94 mm (0.3125")										
Standard Lengths1800, 3600, 6100, 7300 mm										
(6', 12', 20', 24')										
Output Signal4-20 mA current loop, 0-5 Vdc, or										
0-10 Vdc (factory configured)										
Transmitter Accuracy±0.1% of span, including linearity										
4-20 mA loop power supply15-35 Vdc or 22-32 Vac										
Minimum Loop Current2 mA nominal (occurs with shorted sensor)										
Maximum Loop Current22.5 mA nominal (occurs with open sensor)										
Maximum Loop Load>600 ohms										
0-5 Vdc Power Supply10-35 Vdc or 10-32 Vac										
0-10 Vdc Power Supply15-35 Vdc or 15-32 Vac										
Maximum Current (Voltage)5 mA nominal										
Maximum Output (Voltage)Limited to <5.5 Vdc for 0-5 Vdc, <10.5 for 0-10 Vdc										
Input Voltage EffectNegligible over specified operating range										
Protection CircuitryReverse voltage protected and output limited										
Ambient Operating Range0 to 50°C (32 to 122°F), 0 to 95 %RH non-condensing										
EnclosuresABS - UL94-V0, IP65 (NEMA4X)										
E - includes thread adapter (1/2" NPT to M16),										
and cable gland fitting										
Wiring ConnectionsScrew terminal block (14 to 22 AWG)										
Country of OriginCanada										

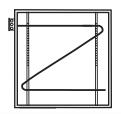
<sup>\*</sup>This product is factory calibrated and any field adjustment will void the warranty.

# 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.





### **PART NUMBER SELECTED**

PRODUCT SELECTION INFORMATION:												
MODEL		Product Description										
НАТ	XDC	Flexible Copper Duct Average Temperature Transmitter										
		COD	E	Enclosure								
		A E		ABS, with hinged & gasketed cover Same as A, with thread adapter & cable gland fitting								
				со	DE	Sens	sor					
				1 4 2	8	1000 $\Omega$ , Platinum, 2 wire, IEC 751, 385 Alpha, thin film Class A 1000 $\Omega$ , Platinum, 2 wire, IEC 751, 385 Alpha, thin film 1/3 DIN 1000 $\Omega$ , Platinum, 2 wire IEC 751, 385 Alpha, thin film, 1/10 DIN						
						СО	DE	Probe Len	gth		No. of Sensors	
						I       1800 mm (6')       (4 Sensors)         J       3600 mm (12')       (4 Sensors)         K       6100 mm (20')       (4 Sensors)         L       7300 mm (24')       (9 Sensors)				(4 Sensors) (4 Sensors)		
								CODE	Output	ıt		
								A C E	4-20mA 0-5 Vdc 0-10 Vdc			
									CODE	Scal	ed Range	
									001 002 003 006 *	0 to 0 to -50 t	35°C (32 to 95°F) 50°C (32 to 122°F) 100°C (32 to 212°F) o 50°C (-58 to 122°F) itional Ranges Available	
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Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.











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.