

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:

SI ECH ICATION.
Sensor Type1000 ohm Platinum RTD
Sensor AccuracyRTD Class A: ±0.15°C @ 0°C
RTD 1/3 DIN: ±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, 7200 mm
(6', 12', 20', 24')
Output Signal4-20 mA current loop, 0-5 Vdc, or
0-10 Vdc (factory configured)
Transmitter Accuracy±0.125% 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

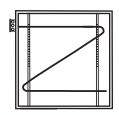
^{*}This product is factory calibrated and any field adjustment will void the warranty.

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:

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МО	DEL	Product D	escription							
HAT	XDC	Flexible Co	opper Duct A	verage	Tempera	ture Trans	mitter			

со	DE	Enclosure					
P E		ABS, with hinged & gasketed cover Same as A, with thread adapter & cable gland fitting					
		CODE	Sensor				

18	1000 Ω, Platinum, 2 wire, IEC 751, 385 Alpha, thin film Class A
48	1000 Ω, Platinum, 2 wire, IEC 751, 385 Alpha, thin film 1/3 DIN
22	1000 Ω, Platinum, 2 wire, IEC 751, 385 Alpha, thin film, 1/10 DIN
41	1000 Ω, Platinum, 3 wire, IEC 751, 385 Alpha, thin film, Class A
49	1000 Ω, Platinum, 3 wire, IEC 751, 385 Alpha, thin film, 1/3 DIN
50	1000 Ω, Platinum, 3 wire, IEC 751, 385 Alpha, thin film, 1/10 DIN

СО	DE	Probe Len	gth	No. of Sensors			
I K L	ζ.	1800 mm (3600 mm (6100 mm (7300 mm (12') 20')	(4 Sensors) (4 Sensors) (4 Sensors) (9 Sensors)			
		CODE	Output				
		A	4-20mA				

4-20mA 0-5 Vdc 0-10 Vdc	
CODE	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
V	

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







GREYSTONE

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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.