



HIGH ACCURACY DUCT AVERAGE TEMPERATURE TRANSMITTER HATXDC Series



The HATXDC multi point duct average temperature transmitter incorporates numerous high accuracy platinum RTD's at equal distances 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. (See ordering chart).

SPECIFICATION:

Sensor.....1000 ohm Platinum RTD
 Accuracy.....**RTD Class A:** $\pm 0.15^{\circ}\text{C}$ @ 0°C
RTD 1/3 DIN: $\pm 0.1^{\circ}\text{C}$ @ 0°C
RTD 1/10 DIN: $\pm 0.03^{\circ}\text{C}$ @ 0°C

Probe Sensing Range..... -20 to 60°C (-4 to 140°F)
 Wire Material.....FT -6 Plenum Rated Cable
 Probe Material.....Soft copper
 Probe Dimension.....7.94 mm (0.3125") Diameter
 Output Signal.....4-20mA current loop, 0-5 Vdc, or
 0-10 Vdc (factory configured)

Transmitter Accuracy..... $\pm 0.125\%$ of span, including linearity
 4-20 mA loop power Supply.....15-35 Vdc or 22-32 Vac
 Minimum Current Loop.....2 mA nominal (occurs with
 shorted sensor)
 Maximum loop Current.....22.5 mA nominal (occurs with
 open sensor)
 Maximum Loop Load.....>600 ohms
 0-5 Vdc Power Supply.....10-35 Vdc or 10-32 Vac
 0-10 Vdc Power Supply.....15-35 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 Effect.....Negligible over specified
 operating range
 RFI rejection.....Good RFI rejection of normal
 frequencies
 Protection Circuitry.....Reverse voltage protected and
 output limited
 Ambient Operating Range..... -40 - 85°C (-40 - 185°F), 0-95% RH
 non-condensing
 Enclosure.....(E)-ABS, UL94-5VB, IP65 (NEMA 4X)
 (P)- PVC, IP65 (NEMA 4X)
 Wiring Connections.....Screw terminal block
 (14 to 22 AWG)

PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
HATXDC	High Accuracy Duct Average Temperature Transmitter

CODE	Enclosure
E	Round ABS, with gasket cover
P	PVC Weatherproof

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

CODE	Probe Length/No. of Sensors for D Style
I	1800 mm (6') 4 Sensors
J	3600 mm (12') 4 Sensors
K	6100 mm (20') 4 Sensors
L	7300 mm (24') 9 sensors

CODE	Output
A	4-20 mA
C	0-5 Vdc
E	0-10 Vdc

CODE	Scaled Range
1	0-35 $^{\circ}\text{C}$ (32-95 $^{\circ}\text{F}$)
2	0-50 $^{\circ}\text{C}$ (32-122 $^{\circ}\text{F}$)
6	-50-50 $^{\circ}\text{C}$ (-58-122 $^{\circ}\text{F}$)
*	Custom ranges available

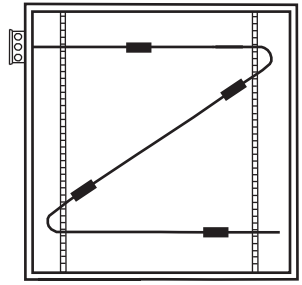
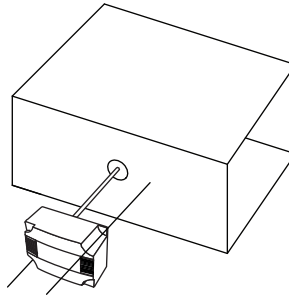
*CUSTOM SCALED TEMPERATURE RANGE

TYPICAL INSTALLATION:

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

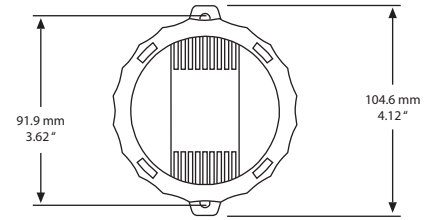
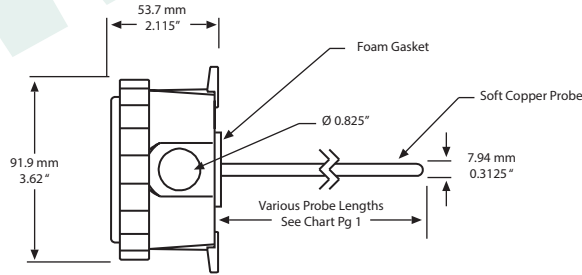
The Flex-duct average sensing cable is installed through a hole in the side of the duct to monitor an average temperature within the duct. Select a probe length that allows for criss-crossing the duct multiple times. Install the probes in a straight section of duct at a suitable distance downstream from any heating, cooling or humidification elements.

Each enclosure style provides mounting tabs on the outside for ease of installation.

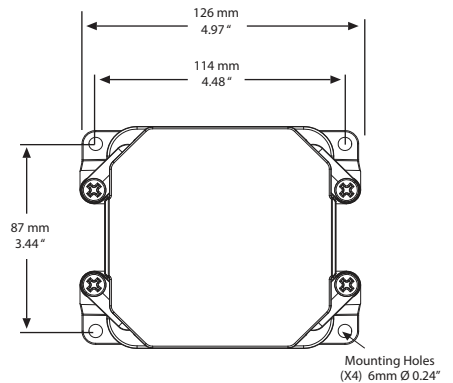
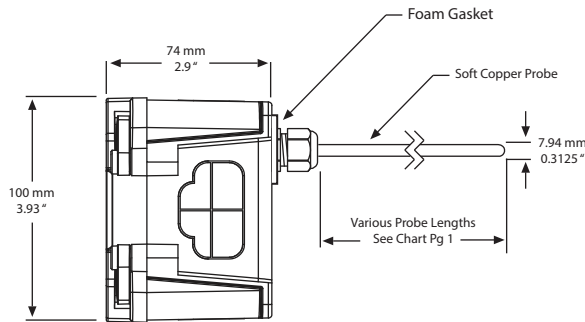


DIMENSIONS:

Round ABS Enclosure (E)



PVC Enclosure (P)



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



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RoHS
COMPLIANT



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 leading-edge 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.

GREYSTONE HAS AN ISO 9001 REGISTERED QUALITY SYSTEM