The high accuracy duct averaging temperature transmitter incorporates numerous precision platinum RTD's 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 for measurement of duct temperatures. A weatherproof Polycarbonate enclosure is included for ease of installation. An LCD is provided in either °C or °F.
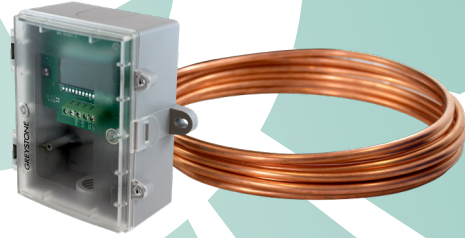
SPECIFICATIONS:

Sensor Type: .... 1000 ohm platinum RTD
Sensor Accuracy: .... **RTD 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
Wire Material: .... PVC insulated, parallel bonded, 22 AWG
Probe Sensing Range: .... -20 to 60°C (-4 to 140°F)
Probe Material: .... Soft copper
Probe Diameter: .... 7.94 mm (0.312")
Wire Material: .... FT-6 plenum rated cable
Standard lengths: .... 1800, 3600, 6100, 7300 mm (6', 12', 20', 24')
Output Signal: .... 4-20 mA current loop, 0-5 vdc, or 0-10 vdc (factory configured)
Transmitter Accuracy: .... ±0.2% of span, including linearity
Power Supply: .... 15 to 30 Vdc, 12 to 28 Vac
Consumption (max): .... 20 mA for current, 11 mA for voltage
Protection Circuitry: .... Reverse voltage protected and output limited
Ouput Drive @ 24 Vdc: .... 700 ohms max for current output, 20K ohms min for voltage output
LCD Display Units: .... °C or °F (factory configured)
Display Range: .... 3 digit for -88.8 to 888 as required
Display Size: .... 38.1mm W x 16.5 mm H (1.5" to 0.65")
Digit Height: .... 11.4 mm (0.45") plus °C/°F symbol
Ambient Operating Range: .. 0 to 50°C (32 to 122°F), 0-95 %RH
Enclosure: .... Grey polycarbonate UL94-V0, IP65 (NEMA 4X) F style includes thread adapter (1/2" NPT to M16) and cable gland fitting
Wiring Connections: .... Screw terminal block (14 to 22 AWG)
Country of Origin: .... Canada

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 elements.

The enclosure provides mounting tabs for ease of installation.
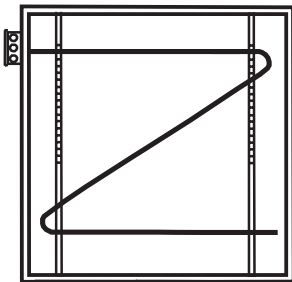
PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
HATDDC	High Accuracy Flexible Copper Duct Average Temperature Transmitter with Display

CODE	Enclosure
B	Polycarbonate, with hinged & gasketed cover
F	Same as B, with thread adapter & cable gland fitting

CODE	Display Units
C	Celsius
F	Fahrenheit

CODE	Sensor
18	1000 Ω, Platinum, wire 2, 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

CODE	Probe Length
I	1800 mm (6')
J	3600 mm (12')
K	6100 mm (20')
L	7300 mm (24')

CODE	Output
A	4-20mA 2 or 3 wire
D	0-5 Vdc 3 wire
E	0-10 Vdc 3 wire

CODE	Scaled Range
001	0 to 35°C (32 to 95°F)
002	0 to 50°C (32 to 122°F)

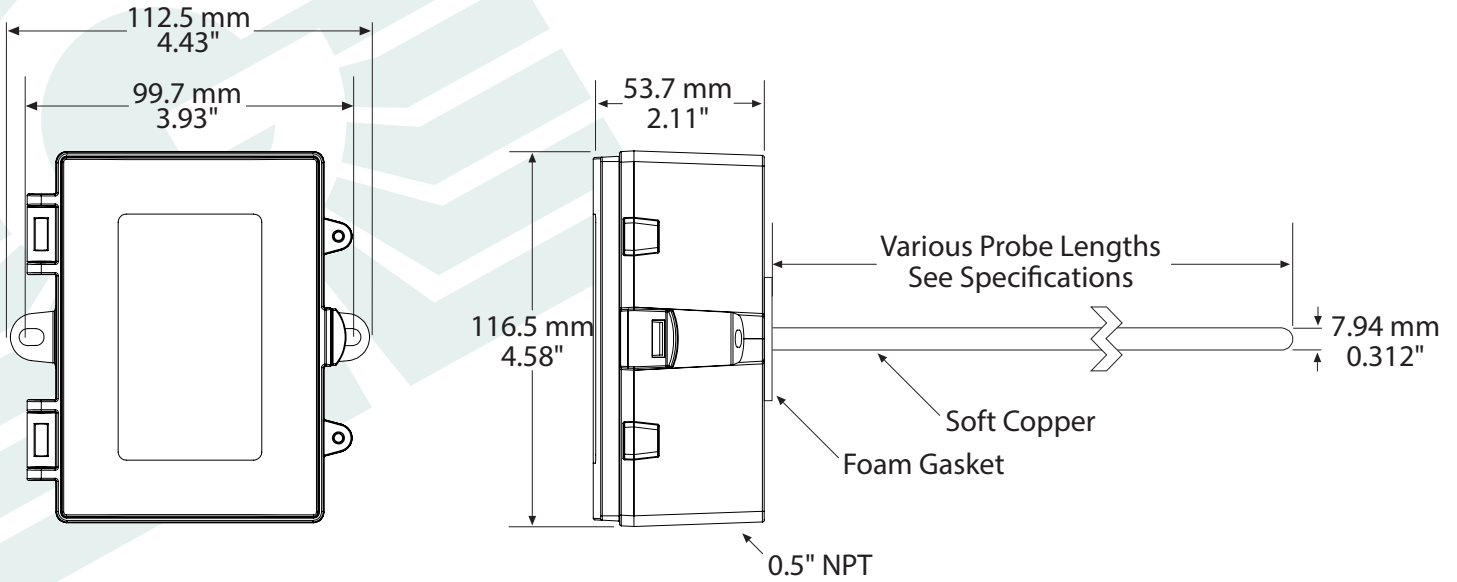Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

Wiring:

Terminal	Function
PWR	Power Supply
COM	Power Supply Common
TEMP (2)	Temperature Sensor Input
NO	Relay Output - Normally Open Contact
COM	Relay Common
NC	Relay Output - Normally Closed Contact

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5 Warranty · MADE IN CANADA · ISO9001 Certified System · CE

DIMENSIONS:

112.5 mm
4.43"

99.7 mm
3.93"

53.7 mm
2.11"

Various Probe Lengths
See Specifications

116.5 mm
4.58"

7.94 mm
0.312"

Soft Copper

Foam Gasket

0.5" NPT

Included with F style enclosure
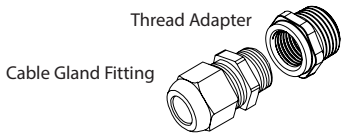
Thread Adapter

Cable Gland Fitting

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 leading-edge 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.

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