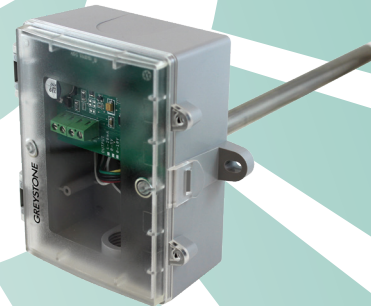


## DUCT TEMPERATURE / HUMIDITY TRANSMITTER HTDT Series

The duct temperature and humidity transmitter series uses a highly accurate and reliable Thermoset Polymer based capacitance humidity sensor and Platinum RTD temperature sensor together with state-of-the-art digital linearization and temperature compensated circuitry to monitor humidity levels. The sensors are encapsulated in a 228.60 mm (9") long by 12.7 mm (0.5") diameter S/S probe. A 60 micron HDPE filter protects the sensor for contaminants. A weatherproof Polycarbonate enclosure is provided for ease of installation.



### SPECIFICATIONS:

Humidity Sensor Type .....	Thermoset Polymer based capacitive
Accuracy .....	±2, 3, or 5% RH, (5% to 95% RH)
Measurement Range .....	0 to 100% RH
Hysteresis .....	±1.5% RH maximum
Repeatability .....	±0.5% RH typical
Linearity .....	±0.5% RH typical
Sensor Response Time .....	15 seconds typical
Stability .....	±1% RH typical at 50% RH in 5 yrs.
Temperature Sensor Type.....	1000Ω Platinum, IEC 751, 385 Alpha, thin film
Sensor Accuracy .....	±0.1% of span
Operating Temperature.....	-40° to 85°C (-40° to 185°F)
Operating Humidity .....	0 to 95% RH non-condensing
Power Supply .....	18 to 35 Vdc, 15 to 26 Vac
Consumption .....	22 mA maximum
Input Voltage Effect .....	Negligible over specified operating range
Protection Circuitry.....	Reverse voltage protected & output limited
Output Signals.....	4-20 mA, 0-5 or 0-10 Vdc
Output Drive at 24 Vdc.....	<b>Current:</b> 550 ohms max <b>Voltage:</b> 10K ohms min
Internal Adjustments .....	Clearly marked ZERO and SPAN pots
Wiring Connections.....	Screw terminal block (14 to 22 AWG)
Enclosures .....	Polycarbonate, UL94-V0, IP65 (NEMA 4X) F style includes thread adapter (1/2" NPT to M16) and cable gland fitting
Probe.....	117 W x 102 H x 53 D mm (4.6" x 4.0" x 2.1") 230 mm (9") probe length x 12.7 mm (1/2") diameter stainless steel with porous filter
Weight .....	220g (7.8 oz) including Probe.
Country of Origin.....	Canada

### TYPICAL INSTALLATION:

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

The duct type probes are installed through a hole in the side of the duct to monitor a single point humidity within the duct. Install the probe in a straight section of duct at a suitable distance downstream from any heating, cooling or humidification devices.

Mounting tabs on the outside of the enclosure for ease of installation.

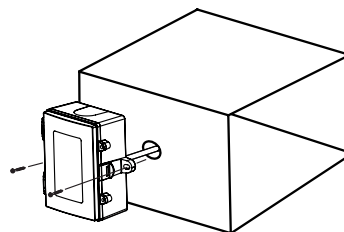
A terminal block connection is provided. for connection to the Building Automation System.

#### PART NUMBER SELECTED

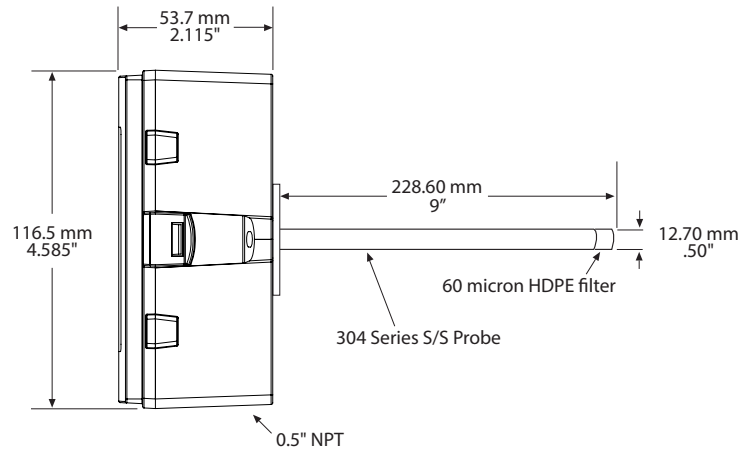
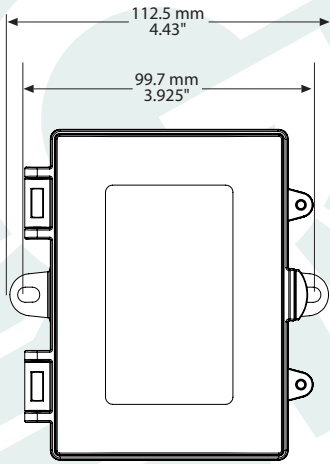
### PRODUCT SELECTION INFORMATION:

MODEL	Product Description
HTDT	Duct - Humidity/Temperature Transmitter Series
<b>CODE    Enclosure</b>	
<b>B</b>	Polycarbonate with hinged and gasketed cover
<b>F</b>	Same as B, with thread adapter & cable gland fitting
<b>CODE    RH Accuracy</b>	
<b>2</b>	2 %
<b>3</b>	3 %
<b>5</b>	5 %
<b>CODE    Temp Sensor</b>	
<b>12</b>	1000 Ω Platinum, IEC 751, 385 Alpha, thin film
<b>CODE    Output Signals (RH and Temp)</b>	
<b>A</b>	4 - 20 mA
<b>D</b>	0 - 5 Vdc
<b>E</b>	0 - 10 Vdc
<b>CODE    Temperature Span</b>	
<b>001</b>	0°C - 35°C (32°F - 95°F)
<b>002</b>	0°C - 50°C (32°F - 122°F)
<b>003</b>	0°C - 100°C (32°F - 212°F)
<b>006</b>	-50°C - 50°C (-58°F - 122°F)

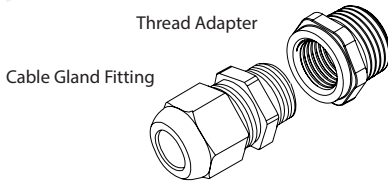
Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.



## DIMENSIONS:



Included with F style enclosure




# 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.*

GREYSTONE HAS AN **ISO 9001** REGISTERED QUALITY SYSTEM