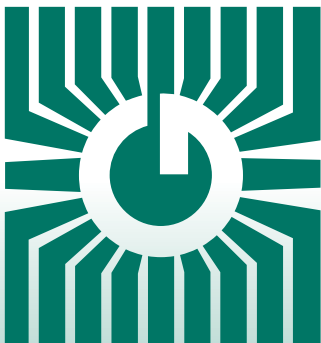


GREYSTONE ENERGY SYSTEMS INC



HIGH ACCURACY TEMPERATURE / HUMIDITY TRANSMITTERS HAHT Series



Precision humidity/temperature control/sensing

FEATURES:

- Highly stable RH sensor element
- Humidity range: 0-100%
- Accuracy available 2%, 3%, & 5%
- Precision Platinum RTD for Temperature
- AC/DC operation
- Polycarbonate weatherproof enclosure

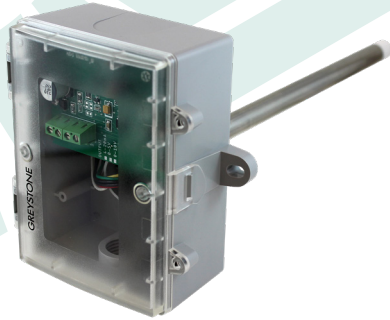
*Peace of mind
through reliable
temperature monitoring*

GREYSTONE HAS AN ISO 9001 REGISTERED QUALITY SYSTEM

HAHT - HIGH ACCURACY TEMPERATURE AND HUMIDITY TRANSMITTER

FEATURES:

The high accuracy series of humidity/temperature transmitters are designed for use in environmental monitoring and control systems where high performance and stability are demanded. It's state-of-the-art design combines digital linearization and temperature compensation with a world class capacitive humidity sensor and platinum RTD for reliability and accuracy in even the most critical applications. Various models cover many aspects of RH and temperature measurement and several optional features are available to meet virtually all HVAC applications.



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 and output limited
Output Signals.....	4-20 mA, 0-5 or 0-10 Vdc
Output Drive at 24 Vdc.....	Current: 550 ohms max, Voltage: 10K ohms min
Internal Adjustments	Clearly marked ZERO and SPAN pots
Wiring Connections.....	Screw terminal block (14 to 22 AWG)
Enclosure	Grey polycarbonate with gasket, UL94-V0, IP65 F style includes thread adapter (1/2" NPT to M16), and cable gland fitting 117 W x 102 H x 53 D mm (4.6" x 4.0" x 2.1")
HTDT Probe.....	230 mm (9") probe length x 12.7 mm (1/2") diameter stainless steel with porous filter
Country of Origin.....	Canada

OPTIONAL TEMPERATURE

Sensor Type	Platinum RTD 1000 Ω, 385 Alpha @ 0°C
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

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
HAHTDT	High Accuracy Duct - Humidity/Temperature Transmitter Series
HAHTOS	High Accuracy Outside Air - Humidity/Temperature Transmitter Series

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

CODE	RH Accuracy
2	2 %
3	3 %
5	5 %

CODE	High Accuracy Temp Sensor
18	1000 Ω Platinum, IEC 751, 385 Alpha, thin film, Class A
48	1000 Ω Platinum, IEC 751, 385 Alpha, thin film, 1/3 DIN
22	1000 Ω Platinum, IEC 751, 385 Alpha, thin film 1/10 DIN

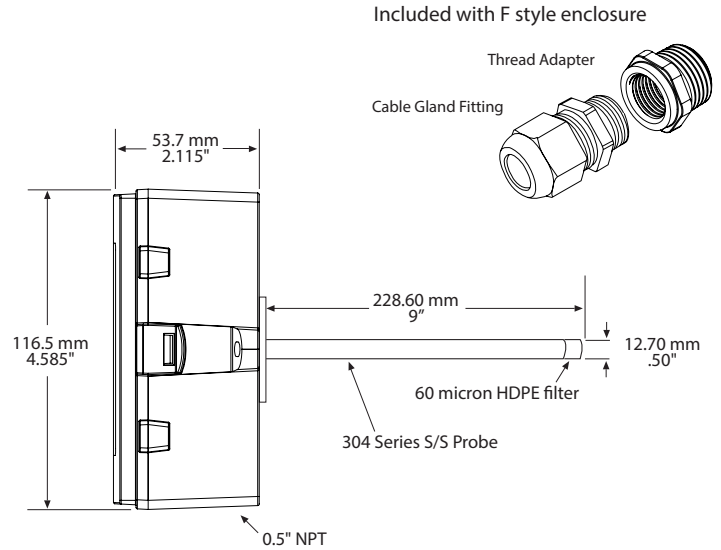
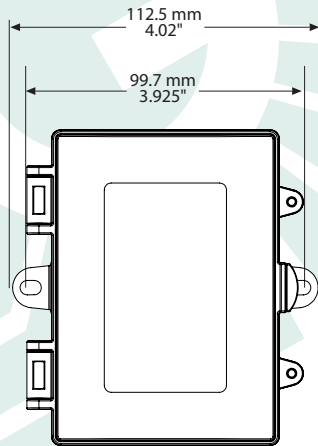
CODE	Output Signals (RH and Temp)
A	4 - 20 mA
D	0 - 5 Vdc
E	0 - 10 Vdc

CODE	Temperature Span
001	0°C - 35°C (32°F - 95°F)
002	0°C - 50°C (32°F - 122°F)
003	0°C - 100°C (32°F - 212°F)
006	-50°C - 50°C (-58°F - 122°F)

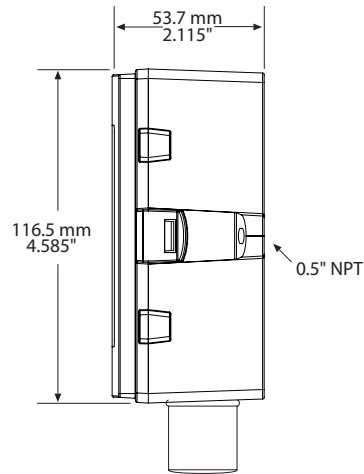
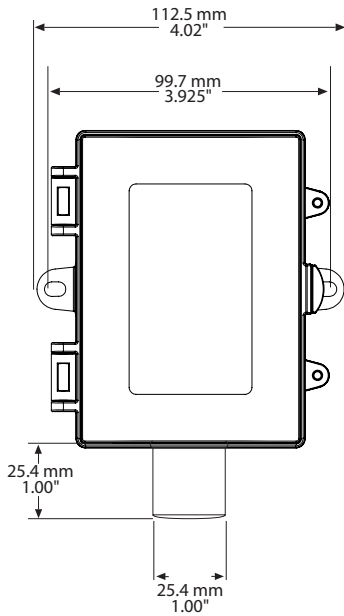
Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

DIMENSIONS:

HTDT



HTOS



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ENERGY SYSTEMS INC

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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 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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