The HTOS 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. A hinged, gasketed weatherproof Polycarbonate enclosure provides easy of installation and protection from the elements.
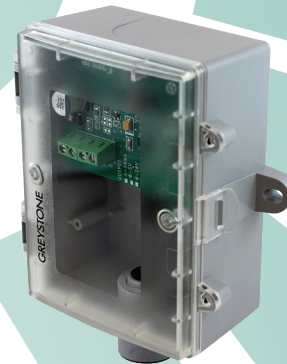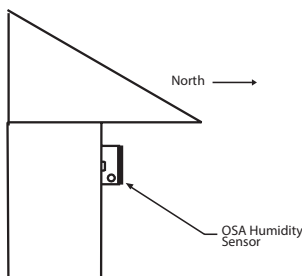
SPECIFICATIONS:

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 .... 550 ohms max for current output,
                                              10K ohms min for voltage output
Internal Adjustments .... Clearly marked ZERO and SPAN pots
Wiring Connections............... Screw terminal block (14 to 22 AWG)
Enclosures .... Grey polycarbonate with gasket,
                                              UL94-V0, IP65
                                              117 W x 102 H x 53 D mm (4.6"x 4.0"x 2.1")
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 HTOS should be mounted on an outside North facing wall, under the eaves which will provide protection from direct sunlight and wind.

The HTOS can be mounted directly to buildings wall face using the four provided mounting holes. There is a 0.85" hole for conduit connection on rear of enclosure.
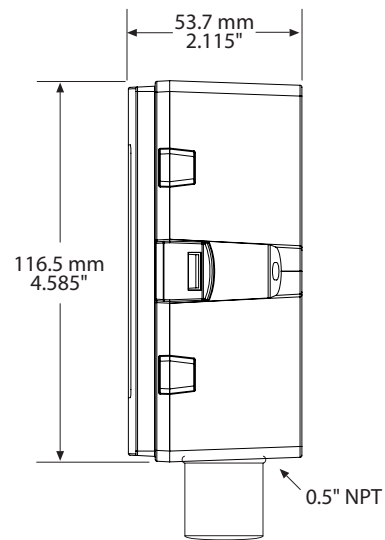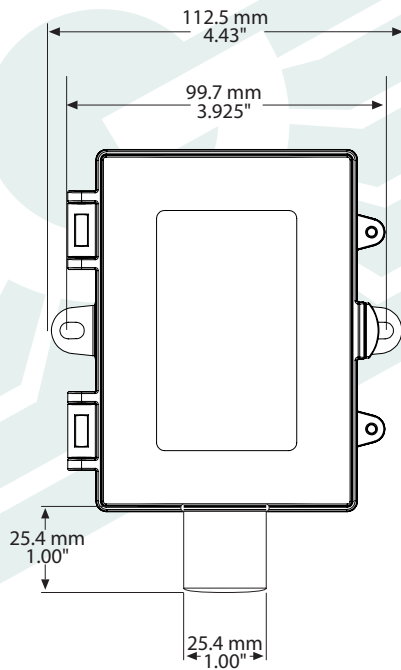
North ⟶

OSA Humidity Sensor

PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
HTOS	Outside Air - Humidity/Temperature Transmitter Series

CODE	Enclosure
B	Polycarbonate with hinged and gasketed cover

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

CODE	Temp Sensor
12	1000 Ω Platinum, IEC 751, 385 Alpha, thin film

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.

RoHS COMPLIANT

ISO9001

CE

DIMENSIONS:

112.5 mm
4.43"

99.7 mm
3.925"

25.4 mm
1.00"

25.4 mm
1.00"

53.7 mm
2.115"

116.5 mm
4.585"

0.5" NPT

GREYSTONE
E N E R G Y   S Y S T E M S   I N C

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RoHS
COMPLIANT

GREYSTONE 5 Warranty

MADE IN CANADA

Certified System ISO9001

CE

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