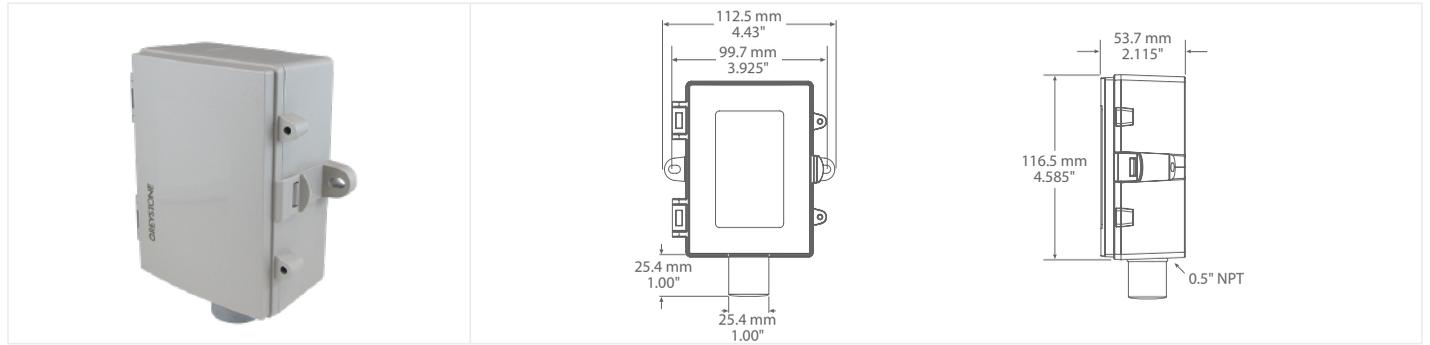




HIGH ACCURACY OUTSIDE HUMIDITY/TEMPERATURE TRANSMITTER



HAHTOS SERIES

PRODUCT DESCRIPTION

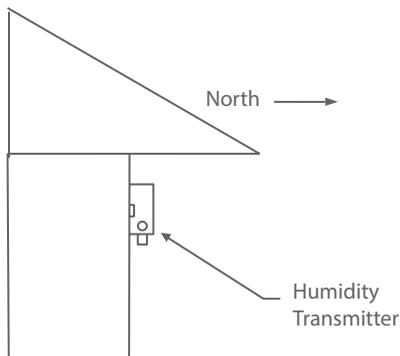
The HAHTOS series uses a highly accurate and reliable Thermoset Polymer based capacitance humidity sensor and Platinum RTD temperature sensor together with state-of-the-art digital linearization and temperature compensated circuitry to monitor humidity levels. A hinged, gasketed weatherproof Polycarbonate enclosure provides easy of installation and protection from the elements.

TYPICAL INSTALLATION

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

The HAHTOS should be mounted on an outside North facing wall, under the eaves which will provide protection from direct sunlight and wind.

The HAHTOS can be mounted directly to the building's wall face using the two provided mounting tabs. There is a 0.85" hole for conduit connection on the rear of the enclosure.

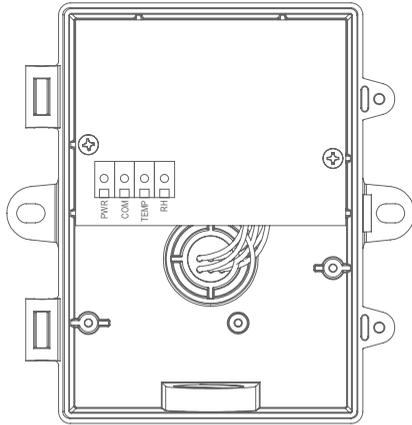


SPECIFICATIONS

HUMIDITY SENSOR TYPE	Thermoset polymer based capacitive
HUMIDITY SENSOR ACCURACY	±1% (20 to 80 %RH) or ±2% (5 to 95 %RH)
SENSOR RESPONSE TIME	15 seconds typical
MEASUREMENT RANGE	0 to 100 %RH
HYSTERESIS	±1.5 %RH maximum
REPEATABILITY	±0.5 %RH typical
LINEARITY	±0.5 %RH typical
STABILITY	±1 %RH typical at 50 %RH in 5 years
TEMPERATURE SENSOR TYPE	1000Ω Platinum, IEC 751, 385 Alpha, thin film RTD Class A: ±0.15°C (±0.27°F) @ 0°C (32°F) RTD 1/3 DIN: ±0.1°C (±0.18°F) @ 0°C (32°F) RTD 1/10 DIN: ±0.03°C (±0.054°F) @ 0°C (32°F)
TEMPERATURE ACCURACY	±0.1% of span
AMBIENT OPERATING RANGE	-40 to 50°C (-40 to 122°F), 0 to 95 %RH non-condensing
POWER SUPPLY	18 to 30 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 SIGNAL	4-20 mA, 0-5 Vdc, or 0-10 Vdc
OUTPUT DRIVE @ 24 VDC	Current: 550Ω max Voltage: 10,000Ω min
INTERNAL ADJUSTMENTS	Clearly marked ZERO and SPAN pots
ENCLOSURE	Grey Polycarbonate, UL94-V0, IP65 (NEMA 4X)
TERMINATION	Screw terminal block (14 to 22 AWG)
COUNTRY OF ORIGIN	Canada



WIRING INFORMATION



TERMINAL	FUNCTION
PWR	24 Vac/dc of controller or power supply
COM	To GND or COMMON of controller
TEMP	Analog Output
RH	Analog Output

ORDERING

PRODUCT	HAHTOS	High Accuracy Outside Humidity/Temperature Transmitter
ENCLOSURE	B	Polycarbonate with hinged and gasketed cover
RH ACCURACY	1 2	1% 2%
TEMPERATURE SENSOR	18 48 22	1000Ω Platinum, IEC 751, 385 Alpha, thin film, Class A 1000Ω Platinum, IEC 751, 385 Alpha, thin film, 1/3 DIN 1000Ω Platinum, IEC 751, 385 Alpha, thin film, 1/10 DIN
OUTPUT SIGNALS (RH AND TEMPERATURE)	A D E	4-20 mA 0-5 Vdc 0-10 Vdc
TEMPERATURE SPAN	001 002 006	0 to 35°C (32 to 95°F) 0 to 50°C (32 to 122°F) -50 to 50°C (-58 to 122°F)

PART NUMBER

HAHTOS

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