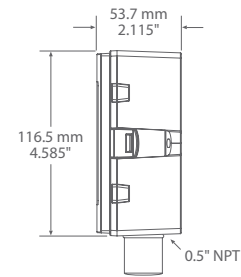
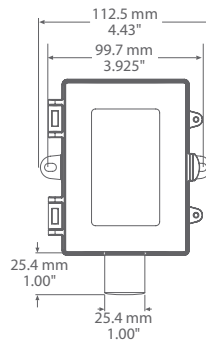


## HIGH ACCURACY OUTSIDE HUMIDITY/TEMPERATURE TRANSMITTER



### HAHTOS SERIES

### PRODUCT DESCRIPTION

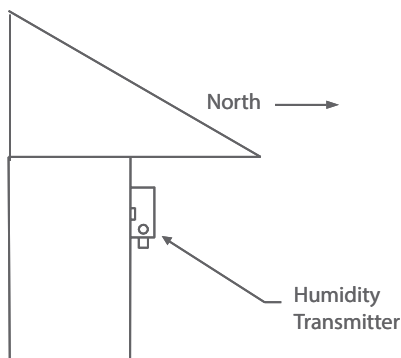
The HAHTOS series uses a highly accurate and reliable Thermoset Polymer based capacitance humidity sensor and Platinum RTD temperature sensor together with state-of-the-art digital linearization and temperature compensated circuitry to monitor humidity levels. A hinged, gasketed weatherproof Polycarbonate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

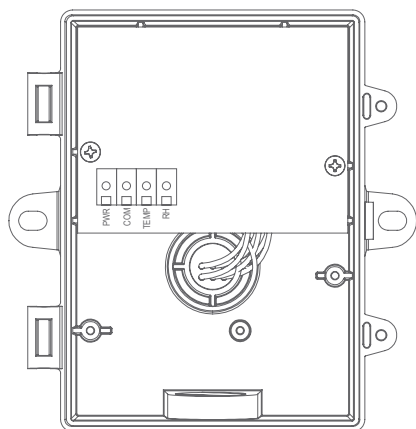
The HAHTOS can be mounted directly to the building's wall face using the two provided mounting tabs. There is a 0.85" hole for conduit connection on the rear of the enclosure.



### SPECIFICATIONS

HUMIDITY SENSOR TYPE	Thermoset Polymer-based Capacitance Sensor Chip
ACCURACY	±1 (20% to 70%) or 2% RH, (5% to 95% RH) @ 25°C
MEASUREMENT RANGE	0 to 100 %RH
HYSTERESIS	±0.8 % RH maximum
REPEATABILITY	±0.5 % RH typical
SENSOR RESPONSE TIME	8 seconds typical
TEMP SENSOR TYPE	1000Ω Platinum, IEC 751, 385 Alpha, thin film <b>RTD Class A:</b> ±0.15°C (±0.27°F) @ 0°C (32°F) <b>RTD 1/3 DIN:</b> ±0.1°C (±0.18°F) @ 0°C (32°F) <b>RTD 1/10 DIN:</b> ±0.03°C (±0.054°F) @ 0°C (32°F)
TEMPERATURE ACCURACY	±0.1% of span
OPERATING TEMPERATURE	-40° to 60°C (-40° to 140°F)
OPERATING HUMIDITY	0 to 95% RH non-condensing
POWER SUPPLY	24Vac/Vdc, ±10%
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 (factory configured)
OUTPUT DRIVE AT 24 VDC	Current: 550 Ω Voltage: 10,000 Ω
INTERNAL ADJUSTMENTS	Temperature: ZERO and SPAN pots Humidity: Offset Pot -10% to +10%
WIRING CONNECTIONS	Screw terminal block (14 to 22 AWG)
ENCLOSURE	Grey polycarbonate with gasket, UL94-V0 IP65 (NEMA 4X). 102 W x 117 H x x 53 D mm (4.0" x 4.6" x 2.1")
PROBE	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

## WIRING INFORMATION



### TERMINAL

PWR  
COM

TEMP  
RH

### FUNCTION

24 Vac/dc of controller or power supply  
To GND or COMMON of controller

Analog Output  
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: The manufacturer reserves the right to make design modifications without prior notice.

RoHS  
COMPLIANT

