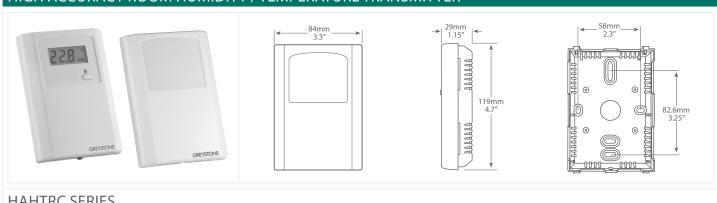


## HIGH ACCURACY ROOM HUMIDITY / TEMPERATURE TRANSMITTER



## **HAHTRC SERIES**

## **PRODUCT DESCRIPTION**

The HAHTRC series uses highly accurate and reliable thermoset polymer based capacitance humidity sensor and curve matched thermistor together with state-of-the-art digital linearization and temperature compensated circuitry in an attractive, low profile enclosure to monitor room humidity & temperature levels. Options include manual override, viewable LCD, and occupied input.

## TYPICAL INSTALLATION

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

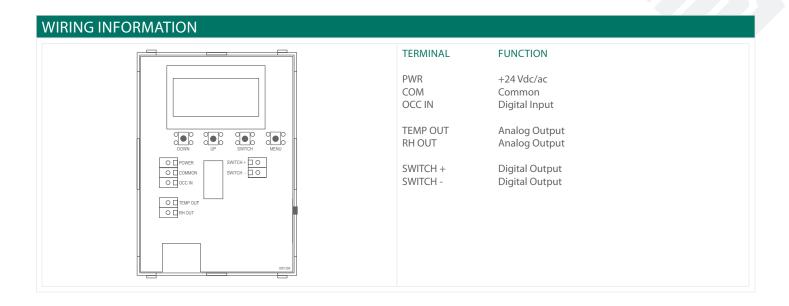
The HAHTRC series can be mounted directly to a single gang electrical box or directly to a wall. Insulating foam is adhered to the back of the enclosure to provide a thermal barrier from wall temperatures.

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

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SPECIFICATIONS			
TEMPERATURE	Sensor: Curve-matched thermistor Accuracy: ±0.1°C (±0.18°F) Range: 0 to 35°C (32 to 95°F) or 0 to 50°C (32 to 122°F), programmable Offset: ±5.0°C (±9.0°F) programmable Display Units: °C or °F programmable Display Resolution: 0.5° < 100°, 1° > 100°		
HUMIDITY	Sensor: Thermoset polymer based capacitive Accuracy: Code 1: ±1.0% (20 to 70%RH) @ 25°C Code 2: ±2.0% (5 to 95%RH) @ 25°C Range: 0 to 100 %RH Hysteresis: ±0.8% @ 25°C Response Time: 15 seconds typical Offset: ±20 %RH, programmable Stability: ±1.2% RH typical @ 50% RH in 5 years		
POWER SUPPLY	24 Vac/dc ±10% (non-isolated half-wave rectified)		
CONSUMPTION	60 mA max @ 24 Vdc		
INPUT VOLTAGE EFFECT	Negligible over specified operating range		
PROTECTION CIRCUITRY	Reverse voltage protected and output limited		
OUTPUT SIGNAL	4-20 mA active (sourcing), 0-5 Vdc or 0-10 Vdc (specify when ordering)		
OUTPUT RESOLUTION	10 bit for all signals		
OUTPUT DRIVE @ 24 VDC	<b>Current:</b> $550 \Omega$ maximum <b>Voltage:</b> $10K\Omega$ minimum		
PROGRAMMING/SELECTION	Via internal push buttons and on-screen menu		
OPERATING CONDITIONS	0 to 50°C (32 to 122°F), 0 to 95 %RH non-condensing		
WIRING CONNECTIONS	Screw terminal block (14 to 22 AWG)		
ENCLOSURE	White ABS - IP30 (NEMA 1) 84mm W x 119mm H x 29mm D (3.3" x 4.7" x 1.15")		
OPTIONAL LCD DISPLAY	Range: 00.0 to 99.9, 3 digit Symbols: °C, °F %RH, OCC Display Size: 38.1mm x 16.5mm (1.5" x 0.65") Digit Height: 11.43mm (0.45") Backlight: Enable/disable via menu		
OPTIONAL OVERRIDE	Type: Front panel, momentary push button, 2 wire dry contact Switch Ratings: N.O., SPST, 50 mA @ 12 Vdc		
OPTIONAL OCCUPIED INPUT (INCLUDED WITH OVERRIDE OPTION)	Type: Digital input, 0-5 Vdc or dry contact to common Logic: Active low or active high, programmable Action: Causes "OCC" segment to light in display		
COUNTRY OF ORIGIN	Canada		





ORDERING		
PRODUCT	HAHTRC	High Accuracy Room Humidity/Temperature Transmitter
RH ACCURACY	1 2	1% 2%
LCD DISPLAY	N L	Concealed Viewable
OUTPUT	I V	4-20 mA 0-5 Vdc or 0-10 Vdc (menu selectable)
OPTIONS	S	Override switch (includes occupied input)

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



**PART NUMBER** 

**HAHTRC**