

**HIGH ACCURACY ROOM HUMIDITY TRANSMITTER HAHRC Series** 

The HAHRC Series room humidty transmitter uses a highly accurate and field-proven RH sensor in an attractive, low profile enclosure to monitor room relative humidity levels. Additional options include an occupancy override button, a communication jack, a fan speed switch, a slide-pot setpoint control, a high accuracy temperature sensor and a status LED or LCD display. The RH output can be field selected as a linear 4-20 mA, 0-5 or 0-10 Vdc signal.

## **SPECIFICATION:**

Sensor	Thermoset polymer based
501501	capactive
Accuracy	
/ ccuracy	±2% (5 to 95% RH)
Range	0 to 100% RH non-condensing
Hysteresis	
Response Time	
	±1.2% RH typical @ 50% RH in
Stability	5 years
Power Supply	24 Vac/dc ±10% (non-isolated
Tower Suppry	half-wave rectified)
Consumption @ 24 Vdc	
Input Voltage Effect	
input voitage Effect	operating range
Output Signal	4-20 mA current loop, 0-5 Vdc
output signammini	or 0-10 Vdc - Jumper selectable
Output Drive @24 Vdc	
output Direc @21 vac	10K ohms min. for voltage
Output Resolution	
Internal Adjustments	
	Reverse voltage protected and
1 Total Circuit y	output limited
Operating Conditions	
operating conditions	0-95% RH non-condensing
Enclosure Size	84mmW x 119mmH x 29mmD
LITEROSUITE SIZE	(3.3" x 4.7" x 1.15")
Wiring Connections	
9 comiccions	(14 to 22 AWG)
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# **OPTIONS:**

OPTIONS:	
LCD DISPLAY	00 0 1 00 00 V DU 0 11 11
Range	
	38.1 x 16.5 mm (1.5" x 0.65")
Digit Height	11.43 mm (0.45")
Symbol	% RH
TEMPERATURE	
Sensor Type	Platinum RTD 1000 Ω, 385 Alpha @ 0°C
,,	NTC Thermistor, 10,000 Ω Type 2/3
	or 20,000 Ω @ 25°C
Accuracy	
riccardcy	RTD 1/3 DIN: ±0.1°C @ 0°C
	RTD 1/10 DIN: ±0.03°C @ 0°C
	<b>Thermistor (39):</b> ±0.05°C, 0-70°C
	Thermistor (40/46): $\pm 0.1^{\circ}$ C, 0-70°C
	<b>Thermistor (55)</b> : $\pm 0.03^{\circ}$ C, 0-70°C
SETPOINT SLIDE POT	
Range	Front panel pot, two wire resistive
	output, 0-10 KΩ
Custom spans available	1K, 2K, 5K, 10K or 20K Ω
OVERRIDE	
Type	Front panel, momentary
71	push-button, 2 wire dry contact
Switch ratings	
LED INPUT	
LLD IN OI	

Signal Type......Digital input, 5 Vdc, 2 wire

Type.....

**FAN SPEED SWITCH** 

Tvpe.....

Range.

#### **NETWORK COMMUNICATIONS** ...4-pin header connector to 4-pin terminal block Side panel mount, 5 postion switch .Off, Auto, Low, Medium, High Resistance: 0, 2, 4, 6, 8 KΩ



#### **PART NUMBER SELECTED**

## **PRODUCT SELECTION INFORMATION:**

МО	DEL	Product I	Product Description		
HAI	HRC	High Accuracy Room Humidity Transmitter			
		CODE	RH Accurac	су	
		1 2	1 % 2 %		
	'	$\overline{}$	_		
	1		CODE	Display	
			N	No LCD	

CODE	Sensor
18	1000 Ω Platinum, 385 Alpha, thin film, Class A
48	1000 Ω Platinum, 385 Alpha, thin film, 1/3 DIN
22	1000 Ω Platinum, 385 Alpha, thin film, 1/10 DIN
39	10,000 Ω, Type 2, NTC Thermistor, ±0.05 C
55	10,000 Ω, Type 2, NTC Thermistor, ±0.03 C
40	10,000 Ω, Type 3, NTC Thermistor, ±0.1 C
46	20,000 Ω, NTC Thermistor, ±0.1 C

CODE	Options (Multiple selections may be made)
P S Y R G E F	Setpoint Adjustment Override switch Yellow LED (n/a with LCD) Red LED (n/a with LCD) Green LED (n/a with LCD) Comm. Jack (4 pin header) Fan speed switch
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.....Yellow, Red or Green

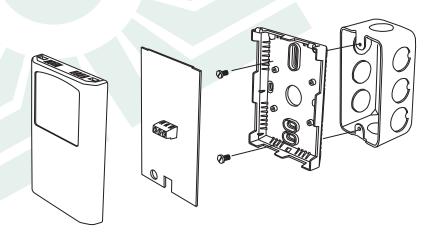
(Custom ranges available)

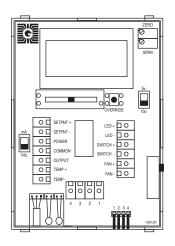
## **TYPICAL INSTALLATION:**

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

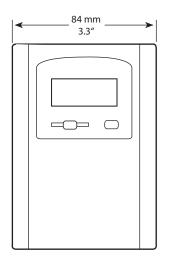
The HAHRC series can be mounted directly to a single gang electrical box or directly to a wall. Multiple mounting holes are provided for connection to a variety of electrical boxes.

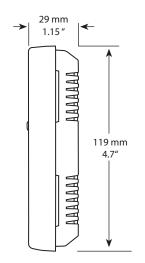
A terminal block connection is provided. connection to the Building Automation System.

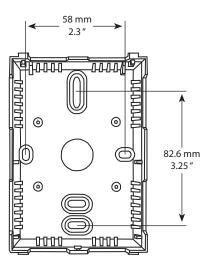




### **DIMENSIONS:**







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



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Greystone Energy Systems Inc. is one of North America's largest ISO registered manufacturers of HVAC sensors and transmitters for Building Automation Management Systems. We have conscientiously established a worldwide reputation as an industry leader by maintaining leadingedge 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.