

ROOM HUMIDITY TRANSMITTER **HRC Series**

The HRC 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 resistive temperature sensor and a status LED or a LCD display. The RH output can be field selected as a linear 4-20 mA, 0-5 or 0-10 Vdc signal.

SPECIFICATION:

SensorThermoset polymer based capactive
Accuracy ±2, 3 or 5% RH from 5 to 95% RH
Range 0 to 100% RH non-condensing
Hysteresis ± 3% RH
Response Time 15 seconds typical
Stability ±1.2% RH typical @ 50% RH in
5 years
Power Supply24 Vac/dc ±10% (non-isolated
half-wave rectified)
Consumption @ 24 Vdc 20 mA
Input Voltage Effect Negligible over specified
operating range
Output Signal4-20 mA current loop, 0-5 Vdc
or 0-10 Vdc - Jumper selectable
Output Drive @24 Vdc 550 ohm max. for current,
10K ohms min. for voltage
Output Resolution
Internal Adjustments ZERO and SPAN pots
Protection CircuitryReverse voltage protected and
output limited
Operating Conditions 0° to 50°C (32°-122°F),
0-95% RH non-condensing Enclosure Size84mmW x 119mmH x 29mmD
(3.3" x 4.7" x 1.15")
Wiring Connections Screw terminal block
(14 to 22 AWG)
(14 to 22 AWG)

OPTIONS:

LCD DISPLAY

Range	.00.0 to 99.9 %RH, 3 digit
Display Size	38.1 x 16.5 mm (1.5" x 0.65")
Digit Height	. 11.43 mm (0.45")
Symbol	
,	

TEMPERATURE

SensorVa	arious Thermistors and RTD's
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SETPOINT SLIDE POT

Kar	nge	Front panei pot, two wire resistive
		output, 0-10 KΩ
_		414 414 414 4414

Custom spans available ... 1K, 2K, 5K, 10K or 20K Ω

OVERRIDE

Type	. Front panel, momentary
	push-button, 2 wire dry contact
Switch ratings	. N.O., SPST, 50 mA @12 Vdc

LED INPUT

Signal Type...... Digital input, 5 Vdc, 2 wire Color......Yellow, Red or Green

NETWORK COMMUNICATIONS

Type	4-pin	head	er	connector	to
	4-pin	term	ina	ıl block	

FAN SPEED SWITCH

Type	. Side panel mount, 5 postion switch
	. Off, Auto, Low, Medium, High
	. Resistance: 0, 2, 4, 6, 8 KΩ
3	(Custom ranges available)





PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
HRC	Room Humidity Transmitter

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

CODE	Display
N L	No LCD LCD

CODE	Optional Temperature Sensor
T2 T5 T6 T7 T8 T12 T13 T14 T20 T24	100 Ω Platinum, IEC 751, 385 Alpha, thin film 1801 Ω , NTC Thermistor, \pm 0.2 C 3000 Ω , NTC Thermistor, \pm 0.2 C 10,000 Ω , type 3, NTC Thermistor, \pm 0.2 C 2.252K Ω , NTC Thermistor, \pm 0.2 C 1000 Ω Platinum, IEC 751, 385 Alpha, thin film 1000 Ω Nickel, Class B, DIN 43760 10K Ω , type 3, NTCTherm, \pm 0.2 Cc/w11K shunt resistor 20,000 Ω , NTC Thermistor, \pm 0.2 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











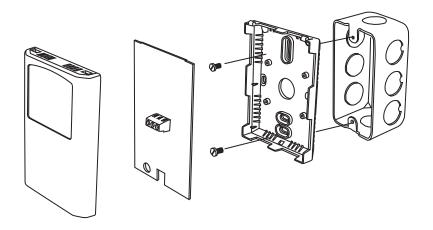
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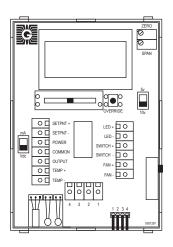
TYPICAL INSTALLATION:

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

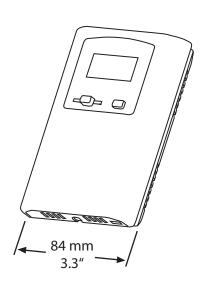
The HRC series can be mounted directly to a single gang electrical box or directly to a wall. Multiple mounting holes are provided for connection to a variety of electrical boxes.

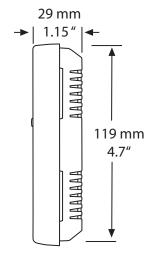
A terminal block connection is provided. connection to the Building Automation System.

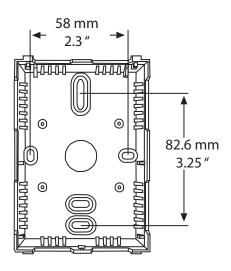




DIMENSIONS:







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.