

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:

Sensor	Thermoset polymer based
	capactive
Accuracy	±2, 3 or 5% RH from 5 to 95% RH
Range	0 to 100% RH non-condensing
Hysteresis	± 3% RH
Résponse Time	
Stability	±1.2% RH typical @ 50% RH in
	5 years
Power Supply	24 Vac/dc ±10% (non-isolated
,	half-wave rectified)
Consumption @ 24 Vdc	20 mA
	Negligible over specified
	operating range
Output Signal	4-20 mA current loop, 0-5 Vdc or
. 3	0-10 Vdc - Jumper selectable
Output Drive @24 Vdc	550 ohm max. for current,
,	10K ohms min, for voltage
Output Resolution	
Internal Adjustments	
	Reverse voltage protected and
	output limited
Operating Conditions	
operating conditions	0-95% RH non-condensing
Enclosure Size	84mmW x 119mmH x 29mmD
Literosare Size	(3.3" x 4.7" x 1.15")
Wiring Connections	
wiring connections	
	(14 to 22 AWG)

OPTIONS:

LCD DISPLAY

Range	00.0 to 99.9 %RH, 3 digit
	38.1 x 16.5 mm (1.5" x 0.65")
Digit Height	
Symbol	
9,	70 111

TEMPERATURE

Sensor.....Various Thermistors and RTD's

SETPOINT SLIDE POT

RangeFront panel pot, two wire resistive output, 0-10 KΩ

Custom spans available1K, 2K, 5K, 10K or 20K Ω

OVERRIDE

TypeFront panel, momentary push-button, 2 wire dry contact Switch ratingsN.O., SPST, 50 mA @12 Vdc **LED INPUT**

Signal TypeDigital input, 5 Vdc, 2 wire ColorYellow, Red or Green

NETWORK COMMUNICATIONS

Type......4-pin header connector to 4-pin terminal block

FAN SPEED SWITCH

1711131 EED 311111	• • •
Type	Side panel mount, 5 postion switch
Range	Off, Auto, Low, Medium, High
	Resistance: 0, 2, 4, 6, 8 KΩ
5.g	(Custom ranges available)



PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

П	MODEL	Product Description	
L	HRC	Room Humidity Transmitter	

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

CODE	Display
N L	No LCD LCD
<u>" </u>	

CODE	Optional Temperature Sensor
T2	100 Ω Platinum, IEC 751, 385 Alpha, thin film
T5	1801 Ω, NTC Thermistor, ±0.2 C
T6	3000 Ω, NTC Thermistor, ±0.2 C
T7	10,000 Ω , type 3, NTC Thermistor, ±0.2 C
T8	2.252K Ω, NTC Thermistor, ±0.2 C
T12	1000 Ω Platinum, IEC 751, 385 Alpha, thin film
T13	1000 Ω Nickel, Class B, DIN 43760
T14	10KΩ, type 3, NTCTherm., ±0.2 Cc/w 11K shunt resistor
T20	20,000 Ω, NTC Thermistor, ±0.2 C
T24	10,000 Ω, type 2, NTC Thermistor, ±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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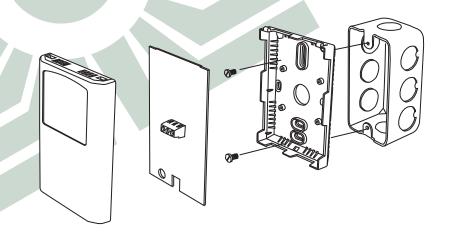


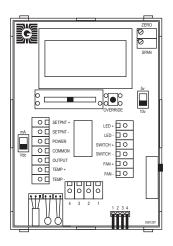
TYPICAL INSTALLATION:

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

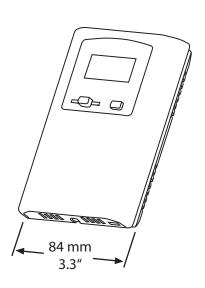
The HRC series can be mounted directly to a single gang electrical box or directly to a wall. Multiple mounting holes are provided for connection to a variety of electrical boxes.

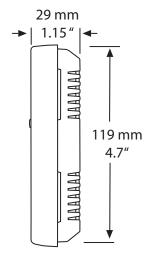
A terminal block connection is provided. connection to the Building Automation System.

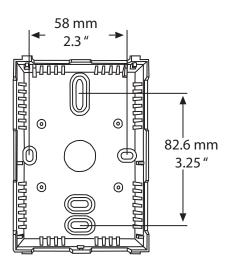




DIMENSIONS:







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.