

PRODUCT DESCRIPTION

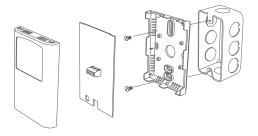
The HRC series room humidity transmitter uses a highly accurate and field-proven RH sensor in an attractive low profile enclosure to monitor room relative humidity levels. Additional options include an occupancy override button, a slide-pot setpoint control, a resistive temperature sensor and an LCD display. The RH output can be field selected as a linear 4-20 mA or 0-5 / 0-10 Vdc signal.

TYPICAL INSTALLATION

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

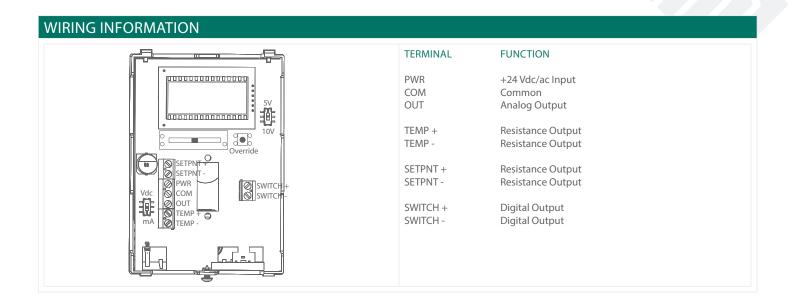
The HRC series can be mounted directly to a single gang electrical box or directly to a wall. Multiple mounting holes are provided for connection to a variety of electrical boxes.

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



SPECIFICATIONS			
SENSOR	Thermoset polymer based capacitive		
ACCURACY	±2, 3 or 5 %RH (5 to 95 %RH)		
RANGE	0 to 100 %RH		
RESOLUTION	0.01 %RH		
HYSTERESIS	±0.8 %RH @ 25°C (77°F)		
RESPONSE TIME	8 seconds typical		
STABILITY	<0.25 %RH/year		
POWER SUPPLY	24 Vac/dc ±10% typical, 28 Vac/dc maximum		
CONSUMPTION	20 mA @ 24 Vdc		
SIGNAL	4-20 mA / 0-5 or - 0-10 Vdc (field selectable)		
OUTPUT DRIVE @ 24 VDC	Current: 550Ω maximum Voltage: $10,000 \Omega$ minimum		
OPERATING CONDITIONS	0 to 50°C (32 to 122°F)		
ENCLOSURE	White ABS, UL94-v0, IP30 (NEMA 1) 84mm W x 119mm H x 29mm D (3.3" x 4.7" x 1.15")		
WIRING CONNECTIONS	Screw terminal block (14 to 22 AWG)		
OPTIONAL TEMPERATURE SENSOR	Various Thermistors and RTDs available as 2 wire resistive output		
SETPOINT ADJUSTMENT	Type: Front panel slidepot, 2 wire resistance output Range: 0K to 10K Ω standard Custom Spans Available: 1K, 2K, 5K, 10K, or 20K Ω		
MANUAL OVERRIDE	Type: Front panel, momentary pushbutton Ratings: 50 mA @ 12 Vdc, N.O., SPST		
LCD DISPLAY	Range: 00.0 to 99.9 %RH, 3 digit Size: 38.1mm W x 16.5mm H (1.5" x 0.65") Digit Height: 11.43mm (0.45") Symbols: %RH		
COUNTRY OF ORIGIN	Canada		





ORDERING			PART NUMBER
PRODUCT	HRC	Room Humidity Transmitter	HRC
RH ACCURACY	2 3 5	2% 3% 5%	
OUTPUTS	N L	No LCD LCD	
OPTIONAL TEMPERATURE SENSOR	T2 T5 T6 T7 T8 T12 T13 T14 T20 T24 T59	Leave blank if no option selected 100Ω Platinum, IEC 751, 385 Alpha, thin film 1801Ω NTC Thermistor, $\pm0.2^{\circ}\text{C}$ 3000Ω NTC Thermistor, $\pm0.2^{\circ}\text{C}$ $10,000\Omega$ Type 3, NTC Thermistor, $\pm0.2^{\circ}\text{C}$ $2.252\text{K}\Omega$ NTC Thermistor, $\pm0.2^{\circ}\text{C}$ 1000Ω Platinum, IEC 751, 385 Alpha, thin film 1000Ω Nickel, Class B, DIN 43760 $10,000\Omega$ Type 3, NTC Thermistor, $\pm0.2^{\circ}\text{C}$ c/w 11K shunt resistor $20,000\Omega$ NTC Thermistor, $\pm0.2^{\circ}\text{C}$ $10,000\Omega$ Type 2, NTC Thermistor, $\pm0.2^{\circ}\text{C}$ $10,000\Omega$ Type 2, NTC Thermistor, $\pm0.2^{\circ}\text{C}$ $10,000\Omega$ 0 0 0 0 0 0 0 0 0 0	
OPTIONS (MULTIPLE SELECTIONS CAN BE MADE)	P S	Leave blank if no option selected 0-10K linear slide pot for set point control (other ranges available, contact Greystone) Front panel push button momentary switch (N.O.)	

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

