

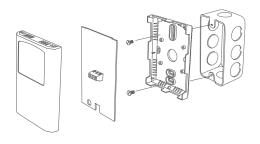
PRODUCT DESCRIPTION

The high accuracy 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 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.

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

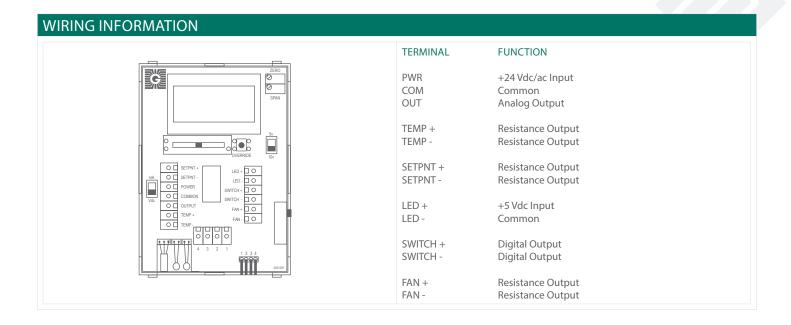
The high accuracy room humidity transmitter can be mounted directly to a single gang electrical box or directly to a wall. Multiple mounting holes are provided for connection to a variety of electrical boxes.

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



SPECIFICATIONS				
SENSOR	Thermoset polymer based capacitive			
ACCURACY	±1% (20 to 80 %RH) ±2% (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 SUPPLY	24 Vac/dc ±10% (non-isolated half-wave rectified)			
CONSUMPTION @ 24 VDC	20 mA			
INPUT VOLTAGE EFFECT	Negligible over specified operating range			
OUTPUT SIGNAL	4-20 mA current loop, 0-5 Vdc or 0-10 Vdc, jumper selectable			
OUTPUT DRIVE @ 24 VDC	Current: 550 Ω maximum Voltage: 10 K Ω minimum			
OUTPUT RESOLUTION	10 bit PWM			
INTERNAL ADJUSTMENTS	ZERO and SPAN pots			
PROTECTION CIRCUITRY	Reverse voltage protected and output limited			
OPERATING CONDITIONS	0 to 50°C (32 to 122°F), 0 to 95 %RH non-condensing			
ENCLOSURE	White ABS - 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			
OPTIONAL 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			
OPTIONAL MANUAL OVERRIDE	Type: Front panel, momentary pushbutton Ratings: 50 mA @ 12 Vdc, N.O., SPST			
OPTIONAL 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			
OPTIONAL STATUS LED INPUT (N/A WHEN LCD SELECTED)	Signal Type: 5V current limited, 2 wire standard LED Colors: Yellow (Y), Red (R), or Green (G) Power Supply: 5 Vdc standard, 10 or 24 Vdc optional			
OPTIONAL COMMUNICATION JACKS	Molex: 4 pin header to 4 pin terminal block, requires HHTA - Hand Held Adapter			
OPTIONAL FAN SPEED SWITCH	Type: Side mounted, 5 position slide switch Designators: Off, Auto, Low, Medium, High Signal: 2 wire, resistance output - 0, 2, 4, 6, 8 K Ω , custom ranges available, contact Greystone			
COUNTRY OF ORIGIN	Canada			





ORDERING			PART NUMBER
PRODUCT	HAHRC	High Accuracy Room Humidity Transmitter	HAHRC
RH ACCURACY	1 2	1% 2%	
OUTPUTS	N L	No LCD LCD	
SENSOR	18 48 22 39 55 40 46	1000 Ω Platinum, IEC 751, 385 Alpha, thin film, Class A 1000 Ω Platinum, IEC 751, 385 Alpha, thin film, 1/3 DIN 1000 Ω Platinum, IEC 751, 385 Alpha, thin film, 1/10 DIN 10,000 Ω Type 2, NTC Thermistor, $\pm 0.05^{\circ}$ C 10,000 Ω Type 2, NTC Thermistor, $\pm 0.03^{\circ}$ C 10,000 Ω Type 3, NTC Thermistor, $\pm 0.1^{\circ}$ C 20,000 Ω NTC Thermistor, $\pm 0.1^{\circ}$ C	
OPTIONS (MULTIPLE SELECTIONS CAN BE MADE)	P S Y R G E	0-10K linear slide pot for set point control (other ranges available, contact Greystone) Front panel push button momentary switch (N.O.) Yellow LED (n/a when LCD is selected) Red LED (n/a when LCD is selected) Green LED (n/a when LCD is selected) External jack for remote system access (4 pin header) Fan speed switch, 5 position, (Off, Auto, Low, Mid, High)	

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

