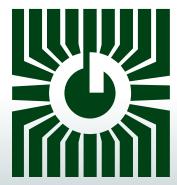
ROOM HUMIDITY TRANSMITTER HRC Series



Precision humidity control/sensing

FEATURES:

- Highly stable RH sensor element
- Humidity range: 0-100%
- Accuracy available 2%, 3%, & 5%
- Choice of precision temperature sensors
- LCD display available
- Optional override, setpoint & fan speed control
- Field selectable outputs
- Custom logo available



Peace of mind through reliable humidity/temperature monitoring

GREYSTONE HAS AN ISO 9001 REGISTERED QUALITY SYSTEM

DESCRIPTION:

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.

SPECIFICATIONS:

Thermoset polymer based capactive Sensor..... ±2, 3 or 5% RH from 5 to 95% RH Accuracy..... Range..... 0 to 100% RH non-condensing Hysteresis.... ± 3% RH 15 seconds typical Response Time..... Stability..... ±1.2% RH typical @ 50% RH in 5 years 24 Vac/dc ±10% (non-isolated half-wave rectified) Power Supply..... Consumption @ 24 Vdc Input Voltage Effect Negligible over specified operating range 4-20 mA current loop, 0-5 Vdc or 0-10 Vdc - Jumper selectable Output Signal..... Output Drive @24 Vdc 550 ohm max. for current, 10K ohms min. for voltage Output Resolution..... 10 bit PWM Internal Adjustments..... ZERO and SPAN pots Protection Circuitry Reverse voltage protected and output limited 0° to 50°C (32°-122°F), 0-95% RH non-condensing Operating Conditions..... Enclosure White ABS - IP30 (NEMA 1) 84mmW x 119mmH x 29mmD (3.3" x 4.7" x 1.15") Wiring Connections Screw terminal block (14 to 22 AWG)

OPTIONS:

Temperature

Sensor..... Various Thermistors and RTD's available as 2 wire resistive output

Setpoint Adjustment

Type Front panel slidepot, 2 wire resistance output Range 0K to $10K\Omega$ standard Custom spans available..... 1K, 2K, 5K, 10K or 20K Ω

Manual Override

Front panel, momentary pushbutton Type 50 mA @12 Vdc, N.O., SPST Ratings

LCD DISPLAY

00.0 to 99.9 %RH, 3 digit Display Range Display Resolution 0.1° C/F Display Size 38.1 mm W x 16.5 mm H (1.5" x 0.65") Digit Height 11.43 mm (0.45") % RH Symbols

Status LED Input (N/A when LCD selected)

Signal Type 5 V current limited, 2-wire standard LED Colors Yellow (Y), Red (R) or Green (G), Power Supply 5 Vdc standard, 10 or 24 Vdc optional

Communication Jacks

4 Pin header to 4 pin terminal block. Requires HHTA - Hand Held Adapter Molex

Fan Speed Switch

Side mounted, 5 position slide switch Type Off, Auto, Low, Medium, High Designators 2 wire, resistance output - 0, 2, 4, 6, 8 K Ω Signal Custom ranges available, contact Greystone

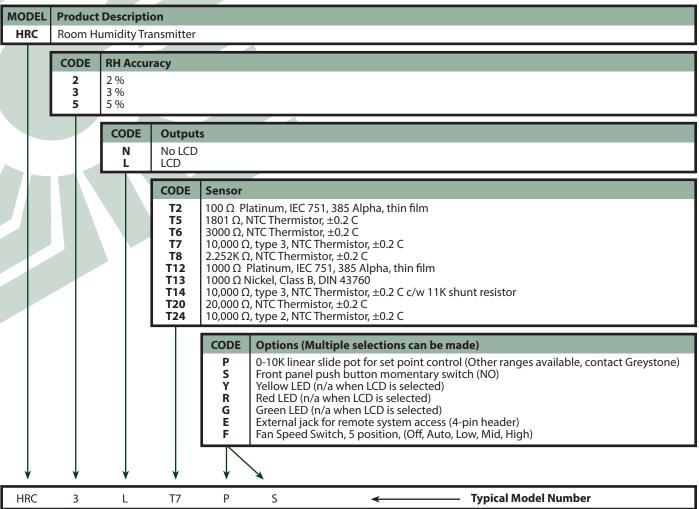








PRODUCT ORDERING INFORMATION:



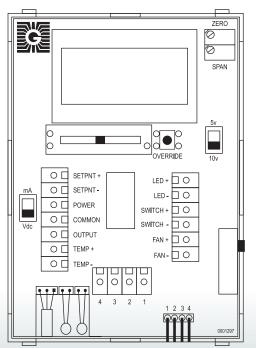
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Terminal

POWER

NOTE: Due to the many possible configurations, special part numbers may be required, please contact Greystone for more information.

PCB/WIRING INFORMATION



Function

From +24 Vac/dc of controller or power supply

COMMON To GND or COMMON of controller

(for 24 Vac power or voltage output signal only)

OUTPUT RH output to analog input of controller 4-20 mA or 0-5/0-10 Vdc

. 20 (0. 0 5/ 0 10 100

SETPNT + Slide-pot output to analog input of controller SETPNT - (resistive output)

TEMP + Temperature sensor output to analog input of

TEMP - controller (resistive output)

LED + Positive input to LED (anode) from digital output LED - Negative input to LED (cathode), 5Vdc standard

SWITCH + Override switch + to digital input of controller SWITCH - Override switch - to COMMON of controller

FAN + Fan speed switch + to analog input of controller

FAN - Fan speed switch - to COMMON of controller

To External Jack PIN 1 To External Jack PIN 2

To External Jack PIN 2
To External Jack PIN 3
To External Jack PIN 4
To External Jack PIN 4

* Some models do not have all these features

**To save on number of connection wires, all GND or COMMON may connected together.

***Illustration shows standard wiring configuration. Custom configurations are available. Please contact Greystone.





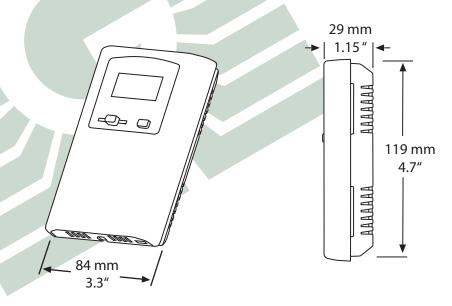


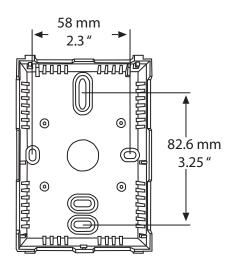




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ACCESSORIES:



HHTA-XXX The HHTA - Handheld Adapter converts the Greystone standard 4 pin connector to the connector of choice such as a RJ12, phone jack. Several styles and configurations are available. Please contact Greystone.



A35R

A multi-purpose screw driver that includes a standard flat screwdriver and a 1/16" allen key, and can be used on all Greystone wall

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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.