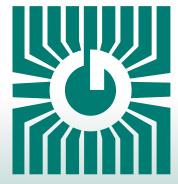
ROOM HUMIDITY TRANSMITTER HRC Series



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
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
	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 0-10 Vdc - Jumper selectable
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
Operating Conditions	0° to 50°C (32°-122°F), 0-95% RH non-condensing
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:

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Setpoint Adjustment

Tvpe	Front panel slidepot, 2 wire resistance output
	0K to 10K Ω standard
	1K, 2K, 5K, 10K or 20K Ω

Manual Override

Type	Front panel	l, momenta	ary pushbutton
Ratings	50 mA @12	Vdc, N.O., 5	SPST

LCD DISPLAY

Display Range	.00.0 to 99.9 %KH, 3 digit
Display Resolution	0.1° C/F
Display Size	38.1 mm W x 16.5 mm H (1.5" x 0.65")
Digit Height	
Symbols	
Jy1110013	70 I W I

Status LED Input (N/A when LCD selected)

Signal Type5	o V current limited, 2-wire standard
LED Colors	Yellow (Y), Red (R) or Green (G),
Power Supply5	5 Vdc standard, 10 or 24 Vdc optional

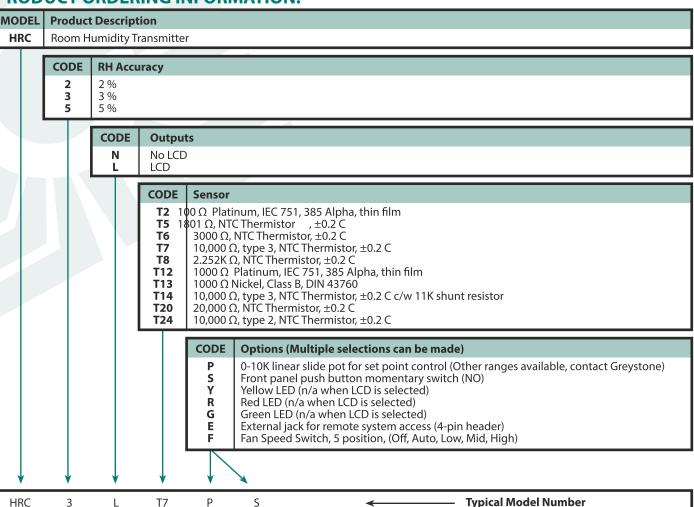
Communication Jacks

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

Type	Side mounted, 5 position slide switch
	Off, Auto, Low, Medium, High
3	Custom ranges available, contact Greystone

PRODUCT ORDERING INFORMATION:

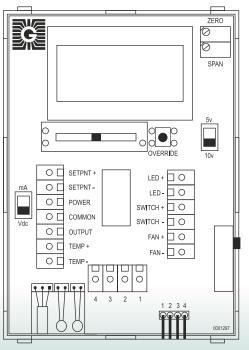


Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

Terminal POWER

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

PCB/WIRING INFORMATION



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)

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

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 3 To External Jack PIN 4

* Some models do not have all these features

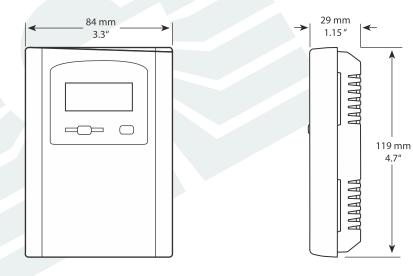
**To save on number of connection wires, all GND or COMMON may

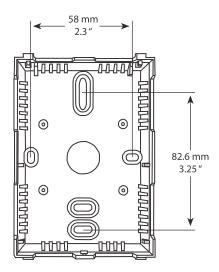
connected together.

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

DIMENSIONS:





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.