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
	. 4-20 mA current loop, 0-5 Vdc or 0-10 Vdc - Jumper selectable
	. 550 ohm max. for current, 10K ohms min. for voltage
Output Resolution	. 10 bit PWM
Internal Adjustments	. ZERO and SPAN pots
	. Reverse voltage protected and output limited
	. 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:

Temperature

Setpoint Adjustment

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

Manual Override

LCD DISPLAY

Status LED Input (N/A when LCD selected)

Communication Jacks

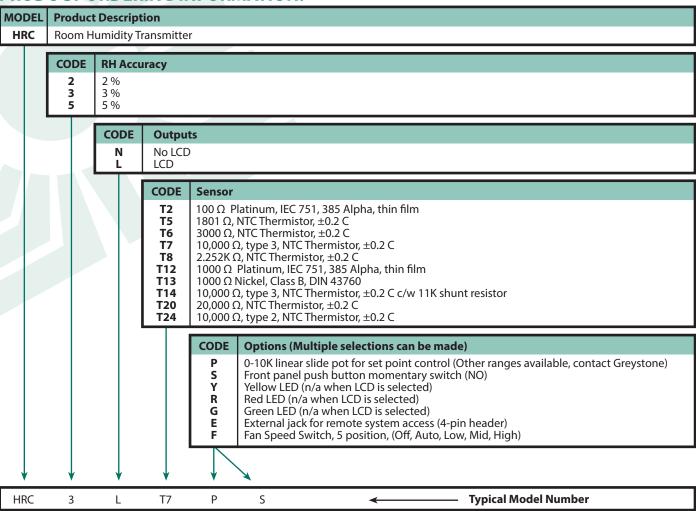
Molex 4 Pin header to 4 pin terminal block. Requires HHTA - Hand Held Adapter

Fan Speed Switch





PRODUCT ORDERING INFORMATION:



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

Terminal

POWER

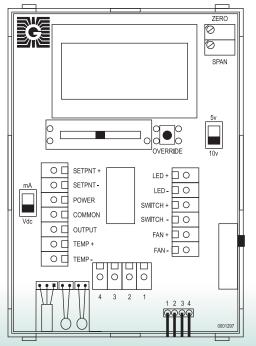
FAN +

FAN -

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

Function

PCB/WIRING INFORMATION



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
SETPNT + SETPNT -	Slide-pot output to analog input of controller (resistive output)
TEMP + TEMP -	Temperature sensor output to analog input of controller (resistive output)
LED + LED -	Positive input to LED (anode) from digital output Negative input to LED (cathode), 5Vdc standard
SWITCH + SWITCH -	Override switch + to digital input of controller Override switch - to COMMON of controller

From +24 Vac/dc of controller or power supply

Fan speed switch + to analog input of controller

Fan speed switch - to COMMON of controller

1 To External Jack PIN 1 2 To External Jack PIN 2 3 To External Jack PIN 3

* 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.

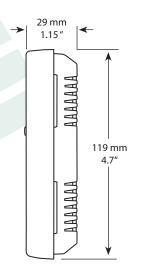
To External Jack PIN 4

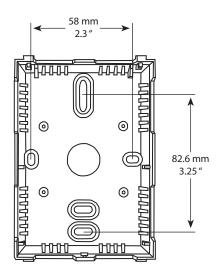












ACCESSORIES:



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.

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Greystone Energy Systems Inc. is one of North America's largest ISO registered manufacturers of HVAC/R 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.