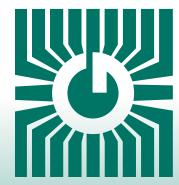
ROOM HUMIDITY/ TEMPERATURE TRANSMITTER HTRC Series



Precision humidity/temperature control/sensing

FEATURES:

- Highly stable RH sensor element
- Humidity range: 0-100%
- Accuracy available 2%, 3%, & 5%
- LCD display available
- Optional override, fan speed switch or comm. jack
- Custom logo available



Peace of mind through reliable humidity/temperature monitoring

GREYSTONE HAS AN ISO 9001 REGISTERED QUALITY SYSTEM

DESCRIPTION:

The HTRC Humidity/Temperature transmitter incorporates two sensors in one attractive wall mount enclosure for the most efficient environmental monitoring and control system. It uses a field-proven RH sensor to monitor relative humidity and a curve-matched thermistor to measure temperature and provides two analog outputs of either 4-20 mÅ, 0-5Vdc or 0-10 Vdc.

Additional options include an occupancy override button, a communication jack, a fan speed switch or a LCD display.

SPECIFICATIONS:

TEMPERATURE

Temperature Sensor......Curve-matched thermistor

Accuracy.....±0.2°C (±0.4°F)

Range........0° to 35°C (32° to 95°F) or 0° to 50°C (32° to 122°F), programmable

Offset± 9°F programmable Display Units°C or °F programmable Display Resolution 0.1° < 100°, 1° > 100°

HUMIDITY

RH Sensor......Thermoset polymer based capactive Accuracy.....±2, 3 or 5% RH from 5 to 95% RH Range...... 0 to 100% RH non-condensing

Temperature Compensation 0° to 50°C (32° to 122°F)

Hysteresis ± 3% RH

Response Time...... 15 seconds typical

Stability ±1.2% RH typical @ 50% RH in 5 years

Offset±20% RH, programmable

GENERAL

Consumption...... 60 mA max @ 24 Vdc

Input Voltage Effect Negligible over specified operating range Protection Circuitry...... Reverse voltage protected and output limited

Output Signal......4-20 mA active (sourcing), 0-5 Vdc or 0-10 Vdc (Specify when ordering)

Output Resolution 10 bit for all signals

Output Drive @24 Vdc550 ohm max. for 4-20 mA, 10K ohms min. for voltage

Programming/SelectionVia intenal push buttons and on-screen menu

Enclosure......White ABS

84mmW x 119mmH x 29mmD (3.3" x 4.7" x 1.15")

OPTIONS:

LCD DISPLAY

Symbols°C, °F, %RH, OCC

Digit Height 11.43 mm (0.45")

Backlight..... Enable/disable via menu

OVERRIDE

Type......Front panel, momentary push-button, 2 wire dry contact

OCCUPIED INPUT (Included with Override option)

Type...... Digital input, 0/5 Vdc or dry contact to common Logic...... Active low or active high programmable

ActionCauses "OCC" segment to light in display

FAN SPEED SWITCH

Type...... Side panel mount, 5 postion switch Range...... Off, Auto, Low, Medium, High

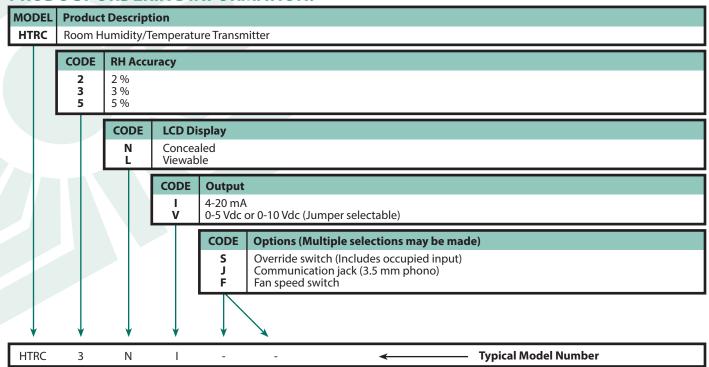
NETWORK COMMUNICATIONS

3.5mm phono jack Ring/Mid/Tip connections to a 3-pin terminal block



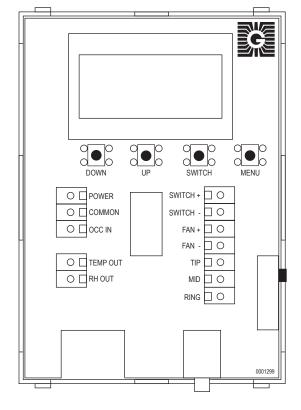


PRODUCT ORDERING INFORMATION:



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

PCB/WIRING INFORMATION

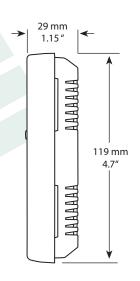


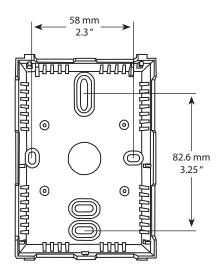
Ierminal	Function	

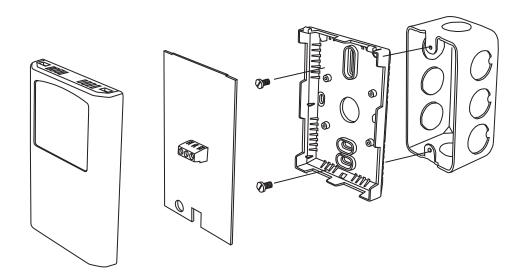
POWER	From +24 Vac/dc of controller or power supply
COMMON	To GND or COMMON of controller
OCC IN	To digital output of controller
TEMP Output	To analog input of controller
	4-20 mA or 0-5 Vdc or 0-10 Vdc
RH Output	To analog input of controller
	4-20 mA or 0-5 Vdc or 0-10 Vdc
SWITCH +	To digital input of controller
SWITCH -	To GND or COMMON of controller
FAN +	To analog input of controller
	Resistance input
FAN -	To GND or COMMON of controller
TIP	External Jack TIP (tip of plug) connection
MID	External Jack MID (middle of plug) connection
RING	External Jack RING (base of plug) connection

- * 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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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.

04/17

PB-HTRC-01-02

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