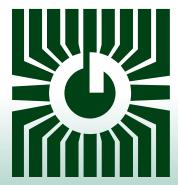
ROOM HUMIDITY/
TEMPERATURE TRANSMITTER
HTRC Series



Precision humidity/temperature control/sensing

FEATURES:

- Dual humidity and temperature outputs
- Current and voltage models
- LCD display available
- Highly stable RH sensor element
- Optional override or fan speed control
- 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 mA, 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:

Thermoset polymer based capactive RH Sensor ±2, 3 or 5% RH from 5 to 95% RH Accuracy Range 0 to 100% RH non-condensing Temperature Compensation. 0° to 50°C (32°-122°F) ± 3% RH Hysteresis Response Time 15 seconds typical ±1.2% RH typical @ 50% RH in 5 years Stability ±20% RH, programmable Offset Curve-matched thermistor Temperature Sensor ±0.2°C (±0.4°F) Accuracy 0° to 35°C (32° to 95°F) or 0° to 50°C (32° to 122°F), programmable Range 24 Vac/dc ±10% (non-isolated half-wave rectified) Power Supply 60 mA max @ 24 Vdc Consumption Negligible over specified operating range Input Voltage Effect Output Signal 4-20 mA active (sourcing), 0-5 Vdc or 0-10 Vdc Output Drive @24 Vdc 550 ohm max. for current, 10K ohms min. for voltage Output Resolution 10 bit PWM Protection Circuitry Reverse voltage protected and output limited 0° to 50°C (32°-122°F), 0-95% RH non-condensing Operating Conditions Programming/Selection Via intenal push buttons and on-screen menu Wiring Connections Screw terminal block (14 to 22 AWG) Enclosure Size 84mmW x 119mmH x 29mmD (3.3" x 4.7" x 1.15")

OPTIONS: LCD DISPLAY

00.0 to 99.9, 3 digit Range °C, °F, %RH, OCC Symbols 38.1 x 16.5 mm (1.5" x 0.65") Display Size Digit Height 11.43 mm (0.45") Backlight Enable/disable via menu

OVERRIDE

Type Front panel, momentary push-button, 2 wire dry contact N.O., SPST, 50 mA @12 Vdc Switch ratings

OCCUPIED INPUT

Digital input, 0/5 Vdc or dry contact to common Signal Type Active low or active high, programmable Logic Causes "OCC" segment to light on LCD Action

FAN SPEED SWITCH

Type Side panel mount, 5 postion switch Off, Auto, Low, Medium, High Range Resistance: 0, 2, 4, 6, 8 K Ω (Custom ranges available) Signal

NETWORK COMMUNICATIONS

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



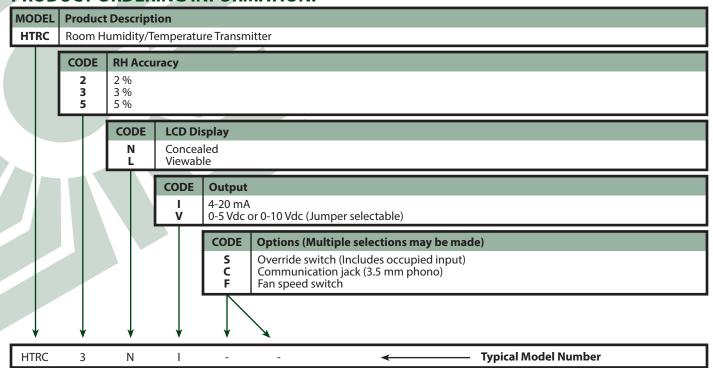






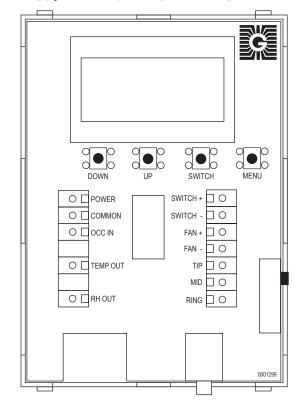


PRODUCT ORDERING INFORMATION:



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

PCB/WIRING INFORMATION



Terminal	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

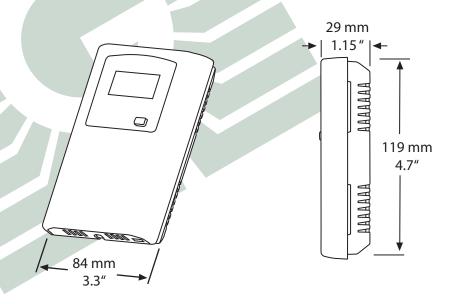
^{*} Some models do not have all these features

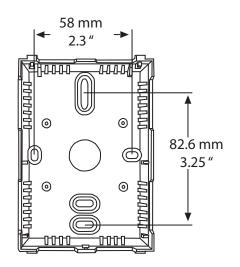


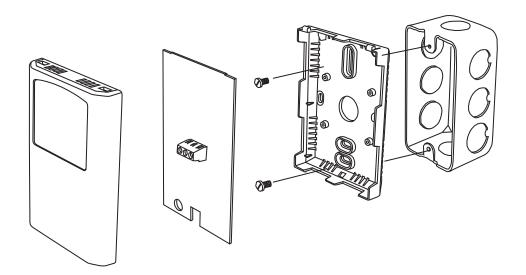


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DIMENSIONS:







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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 sensors and transducers 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.