

SPACE HUMIDITY/
TEMPERATURE
TRANSMITTER
HTRC Series

The HTRC series uses a highly accurate and reliable thermoset polymer based capacitance humidity sensor and curve matched thermistor together with state-of-the-art digital linearization and temperature compensated circuitry in an attractive, low profile enclosure to monitor room humidity & temperature levels. Options include manual override, communication jack & fan speed switch

SPECIFICATIONS:

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Power Supply24Vac/dc ±10% (non-
isolated half-wave rectified)
Consumption 60 mA max @ 24 Vdc
Input Voltage Effect Negligible over specified
operating range
Protection Circuitry Reverse voltage and MOV
protected and output limited
Output Signals 4-20 mA active (sourcing) or
0-5 Vdc or 0-10 Vdc
(specify when ordering)
Output Resolution 10 bit for all signals
Output Drive Capability 550 ohm max for current
10Kohm min for voltage
Programming and Selection Via push buttons and
on-screen menu
Operating Conditions 0°-50°C (32°-122°F) 0-95%RH
non-condensing
Wiring Connections Screw terminal block
(14 to 22 AWG)
Enclosure Size 84mmW x 117mmH x 29mmD
(3.3" x 4.6" x 1.15")
LCD DICDLAY

LCD DISPLAY

Display Size	. 38.1 x 16.5 mm (1.5" x 0.65")
Digit Height	. 11.43 mm (0.45")
Symbols	°C, °F, %RH, OCC
Backlight	Enable or disable via menu

TEMPERATURE

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	. 0.5° <100°, 1° >100°

RH

Sensor	Thermoset polymer based capactive
Accuracy	±2, 3, or 5% RH
Range	0-100% RH
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

OVERRIDE

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

OCCUPIED INPUT

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

PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

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MOI	DEL	Product Description				
НТ	RC	Room Humidity/Temperature Transmitter				
		CODE	Accuracy			
		2 3 5	2% 3% 5%			
			CODE LCD Display			
			N L			
				CODE	Output	
				I V	4-20 mA o 0-5 Vdc or	utput 0-10 Vdc output - Jumper selectable
					CODE	Options
					S J F	Override switch (Includes OCC input) Communication Jack (3.5 mm phono) Fan speed switch
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Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

FAN SPEED SWITCH

Range	Off, Auto, Low, Medium, High
Signal	Resistance: 0, 2, 4, 6, 8 KΩ
-	(Custom ranges available)

NETWORK COMMUNICATIONS

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









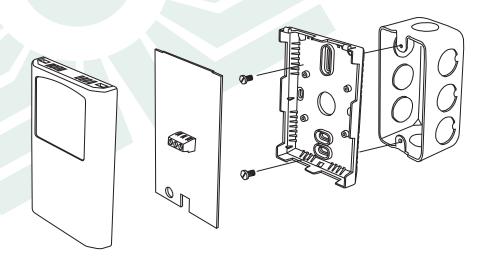
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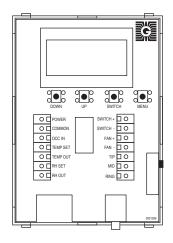
TYPICAL INSTALLATION:

For complete installation and wiring details, please refer to the product installation instructions.

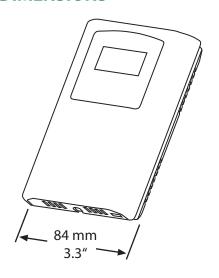
The HTRC series can be mounted directly to a single gang electrical box or directly to a wall. Insulating foam is adhered to the back of the enclosure to provide a thermal barrier from wall temperatures.

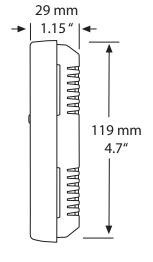
A terminal block connection is provided for connection to the Building Automation System.

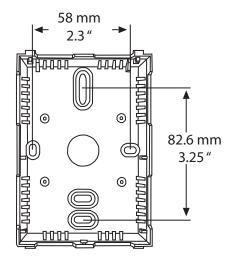




DIMENSIONS









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.