

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.

SPECIFICATION	13.
Power Supply	24Vac/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")
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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:

			FEEC			
MOD	DEL	Product Description				
HTE	RC	Room Humidity/Temperature Transmitter				
				_	_	
		CODE	Accuracy			
		2	2%			
		3 5	3% 5%			
			CODE	LCD Displa	ay	
			N L	Concealed Viewable		
				CODE	Output	
				I V	4-20 mA o 0-5 Vdc or	utput 0-10 Vdc output - Jumper selectable
					0-5 Vdc or	O-10 Vdc output - Jumper selectable Options Override switch (Includes OCC input)
					0-5 Vdc or	0-10 Vdc output - Jumper selectable Options
	7	•			0-5 Vdc or CODE S J	0-10 Vdc output - Jumper selectable Options Override switch (Includes OCC input) Communication Jack (3.5 mm phono)

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

FAN SPEED SWITCH

RangeOff, Auto, Low, Medium, High ..Resistance: 0, 2, 4, 6, 8 KΩ Signal ... (Custom ranges available)

NETWORK COMMUNICATIONS

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









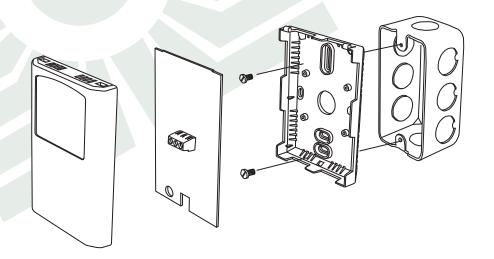


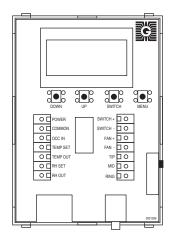
TYPICAL INSTALLATION:

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

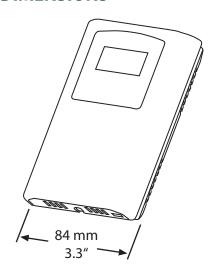
The HTRC series can be mounted directly to a single gang electrical box or directly to a wall. Insulating foam is adhered to the back of the enclosure to provide a thermal barrier from wall temperatures.

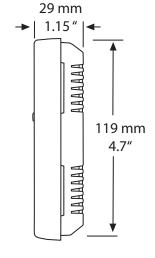
A terminal block connection is provided for connection to the Building Automation System.

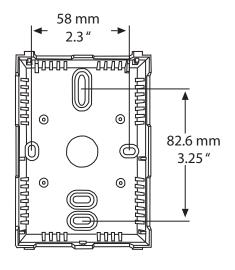




DIMENSIONS









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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.