



# GREYSTONE ENERGY SYSTEMS INC

## ROOM HUMIDITY /TEMPERATURE TRANSMITTER RH110B Series

The RH110B series uses a highly accurate and reliable Thermoset Polymer based capacitance humidity sensor and Platinum RTD temperature sensor together with state-of-the-art digital linearization and temperature compensated circuitry in an attractive, low profile enclosure to monitor room humidity & temperature levels.

### SPECIFICATION:

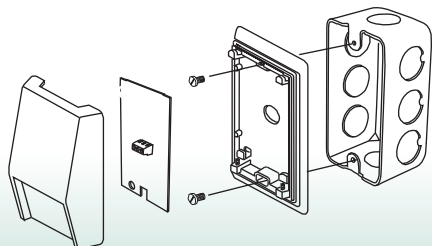
Humidity Sensor Type:.....Thermoset Polymer based capacitive  
 Accuracy at 25°C:.....±2, 3, or 5% RH, (5% to 95% RH)  
 Measurement Range:.....0 to 100% RH  
 Temperature Dependence:.....±0.05% RH/ °C  
 Hysteresis:.....±1.5% RH maximum  
 Repeatability:.....±0.5% RH typical  
 Linearity:.....±0.5% RH typical  
 Stability:.....±1% RH typical at 50% RH in 5 yrs.  
 Sensor Response Time:.....15 seconds typical  
 Sensitivity:.....0.1% RH  
 Temperature Sensor Type:.....1000 Ω Platinum, IEC751,  
 385 Alpha, thin film  
 Class B: ±0.3°C @ 0°C  
 Accuracy:.....±0.1% of span  
 Operating Temperature:.....0° to 50°C (32° to 122°F)  
 Operating Humidity:.....0 to 95% RH non-condensing  
 Power Supply:.....18 to 35 Vdc  
 Consumption:.....22 mA maximum  
 Input Voltage Effect:.....Negligible over specified operating range  
 Protection Circuitry:.....Reverse voltage protected and output limited  
 Output Signal:.....4-20 mA loop-powered  
 Output Drive at 24 Vdc:.....550 ohms max  
 Internal Adjustments:.....Clearly marked ZERO and SPAN pots  
 Wiring Connections:.....Screw terminal block (14 to 22 AWG)  
 Enclosures:.....IP20 (Nema 1), 70x114x32mm (2.75" w x 4.5" h x 1.25" d)

### TYPICAL INSTALLATION:

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

The RH110B 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.



### PART NUMBER SELECTED

### PRODUCT SELECTION INFORMATION:

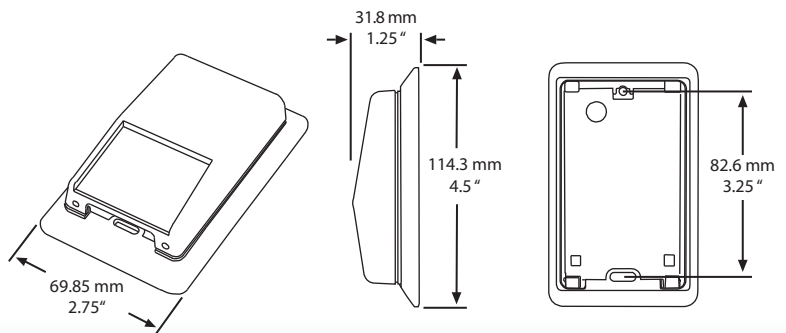
MODEL	Product Description
RH110B	Room Designer Humidity/Temperature Transmitter

CODE	RH Accuracy
02C	2%
03C	3%
05C	5%

CODE	Scaled Temperature Range
1A1	0° - 35°C (32° - 95°F)
1A2	0° - 50°C (32° - 122°F)

RH110B    02C    1A1

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



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