



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:

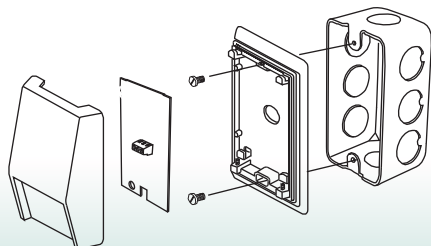
Humidity Sensor Type.....Thermoset Polymer based capacitive
Accuracy $\pm 2, 3$, or 5% RH, (5% to 95% RH)
Measurement Range.....0 to 100% RH
Temperature Dependence..... $\pm 0.05\%$ RH/ $^{\circ}\text{C}$
Hysteresis $\pm 1.5\%$ RH maximum
Repeatability $\pm 0.5\%$ RH typical
Linearity $\pm 0.5\%$ RH typical
Stability $\pm 1\%$ RH typical at 50% RH in 5 yrs.
Sensor Response Time15 seconds typical
Sensitivity.....0.1% RH
Temperature Sensor Type.....1000 Ω Platinum, IEC751,
385 Alpha, thin film
Class B: $\pm 0.3^{\circ}\text{C}$ @ 0°C
Accuracy $\pm 0.1\%$ of span
Operating Temperature 0° to 70°C (32° to 158°F)
Operating Humidity0 to 95% RH non-condensing
Power Supply18 to 35 Vdc
Consumption22 mA maximum
Input Voltage EffectNegligible over specified operating
range
Protection Circuitry.....Reverse voltage protected and
output limited
Output Signal.....4-20 mA loop-powered
Output Drive at 24 Vdc550 ohms max
Internal AdjustmentsClearly marked ZERO and SPAN pots
Wiring Connections.....Screw terminal block (14 to 22 AWG)
EnclosuresIP20 (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:

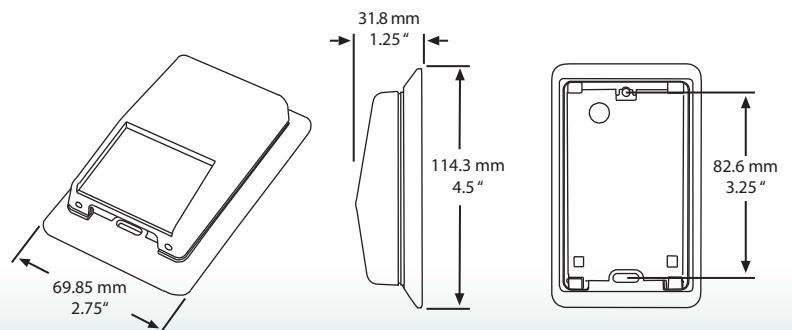
MODEL	Product Description
RH110B	Room Humidity/Temperature Transmitter

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)

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

Custom Temperature Range:



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RoHS
COMPLIANT

