SUBMITTAL

Part Number:

Room Designer Humidity Transducer

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
RH100B	Room Designer Humidity Transducer

CODE	Accuracy
02	2%
03	3%
05	5%

CODE	Optional Temperature Sensor
L	PT100-100 Ω Plat. IEC 751, 385 Alpha, thin film
C	PT1000-1000 Ω Platinum, IEC 751, 385 Alpha, thin film
F	1801 Ω, NTC Thermistor, ±0.2 C
E	3000 Ω, NTC Thermistor, ±0.2 C
H	100,000 Ω, NTC Thermistor, ±0.2 C
D	10,000 Ω, type 3, NTC Thermistor, ±0.2 C
J	10,000 Ω, type 2, NTC Thermistor, ±0.2 C
K	20,000 Ω, NTC Thermistor, ±0.2 C
M	1000 Ω Nickel
B	10,000 Ω, type 3, NTC Thermistor, ±0.2 C c/w 11K shunt resistor
G	2,252K Ω, NTC Thermistor, ±0.2 C

RH100B 02 J

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

EXAMPLE: Room designer humidity, 2% accuracy, c/w 10 K Thermistor,

The RH100B series uses a highly accurate and reliable Thermoset Polymer based capacitance humidity sensor and state-of-the-art digital linearization and temperature compensated cicuitry in an attractive, low profile enclosure to monitor room humidity levels. An optional temperature sensor is available.

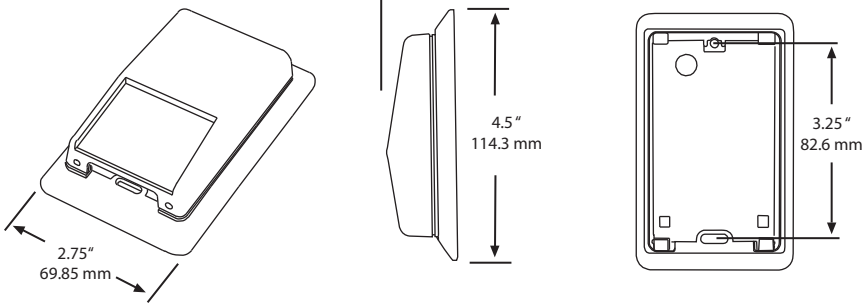
Sensor Type	Thermoset Polymer based capacitive
Range	0 to 100% RH
Accuracy	±2, 3, or 5% (5 to 95% RH)
Response	15 Seconds typical
Stability	±1% RH typical @ 50% RH in 5 years
Operating Temperature	0 to 50 ˚C (32 to 122 ˚F)
Power Supply	18 to 30 Vdc, 15 to 26 Vac
Output Signal	Jumper-selectable 4-20 mA current loop 0-1, 0-5, or 0-10 Vdc
Consumption	22 mA maximum
Optional Temperature Sensor	Various RTD's and thermistors available as 2 wire resistance output (See ordering chart)
Wiring Connections	Screw terminal block (14 to 22 AWG)

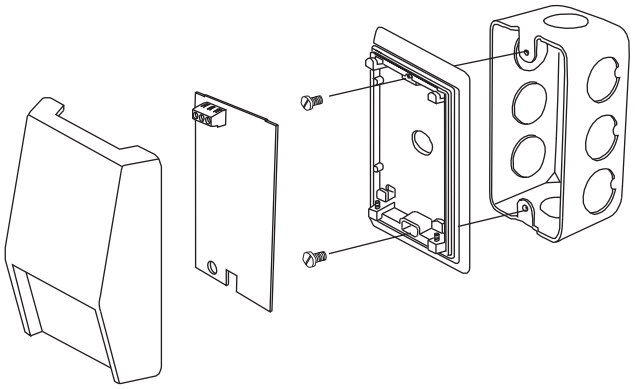
Installation:

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

The RH100B 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.





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ACCURACY BY DESIGN

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