SUBMITTAL
Room Executive Humidity Transducer

Part Number:

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
RH100A	Room Executive Humidity Transducer

CODE	Accuracy
02	2%
03	3%
05	5%

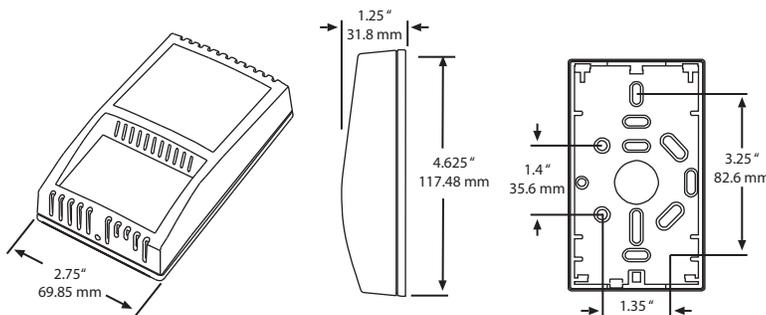| CODE	Optional Temperature Sensor
L	PT100-100 Ω Plat. IEC 751, 385 Alpha, thin film
C	PT1000-1000 Ω Platinum, IEC 751, 385 Alpha, thin film
F	1801 Ω, NTC Thermistor, ±0.2 C
E	3000 Ω, NTC Thermistor, ±0.2 C
H	100,000 Ω, NTC Thermistor, ±0.2 C
D	10,000 Ω, type 3, NTC Thermistor, ±0.2 C
J	10,000 Ω, type 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

CODE	Options
01	LCD display
02	Push button override, momentary
03	LCD display and push button override

RH100A	02	J	-	

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

EXAMPLE: Executive space humidity, 2% accuracy, c/w 10 K Thermistor,

LCD Specifications:
Display Range .... 0 – 99.9 % RH
Display Resolution .... 1% RH
Display Size .... 24 mm W x 11 mm H (0.95" x 0.45") 3 digit

1.25 "
31.8 mm

4.625 "
117.48 mm

1.4 "
35.6 mm

3.25 "
82.6 mm

2.75"
69.85 mm

1.35 "
34.3 mm

The RH100A 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. Additional options are available which include manual override & LCD display.
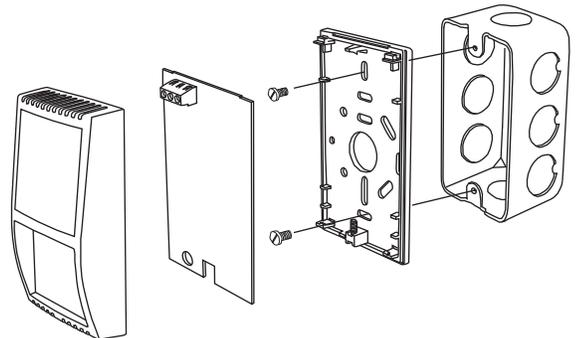
Sensor Type	Thermoset Polymer based capacitive
Range	0 to 100% RH
Accuracy	±2, 3, or 5% (5 to 95%)
Response	15 Seconds typical
Stability	±1% RH typical @ 50% RH in 5 years
Operating Temperature	0 to 50 ˚C (32 to 122 ˚F)
Power Supply	18 to 30 Vdc, 15 to 26 Vac
Output Signal	Jumper-selectable 4-20 mA current loop 0-1, 0-5, or 0-10 Vdc
Consumption	22 mA maximum
Optional Temperature Sensor	Various RTD's and thermistors available as a 2 wire output (See ordering chart)
Optional Override Switch	Normally open push-button, 0.4 VA at 24 Vac/dc 2 wire output
Wiring Connections	Screw Terminal Block (14 to 22 AWG)

Installation:

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

The RH100A 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.

RoHS
COMPLIANT