

# SUBMITTAL Room Humidity/Temperature Transducer

Part Number:

## PRODUCT SELECTION INFORMATION:

| MODEL  | Product Description                            |
|--------|--|
| RH110A | Room Executive Humidity/Temperature Transducer |

| CODE | RH Accuracy |
|------|-------------|
| 02   | 2%          |
| 03   | 3%          |
| 05   | 5%          |

| CODE | Temperature Sensor                                    |
|------|---|
| C    | PT1000-1000 Ω Platinum, IEC 751, 385 Alpha, thin film |

| CODE | Output Signal (RH and Temperature) |
|------|------------------------------------|
| 2A   | 4-20 mA                            |
| 2D   | 0-5 Vdc                            |
| 2E   | 0-10 Vdc                           |

| CODE | Options                 |
|------|-------------------------|
| 1    | 0° - 35°C (32° - 95°F)  |
| 2    | 0° - 50°C (32° - 122°F) |

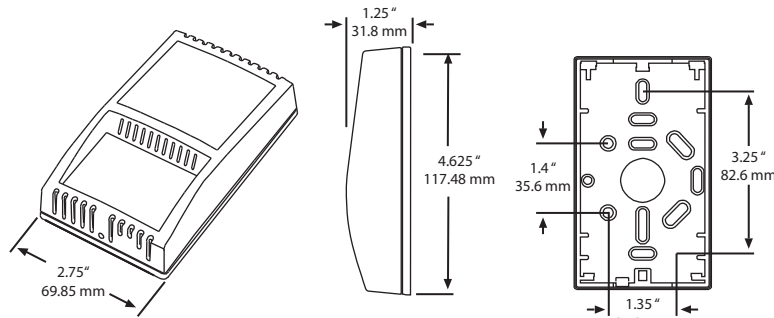
| CODE | Options                        |
|------|--------------------------------|
| AC   | Dual LCD display (°C - RH110A) |
| AF   | Dual LCD display (°F - RH110A) |

|        |    |   |    |   |   |
|--------|----|---|----|---|---|
| RH110A | 02 | C | 1A | 1 | - |
|--------|----|---|----|---|---|

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

**EXAMPLE:** Executive space humidity/temperature, 2% RH, 4-20 mA, 0° - 35°C



The RH110A 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. An optional dual line LCD display is available.

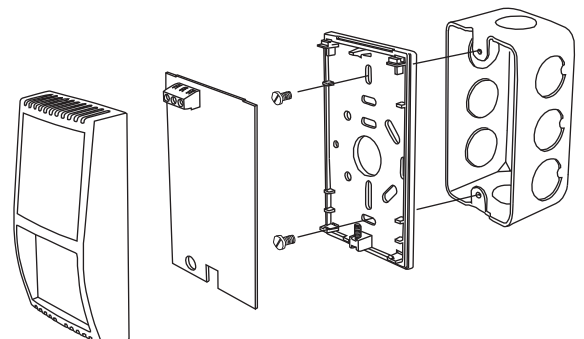
|                       |  |
|-----------------------|--|
| RH Sensor Type        | Thermoset Polymer based capacitive                         |
| RH Range              | 0 to 100% RH   |
| RH Accuracy           | ±2, 3, or 5% (5 to 95%)                                    |
| RH Response           | 15 Seconds typical   |
| RH Stability          | ±1% RH typical @ 50% RH in 5 years                         |
| Temp. Sensor          | PT1000-1000Ω Platinum, IEC 751, 385 Alpha, thin film       |
| Temp. Accuracy        | ±0.1% of span, including linearity                         |
| Operating Temperature | 0 to 50 °C (32 to 122 °F)                                  |
| Power Supply          | 18 to 35 Vdc, 15 to 26 Vac                                 |
| Output Signal         | Jumper-selectable 4-20 mA current loop<br>0-5, or 0-10 Vdc |
| Consumption           | 22 mA maximum  |
| LCD Display           | 2 Line x 8 character alpha numeric LCD                     |
| LCD Range             | 0-100% RH & 0°-35°C/32°-95°F (Other ranges available)      |
| LCD Resolution        | 1% RH or 0.5°C/0.5°F                                       |
| LCD Size              | 29W x 14H mm (1.15" w x 0.55" h)                           |
| Wiring Connections    | Screw Terminal Block (14 to 22 AWG)                        |

### Installation:

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

The RH110A 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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**RoHS**  
COMPLIANT

