

# SUBMITTAL

## Outside Air Humidity/Temperature Transducer

### PRODUCT SELECTION INFORMATION:

MODEL	Product Description
RH310A	Outside Air Humidity/Temperature Transducer

CODE	Accuracy
02	2%
03	3%
05	5%

CODE	Temperature Sensor
C	PT1000-1000 Ω Platinum, IEC 751, 385 Alpha, thin film
L	PT100-100 Ω Plat. IEC 751, 385 Alpha, thin film

CODE	Output Signal/Supply Voltage
2A	4-20mA, 24 Vac/dc
2D	0-5 Vdc, 24 Vac/dc
2E	0-10 Vdc, 24 Vac/dc

CODE	Temperature Range
1	0° - 35°C (32° - 95°F)
2	0° - 50°C (32° - 122°F)
6	-50° - 50°C (-58° - 122°F)

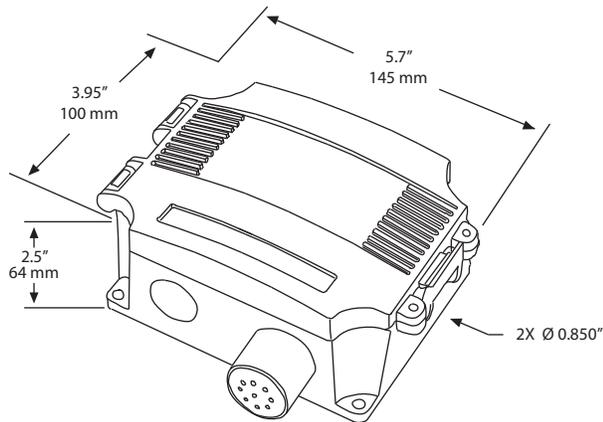
RH310A 02 C 2A 6

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

**EXAMPLE:** Outside air humidity/temperature, 2%, 4-20mA, -50° - 50°C

The RH310 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 to monitor humidity levels. A 60 micron HDPE filter protects the sensor for contaminants. A hinged, gasketed weatherproof ABS enclosure provides easy of installation and protection from the elements.

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 PT100-100Ω Platinum, IEC 751, 385 Alpha, thin film
Temp. Accuracy	±0.1% of span, including linearity
PCB Operating Temperature	-40 to 70 °C (-40 to 158 °F)
Power Supply	18 to 35 Vdc, 15 to 26 Vac
Output Signal	4-20 mA current loop 0-5, or 0-10 Vdc
Consumption	22 mA maximum
Enclosure	ABS - Nema 4 (IP65) - Weatherproof
Wiring Connections	Screw Terminal Block (14 to 22 AWG)

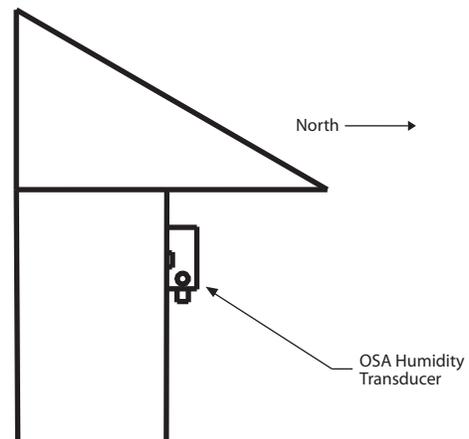


### Installation:

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

The RH310 should be mounted on an outside North facing wall, under the eaves which will provide protection from direct sunlight and wind.

The RH310 can be mounted directly to buildings wall face using the 4 provided mounting holes. There are 2 0.85" holes for conduit connection. One in each end



# GREYSTONE

ACCURACY BY DESIGN

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