



Product Specifications

Product #: 4415

<http://www.nrgsystems.com/sitecore/content/Products/4415.aspx>

Relative Humidity Sensor

RH-5X continuous measurement relative humidity sensor.

SPECIFICATIONS

Sensor type**Applications****Sensor range****Instrument compatibility****Signal type****Transfer function****Accuracy****Output signal range****Supply voltage****Mounting****Tools required****Operating temperature range****Operating humidity range****Connections****Cable length****Weight****Dimensions****Cable****Enclosure****Description**

polymer resistor humidity sensor

- wind resource assessment
- meteorological studies
- environmental monitoring

0 to 100% relative humidity

Symphonie with RH5 SCM + any iPack

Output signal

linear analog voltage

 $\% \text{ Relative Humidity} = \text{Voltage} \times 20$

- +/- 2% RH from 10% to 90% RH @ 25°C (77°F)
- +/- 3% RH from 5% to 10% RH and 90% to 95% RH @ 25°C (77°F)
- Contact Technical Support for information on additional uncertainty due to temperature effects.

0 to 5V for 0 to 100% RH, with a load resistance greater than 10 k ohms

Power requirements

10 V to 30 V DC, 12 V at 2.6 mA typical

Installation

uses a sheet metal bracket with a hose clamp, to be mounted to the tower, under the shelter box

8 mm (5/16 inch) nut driver or wrench

Environmental

-40°C to 70°C (-40°F to 158°F)

0 to 100% relative humidity

Physical

wire leads, 3 conductor shielded cable:

- Red: Power
- Black: Ground
- White: Signal out

1.5 m (5 feet)

0.62 kg (1.36 pounds)

110 mm (4.3 inches) x 109 mm (4.3 inches) x 50 mm (2.0 inches) enclosure dimensions, without the bracket or shroud

Materials

3 conductor 22 AWG, with overall foil shield and drain wire, chrome PVC jacket

polystyrene plastic box with galvanized steel mounting bracket

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