

## Relative Humidity Sensor

### FEATURES

- Inexpensive relative humidity measurement
- High level voltage output signal
- Long term stability



The RH-5 is a low-cost continuous measurement relative humidity sensor. It is compatible with Symphonie loggers equipped with any iPack and RH SCM, and 9300 loggers equipped with rechargeable batteries and PV panels.

The RH-5 uses a polymer resistor sensor which provides excellent linearity and sensitivity with fast response and long-term stability. Mounts to underside of shelter box. User must pre-drill two 5 mm (3/16 inch) holes or use self-tapping screws. Includes 1.5 m (5 feet) cable.

### SPECIFICATIONS

Description	Sensor type	polymer resistor humidity sensor
	Applications	<ul style="list-style-type: none"> <li>• wind resource assessment</li> <li>• meteorological studies</li> <li>• environmental monitoring</li> </ul>
	Sensor range	5 to 95% relative humidity
	Instrument compatibility	Symphonie with RH5 SCM + any iPack
Output signal	Signal type	linear analog voltage
	Transfer function	% Relative Humidity = Voltage x 20
	Accuracy	+/- 5% RH from 5 to 95% RH [at 25 °C (77 °F)]
	Output signal range	0 to 5V for 0 to 100% RH, with a load resistance greater than 10 k ohms
Power requirements	Supply voltage	10 V to 36 V DC, 12 V at 1.2 mA typical
Installation	Mounting	bolts to bottom of logger shelter box with supplied hardware
	Tools required	<ul style="list-style-type: none"> <li>• #2 Phillips (+) screwdriver</li> <li>• 9 mm (11/32 inch) nut driver or wrench</li> </ul>



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# SPECIFICATIONS

Environmental	Operating temperature range	-40 °C to 54 °C (-40 °F to 130 °F)
	Operating humidity range	0 to 95% relative humidity
Physical	Connections	wire leads, 3 conductor shielded cable: <ul style="list-style-type: none"><li>• Red: Power</li><li>• Black: Ground</li><li>• White: Signal out</li></ul>
	Cable length	1.5 m (5 feet)
	Weight	0.68 kg (1.5 pounds)
	Dimensions	115 mm (4.5 inches) x 102 mm (4 inches) x 80 mm (3.1 inches)
Materials	Cable	3 conductor 22 AWG, with overall foil shield and drain wire, chrome PVC jacket
	Enclosure	Cast aluminum and stainless steel

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