

SPECIFICATIONS

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 9300 loggers equipped with rechargeable batteries and PV panels as well as Symphonie loggers equipped with any iPack and RH SCM.

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. Includes 1.5 m (5 feet) cable.

SPECIFICATIONS

Description	Sensor type	polymer resistor humidity sensor
	Applications	<ul style="list-style-type: none">• wind resource assessment• meteorological studies• environmental monitoring
	Sensor range	0 to 95% relative humidity
	Instrument compatibility	<ul style="list-style-type: none">• Symphonie w/ RH SCM + any iPack• 9300 w/ TPRH SIM card + PV/battery
Output signal	Signal type	linear analog voltage
	Transfer function	(Full Span) % Relative Humidity = Voltage x 20
	Accuracy	+/- 5% RH from 5 to 95% RH [at 25 °C (77 °F)]
	Output signal range	<ul style="list-style-type: none">• Full Span: 0 to 5V for 0 to 100% RH, with a load resistance greater than 10 k ohms• Half span output: exactly half output
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



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	Tools required	<ul style="list-style-type: none"> • phillips head screwdriver • adjustable wrench
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, 4 conductor shielded cable: <ul style="list-style-type: none"> • Red: Power • Black:Ground • Green: Signal out • White:half-span signal
	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	4 conductor 22 AWG, with overall foil shield and drain wire, chrome PVC jacket
	Enclosure	Cast aluminum and stainless steel



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