Relative Humidity Sensor



Item Number: 4415

Description	
Sensor type	polymer resistor humidity sensor
Applications	wind resource assessment
	meteorological studies
	environmental monitoring
Sensor range	0 to 100% relative humidity
Instrument compatibility	Symphonie with RH5 SCM + any iPack

Output signal	
Signal type	linear analog voltage

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Transfer function	% Relative Humidity = Voltage x 20	
Accuracy	 +/- 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. 	
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 30 V DC, 12 V at 2.6 mA typical	
Local	Installation	
Mounting	uses a sheet metal bracket with a hose clamp, to be mounted to the tower, under the shelter box	
Tools required	8 mm (5/16 inch) nut driver or wrench	
Enviro	nmental	
Operating temperature range	-40°C to 70°C (-40°F to 158°F)	
Operating humidity range	0 to 100% relative humidity	
Physical		
Connections	wire leads, 3 conductor shielded cable:Red: PowerBlack: GroundWhite: Signal out	
Cable length	1.5 m (5 feet)	

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Weight	0.62 kg (1.36 pounds)
Dimensions	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	
Cable	3 conductor 22 AWG, with overall foil shield and drain wire, chrome PVC jacket
Enclosure	polystyrene plastic box with galvanized steel mounting bracket

可搭配

Symphonie SCM Card for RH5 or RH5X

Item Number: 3156



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Description	
Accessory type	signal conditioning module Signal conditioning module
Instrument compatibility	Symphonie NRG logger
Sensor compatibility - analog channels	for (1) NRG #RH5 relative humidity sensor
Functions	 provides input channel electronics for adding a NRG #RH5 relative humidity sensor provides power from iPack to the RH-5

Power requirements	
Other	from any Symphonie logger equipped with an iPack and PV

Physical	
Connections	installs in Analog 9, Analog 10, Analog 11, Analog 12 SCM slot
Dimensions	41 mm x 27 mm 5 mm (1.6 inches x1.07 inches x 0.2 inches)