

## Cost effective RH and temperature sensor

Mid-range calibration accuracy



### Overview

The HMP60, manufactured by Vaisala, measures air temperature for the range of -40° to 60°C, and relative humidity for the range of 0 to 100% RH. It uses the INTERCAP® capacitive RH chip. This field-replaceable chip eliminates the downtime typically required for the recalibration process.

### Sensor Mounts

When exposed to sunlight, the HMP60 must be housed in a solar radiation shield, typically the RAD06 or 41303-5A.

Please refer to the RAD06 brochure for more details.

### Benefits and Features

- › Cost effective RH and temperature sensor
- › Mid-range calibration accuracy
- › Analogue outputs
- › Field replaceable RH element
- › Compact package with connector for the cable



## Specifications

<b>Supply Voltage:</b>	5 to 28 Vdc (typically powered by datalogger's 12 V supply)	<b>Housing Material Body:</b>	AISI 316 Stainless Steel filter Cap: Chrome-coated ABS plastic housing
<b>Current Consumption</b>		<b>Filter</b>	
<b>Typical:</b>	1 mA	<b>Description:</b>	0.2 µm Teflon membrane
<b>Maximum:</b>	5 mA	<b>Diameter:</b>	1.2 cm (0.5 in)
<b>Dimensions</b>		<b>Settling Time:</b>	1 s
<b>Diameter:</b>	1.2 cm (0.47 in.)	<b>Sensor Output:</b>	0 - 1V DC
<b>Length:</b>	7.1 cm (2.8 in.)		
<b>Weight with 6 ft cable:</b>	0.05 kg (0.1 lb)		

### AIR TEMPERATURE

<b>Temperature Sensor:</b>	1000 ohm Platinum Resistance Thermometer	<b>Measurement Range:</b>	0 to 100% RH, non-condensing
<b>Measurement Range:</b>	-40° to +60°C	<b>Typical Accuracy</b>	
<b>Temperature Accuracy:</b>	±0.6°C	<b>0° to +40°C:</b>	±3%, 0 to 90% range; ±5%, 90 to 100% range
<b>RELATIVE HUMIDITY (RH)</b>		<b>-40° to 0°C:</b>	±5%, 0 to 90% range; ±7%, 90 to 100% range
<b>Sensor:</b>	Vaisala's INTERCAP capacitive chip	<b>+40° to +60°C:</b>	±5%, 0 to 90% range; ±7%, 90 to 100% range

## Ordering Information

### Air Temperature and Relative Humidity Probe

<b>HMP60</b>	Vaisala Temperature/RH Probe with 3 m standard cable length.
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### Accessories and Replacement Parts

<b>RAD06</b>	High performance radiation shield
<b>41303-5A</b>	6-Plate R. M. Young Radiation Shield to house the HMP60
<b>008056</b>	Replacement RH chip for the HMP60.