



## Accurate, Rugged

Ideal for long-term, unattended applications

### Overview

The HMP60, manufactured by Vaisala, probe measures air temperature for the range of  $-40^{\circ}$  to  $+60^{\circ}\text{C}$ , and relative humidity for the range of 0 to 100% RH. It uses the INTERCAP<sup>®</sup>

capacitive RH chip. This field-replaceable chip eliminates the downtime typically required for the recalibration process.

### Benefits and Features

- › Field-replaceable humidity chip eliminates recalibration downtime
- › Compatible with most Campbell Scientific dataloggers
- › Can be mounted to a tower/tripod mast or crossarm

### Specifications

Supply Voltage	5 to 28 Vdc (typically powered by datalogger's 12 V supply)
Current Consumption	› 1 mA (typical) › 5 mA (maximum)
Filter Description	0.2 $\mu\text{m}$ Teflon membrane
Settling Time	1 s
Housing Classification	IP65
Housing Material	AISI 316 stainless steel
Filter Cap Material	Chrome-coated ABS plastic
Field-Replaceable Chip or Recalibrate	Field-replaceable chip (RH only)
Sensor Diameter	1.2 cm (0.5 in.)
Filter Diameter	1.2 cm (0.5 in.)

Length	7.1 cm (2.8 in.)
Weight	0.05 kg (0.1 lb) with 1.83 m (6 ft) cable

#### Relative Humidity

Sensing Element	Vaisala's INTERCAP capacitive chip
Measurement Range	0 to 100% RH (non-condensing)
Typical Accuracy at $-40^{\circ}$ to $0^{\circ}\text{C}$	› $\pm 5\%$ (0 to 90% RH) › $\pm 7\%$ (90 to 100% RH)
Typical Accuracy at $0^{\circ}$ to $40^{\circ}\text{C}$	› $\pm 3\%$ (0 to 90% RH) › $\pm 5\%$ (90 to 100% RH)
Typical Accuracy at $40^{\circ}$ to $60^{\circ}\text{C}$	› $\pm 7\%$ (90 to 100% RH) › $\pm 5\%$ (0 to 90% RH)
Output Signal Range	0 to 1 Vdc

## Air Temperature

Sensing Element 1000 ohm Platinum Resistance Thermometer (PRT)

Measurement Range -40° to +60°C

Accuracy  $\pm 0.6^{\circ}\text{C}$

Output Signal Range 0 to 1 Vdc



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