

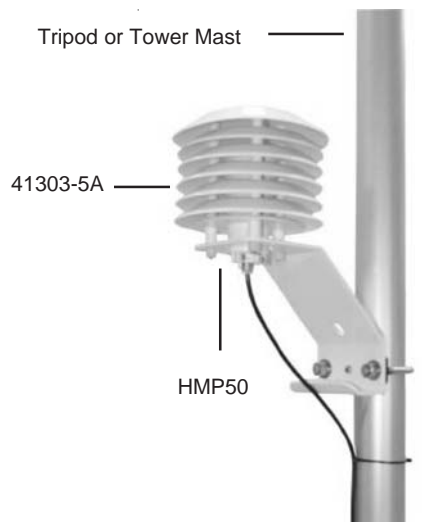
HMP50 Temperature and Relative Humidity Probe



The HMP50, manufactured by Vaisala, measures air temperature with a 1000 ohm platinum resistance thermometer (PRT), and RH with the INTERCAP[®] capacitive chip. The chip is field-replaceable, as needed, and eliminates the downtime typically required for the recalibration process.

Sensor Mounts

When exposed to sunlight, the HMP50 must be housed in a Met 20 or Gill 6-plate radiation shield.



Features

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

Ordering Information

HMP50 - Temperature and RH Probe with standard lead length 3m

Met 20 - Radiation Shield

007902 - Replacement RH chip for the HMP50/50Y.

CSL 553

December 2009

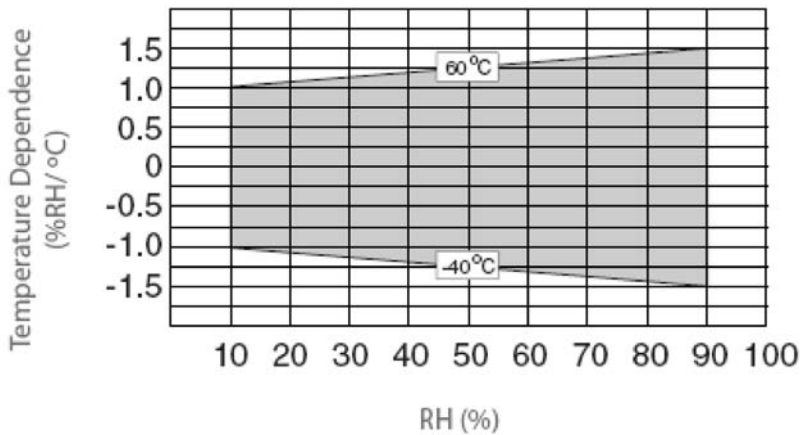
Specifications

Supply Voltage:	7 to 28 Vdc (typically powered by datalogger's 12 V supply)
Current Consumption:	2 mA typical
Diameter:	1.2 cm (0.47")
Length:	7.1 cm (2.8")
Weight:	0.05 kg (0.1 lbs)
Housing Material:	chrome-coated aluminium and chrome-coated ABS plastic
Settling time from power-up:	150 ms

Relative Humidity (RH)

Temperature Sensor:	Vaisala's INTERCAP capacitive chip
Measurement Range:	Range: 0 to 98% RH, non-condensing
Accuracy:	0-90% range: $\pm 3.0\%$ 90-98% range: $\pm 5.0\%$

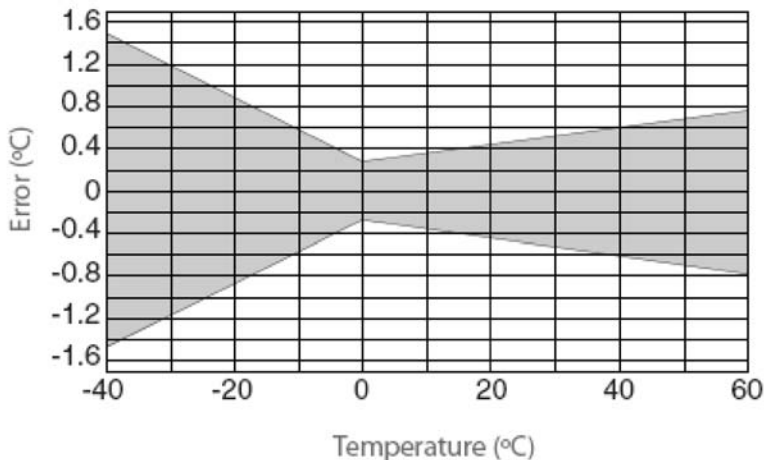
Temperature Dependence of Relative Humidity Measurement:



Typical Long-Term Stability: Better than $\pm 1\%$ RH per year

Air Temperature

Temperature Sensor:	1000 ohm Platinum Resistance Thermometer
Measurement Range:	-40° to +60°C
Temperature Accuracy:	



Campbell Scientific products are available from: