

Temperature and Relative Humidity Probe

Model HMP50

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.

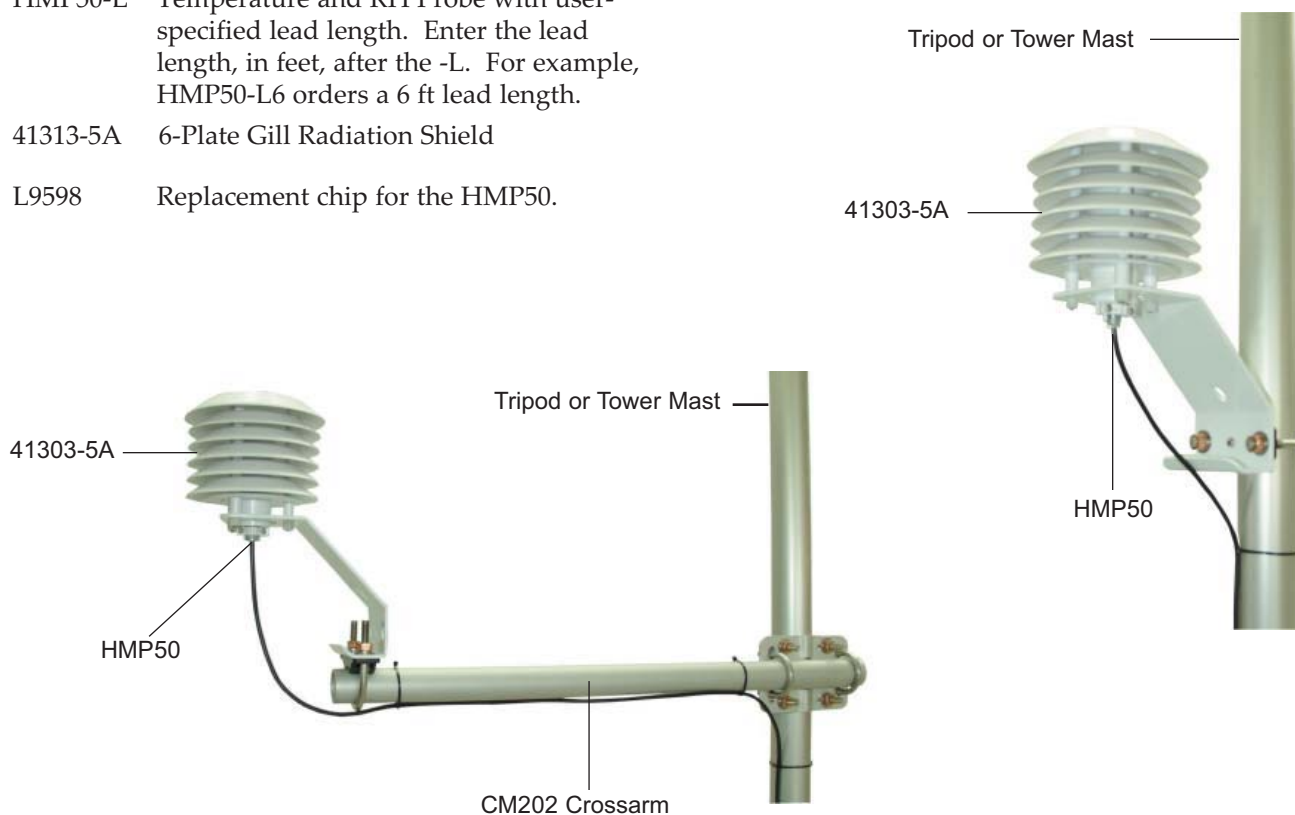
Sensor Mounts

When exposed to sunlight, the HMP50 must be housed in a 41303-5A 6-plate radiation shield. To attach the 41303-5A to a CM202, CM204, or CM206 crossarm, place the 41303-5A's u-bolt in the bottom holes. To attach the radiation shield directly to a tripod mast, tower mast, or tower leg, place the u-bolt in the side holes.



Ordering Information

- HMP50-L Temperature and RH Probe with user-specified lead length. Enter the lead length, in feet, after the -L. For example, HMP50-L6 orders a 6 ft lead length.
- 41313-5A 6-Plate Gill Radiation Shield
- L9598 Replacement chip for the HMP50.



CAMPBELLSCIENTIFIC
CANADA CORP.

11564 - 149 street - edmonton - alberta - T5M 1W7
tel 780.454.2505 fax 780.454.2655
www.campbellsci.ca

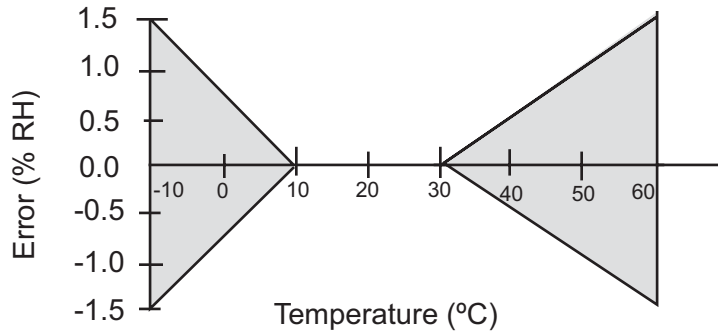
Specifications

Relative Humidity

Operating Range: 0 to 98% RH

Accuracy: 0-90% range: $\pm 3.0\%$
90-98% range: $\pm 5.0\%$

Temperature Dependence of Relative Humidity Measurement:

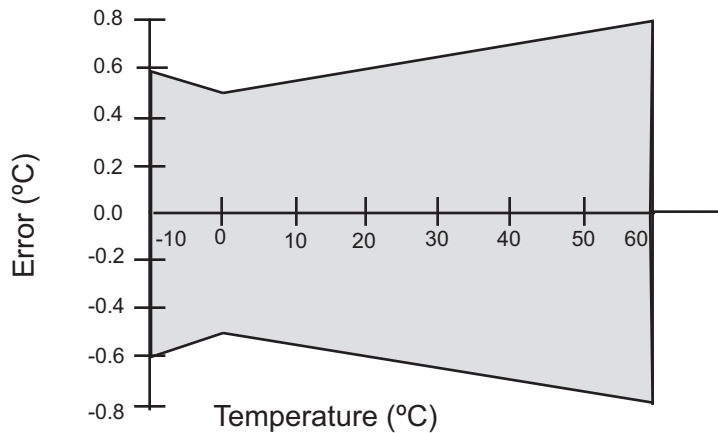


Typical Long-Term Stability: Better than $\pm 1\%$ RH per year

Temperature

Measurement Range: -25° to $+60^{\circ}\text{C}$

Temperature Accuracy:



General

Supply Voltage: 7 to 28 Vdc (typically powered by datalogger's 12 V supply)

Current Consumption: 2 mA typical

Diameter: 0.47" (1.2 cm)

Length: 2.8" (7.1 cm)

Housing Material: chrome-coated aluminum and chrome-coated ABS plastic