

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

Ordering Information

Air Temperature and Relative Humidity Probe

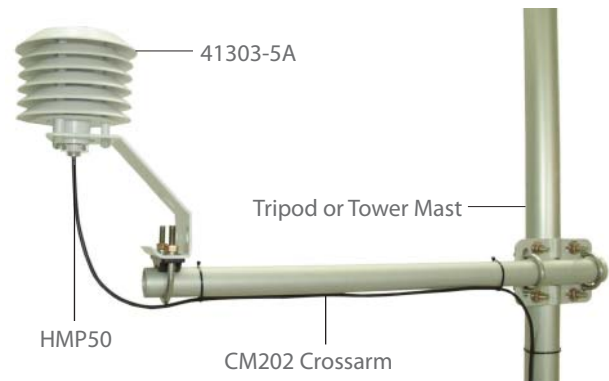
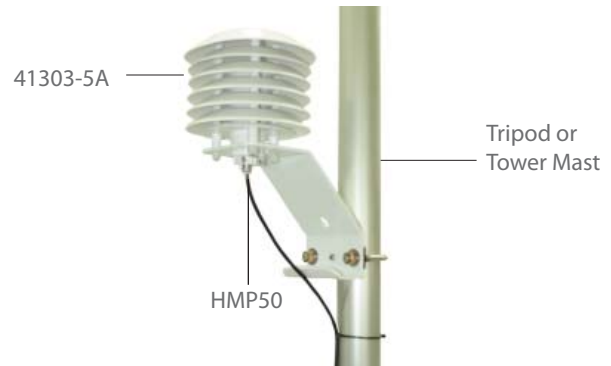
HMP50-L Vaisala Temperature/RH Probe with user-specified lead length. Enter lead length, in feet, after the -L.

Pigtail Options (choose one)

- PT** Cable terminates in pigtail for direct connection to a datalogger's terminals.
- PW** Cable terminates in connector for attachment to a prewired enclosure.

Accessories and Replacement Parts

- 41303-5A** 6-Plate Gill Radiation Shield to house the HMP50
- 9598** Replacement chip for the HMP50.



Recommended Lead Lengths

2 m Height		Atop a tripod or tower via a 2 ft crossarm such as the CM202							
Mast/Leg	CM202	CM6	CM10	CM110	CM115	CM120	UT10	UT20	UT30
9'	11'	11'	14'	14'	19'	24'	14'	24'	37'

Note: Add two feet to the cable length if you are mounting the enclosure on the leg base of a light-weight tripod.

Specifications

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

Current Consumption: 2 mA typical

Dimensions

Diameter: 0.47" (1.2 cm)

Length: 2.8" (7.1 cm)

Weight (w/ 6 ft cable): 0.1 lbs (0.05 kg)

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

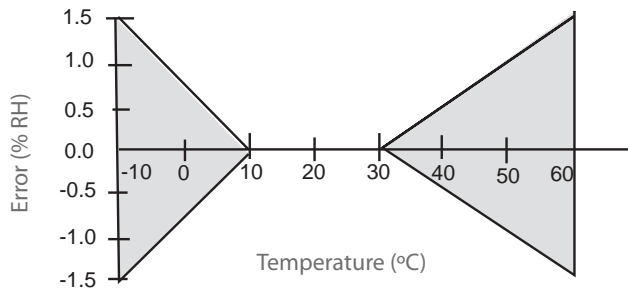
Relative Humidity (RH)

Sensor: Vaisala's INTERCAP capacitive chip

Measurement Range: 0 to 98% RH

Accuracy: $\pm 3\%$, 0 to 90% range;
 $\pm 5\%$, 90 to 98% range

Temperature Dependence of RH Measurement:



Air Temperature

Temperature Sensor: 1000 ohm Platinum Resistance Thermometer

Measurement Range: -25° to +60°C

Temperature Accuracy:

