

HMP60

Temperature and Relative Humidity Probe



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 41303-5A. The 41303-5A is a 6-plate naturally-aspirated radiation shield. To attach the 41303-5A directly to a mast or tower leg, place the U-bolt in the side holes. To attach the 41303-5A to a CM202, CM204, or CM206 cross-arm, place the 41303-5A's U-bolt in the bottom holes.

Ordering Information

Air Temperature and Relative Humidity Probe

HMP60-L Vaisala Temperature/RH Probe with user-specified cable length. Enter cable length, in feet, after the -L. Must choose a cable termination option (see below).

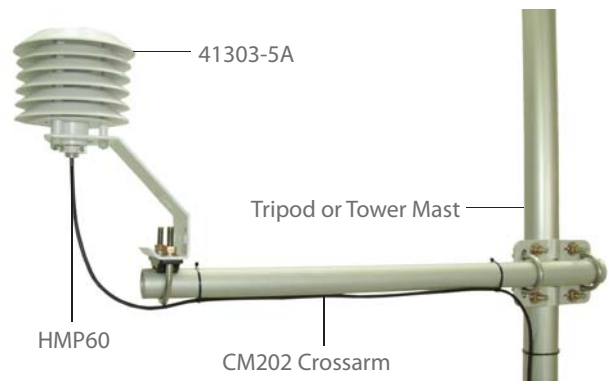
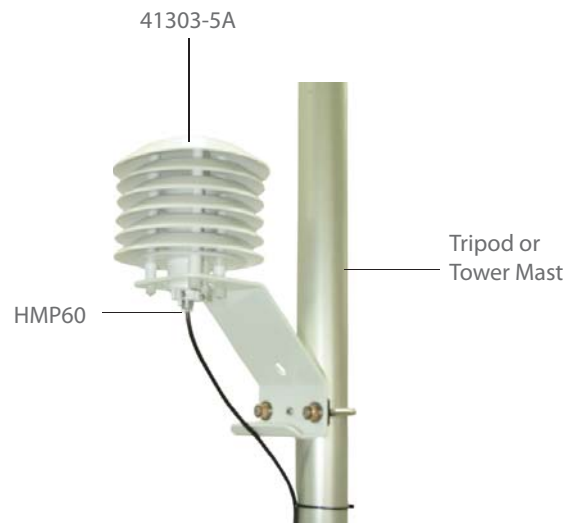
Cable Termination Options (choose one)

- PT** Cable terminates in stripped and tinned leads for direct connection to a datalogger's terminals.
- PW** Cable terminates in a connector for attachment to a prewired enclosure.
- CWS** Cable terminates in a connector for attachment to a CWS900-series interface. Connection to a CWS900-series interface allows this sensor to be used in a wireless sensor network.
- C** Cable terminates in a connector for attachment to a CS110 Electric Field Meter or ET107 weather station.
- RQ** Cable terminates in a connector for attachment to a RAW5-P Permanent Remote Automated Weather Station.

Accessories and Replacement Parts

41303-5A 6-Plate Gill Radiation Shield to house the HMP60.

9598 Replacement chip for the HMP60.



Recommended Cable Lengths

2-m Height		Atop a tripod or tower via a 2-ft crossarm such as the CM202								
Mast/Leg	CM202	CM6	CM106	CM10	CM110	CM115	CM120	UT10	UT20	UT30
9 ft	11 ft	11 ft	14 ft	14 ft	14 ft	19 ft	24 ft	14 ft	24 ft	37 ft

Note: Add two feet to the cable length if mounting the enclosure to the leg base of a CM106, CM110, CM115, or CM120 tripod.

Specifications

Supply Voltage:	5 to 28 Vdc (typically powered by datalogger's 12 V supply)
Current Consumption	
Typical:	1 mA
Maximum:	5 mA
Dimensions	
Diameter:	1.2 cm (0.47 in.)
Length:	7.1 cm (2.8 in.)
Weight with 6 ft cable:	0.05 kg (0.1 lb)
Housing Material:	chrome-coated aluminum and chrome-coated ABS plastic
Filter	
Description:	0.2 µm Teflon membrane
Diameter:	1.2 cm (0.5 in)
Settling Time:	1 s

Air Temperature

Temperature Sensor: 1000 ohm Platinum Resistance Thermometer

Measurement Range: -40° to +60°C

Temperature Accuracy: ±0.6°C

Relative Humidity (RH)

Sensor: Vaisala's INTERCAP capacitive chip

Measurement Range: 0 to 100% RH, non-condensing

Accuracy

0° to +40°C: ±3%, 0 to 90% range;
±5%, 90 to 100% range

-40° to 0°C: ±5%, 0 to 90% range;
±7%, 90 to 100% range

+40° to +60°C: ±5%, 0 to 90% range;
±7%, 90 to 100% range

