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 41030-5A 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 crossarm, place the 41303-5A's U-bolt in the bottom holes.

Ordering Information
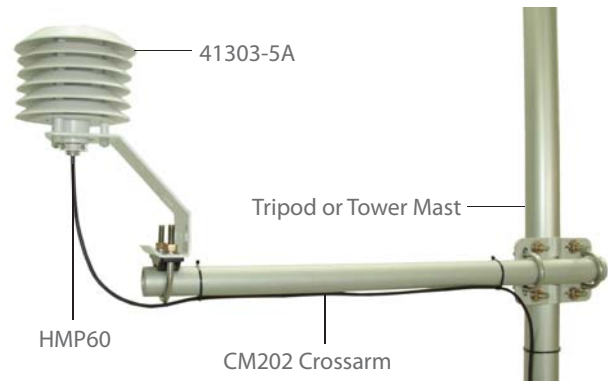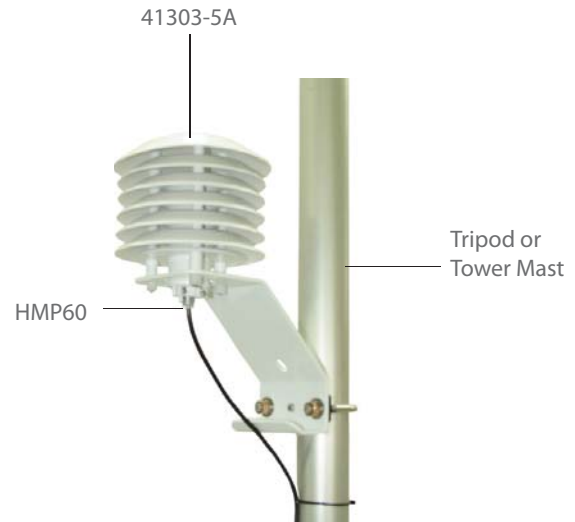
Air Temperature and Relative Humidity Probe

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 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.

Accessories and Replacement Parts

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

9598   Replacement chip for the HMP60.

41303-5A

Tripod or Tower Mast

HMP60

41303-5A

Tripod or Tower Mast

HMP60

CM202 Crossarm

Recommended Cable 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 ft	11 ft	11 ft	14 ft	14 ft	19 ft	24 ft	14 ft	24 ft	37 ft

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: 5 to 28 Vdc (typically powered by datalogger's 12 V supply)

Current Consumption
 Typical: 1 mA
 Maximum: 5 mA

Dimensions
 Diameter: 0.47 in. (1.2 cm)
 Length: 2.8 in. (7.1 cm)

Weight with 6 ft cable: 0.1 lb (0.05 kg)

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

Filter
 Description: 0.2 μm Teflon membrane
 Diameter: 0.5 in (1.2 cm)

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