



Overview

The HMP50 measures both temperature and relative humidity and is suitable for long-term, unattended monitoring. The humidity component features a field-

replaceable chip, which eliminates downtime typically required for the recalibration process. The HMP50 is compatible with all Campbell Scientific data loggers.

Benefits and Features

- ▶ Field-replaceable humidity chip eliminates recalibration down time
- ▶ Can be mounted to a tower/tripod mast or crossarm

Technical Description

The HMP50 measures temperature with a 1000 Ohm platinum resistance thermometer (PRT) and relative humidity (RH) with a 50Y Intercap capacitive chip. The chip is field-replaceable, which eliminates the downtime typically required for the recalibration process. This temperature and

RH sensor is compatible with all Campbell Scientific data loggers.

The HMP50 should be housed in a solar radiation shield—typically the 41303-5A. The 41303-5A 6-plate naturally aspirated shield attaches to a mast, crossarm, or tower leg.

Specifications

Supply Voltage	7 to 28 Vdc (typically powered by data logger's 12 V supply)
Current Consumption	2 mA (typical)
Housing Material	Chrome-coated aluminum and chrome-coated ABS plastic
Operating Temperature Range	-40° to +60°C
Diameter	1.2 cm (0.47 in.)

Length	7.1 cm (2.8 in.)
Weight	0.05 kg (0.1 lb) with 1.83-m (6-ft) cable

Relative Humidity	
Sensor	Vaisala's INTERCAP capacitive chip
Measurement Range	0 to 98% RH (non-condensing)
Accuracy	▶ ±5% (90% to 98% range)

› ±3% (0% to 90% range)

Temperature Dependence See graph in product brochure.

Temperature

Temperature Sensor	1000 ohm Platinum Resistance Thermometer
Measurement Range	-40° to +60°C
Accuracy	See graph in product brochure.

For comprehensive details, visit: www.campbellsci.eu/hmp50 



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