



Overview

The HC2A-S3 is a replacement sensor for the retired [HC2S3 Temperature and Relative Humidity Probe](#). The sensor is a drop-in replacement for existing installations, requiring no

change in programming or wiring. This sensor does not ship with a cable. Please refer to the [HC2S3CBL1](#) if a cable is required.

Technical Description

The HC2A-S3 sensor is an update to the retired HC2S3, manufactured by Rotronic AG. This sensor features an updated housing and the HYGROMER HT-1 next-generation sensing element. The HC2A-S3 is fully backward-compatible with the previous generation of sensor, with matching

electrical and measurement specifications. However, the length of the sensor has increased by 2.5 cm (1.0 in.) and requires that the sensor be installed slightly lower in the radiation shield to optimize the position of the sensing elements in the shield.

Specifications

Temperature Range	-50 to +100°C (-58 to +212°F)
Temperature Accuracy (10 to 30°C)	±0.1°C
Humidity Range	0 to 100% RH
Humidity Accuracy (10 to 30°C)	±0.8% RH
Housing Material	Polycarbonate, white

Standard Dust Filter	Polyethylene, 40 µm
Sensor Type	HYGROMER® HT-1
Standard Output Scaling	0 to 1 V (-40 to +60°C / 0 to 100% RH)
Diameter	15 mm (0.6 in.)
Length	108 mm (3.3 in.)
Weight	17 g (0.6 oz)

For comprehensive details, visit: www.campbellsci.eu/hc2a-s3 