



## Measure Rapid Fluctuations in Atmospheric Water Vapor

### Overview

The KH20 is a highly sensitive hygrometer designed for measurement of rapid fluctuations in atmospheric water vapor, not absolute concentrations. It is typically used together with a CSAT3B in eddy-covariance systems. This highly

sensitive hygrometer measures rapid fluctuations in atmospheric water vapor. It does not measure absolute concentrations.

### Benefits and Features

- › Compatible with most Campbell Scientific dataloggers
- › High frequency response suitable for eddy-covariance applications
- › Well-suited for long-term, unattended applications

### Detailed Description

The KH20 is typically used with a CSAT3B Sonic Anemometer in eddy-covariance systems for measuring water vapor flux. This highly sensitive hygrometer measures rapid fluctuations in atmospheric water vapor. It does not measure absolute

concentrations. The KH20 is compatible with most of our dataloggers.

Routine maintenance is required to keep source windows free of scale. The KH20 can be used with the window scaled if scaled calibration is used.

### Specifications

Calibrated Range	1.7 to 19.5 g/m <sup>3</sup> (nominal)
Type	Ultraviolet krypton hygrometer
Input Voltage Range	10 V to 16 Vdc

Current Consumption	20 mA max (at 12 Vdc)
Power Consumption	0.24 W
Output Signal Range	0 to 5 Vdc

Cable Length	7.62 m (25 ft)	
Mounting Pipe Length	50 cm (20 in.)	
Dimensions	<ul style="list-style-type: none"> <li>› 29 x 23 x 3 cm (11.5 x 9 x 1.25 in.) for sensor head</li> <li>› 19 x 13 x 5 cm (7.5 x 5 x 2 in.) for electronics box</li> </ul>	<ul style="list-style-type: none"> <li>› 29 x 18 x 6.5 cm (11.5 x 7 x 2.5 in.) for rain shield with mount</li> <li>› 64 x 38 x 18 cm (25 x 15 x 7 in.) for carrying case</li> </ul>
	Weight	6.8 kg (15 lb)

For comprehensive details, visit: [www.campbellsci.com.au/kh20](http://www.campbellsci.com.au/kh20) 