



Sensitive yet Durable

Compatible with most Campbell Scientific dataloggers

Overview

The LWS, manufactured by METER Group, Inc., is a leaf-wetness sensor that can detect small amounts of water or ice on the sensor surface. It is designed to be deployed either in

the canopy or on a weather station mast. All of our dataloggers can measure its output signal.

Benefits and Features

- › Imitates characteristics of a leaf
- › Does not require painting or calibration of individual sensors
- › Detects trace amounts of water or ice on the leaf surface
- › Compatible with all Campbell Scientific dataloggers (including the CR200(X) series)
- › Compatible with the CW5900-series interfaces, allowing it to be used in a wireless sensor network

Technical Description

The LWS measures the dielectric constant of the sensor's upper surface. This method allows the sensor to detect the

presence of water or ice anywhere on the sensor's surface.

Specifications

Measurement Time	10 ms
Power	2.5 Vdc @ 2 mA to 5 Vdc @ 7 mA
Output	250 to 1500 mV
Operating Temperature Range	-20° to +60°C

Life Expectancy	2+ years (continuous use)
Dimensions	11.2 x 5.8 x 0.075 cm (4.4 x 2.3 x 0.0295 in.)
Weight	0.14 kg (5 oz) with 4.57-m (15-ft) cable

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