

Detects onset of snowfall and snowmelt

Proven performance and field tested

Overview

Weatherpia's SDMS-30 is a powerful and cost-effective 2D multipoint, laser based snowfall sensor. In the past, multipoint laser based snow depth sensors have typically been complex and costly, so the practical SDMS-30 was developed to address those issues. Performance and reliability of the device has been proven with thorough testing of the sensor and its measurement method ([read the white paper](#)). With the SDMS-30, you can enjoy accurate data from a compact, automated, multipoint scanning laser snow depth sensor at a reasonable price.

The ability to quickly and reliably detect the onset of snowfall and snowmelt is a highly sought after feature in a snow depth sensor, and the SDMS-30 does not disappoint. It is one of a few laser sensor

models available in the world that can reliably detect the onset of snowfall and snowmelt, and of all the models available, the SDMS-30 is the most cost-effective.

Campbell Scientific prides itself on the high quality and accuracy of its products. We won't put our stamp of approval on anything that does not meet our expectations or the needs of our clients, and we want to ensure you can trust the quality and accuracy of the SDMS-30 like you would trust any Campbell system. So we field tested the SDMS line of snow sensors over three Canadian winter seasons. It has proven itself to be practical, accurate, and of excellent quality.

Benefits and Features

Naturally performs better due to its multipoint scanning feature

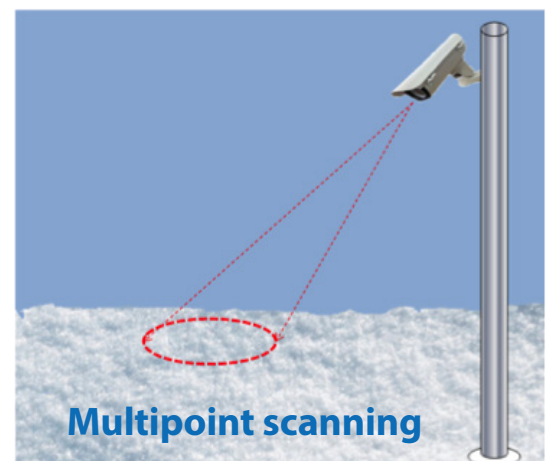
- Multipoint scanning offers more accurate and effective snow depth measurement
- Detects the onset of snowfall or snowmelt quickly and reliably
- Proven performance by field tests over three winter seasons from 2013 to 2015

Compact and light gauge structure

- Allows easy installation on poles, building walls, or any structure
- Can be used as an additional gauge to existing weather stations

Less sensitive to ground conditions

- Filters out noise input caused by obstacles and abnormal situations
- Can operate on natural ground and different types of snow plates



Specifications

Snow Depth Measurement

- › Snow Depth Measurement Method: multipoint laser scanning
- › Number of scanning points: up to 36
- › Ground target available as an option
- › Range: 1-5 meters
- › Resolution: 1 mm
- › Accuracy: ± 3 mm

Electrical

- › Power supply: DC 12-15V, 2.5A
- › Output: RS-232/RS-485/SDI-12

Operational

- › Temperature: $-40 - 50^{\circ}\text{C}$
- › Enclosure protection Class: IP68
- › Laser class II

Mechanical

- › Dimension: 12cm x 28cm x 10cm
- › Sensor weight: approx. 1.8kg

