





Snow Water Equivalent/Snow Depth Sensors

Sensors for snowpack applications



Campbell Scientific offers two types of sensors for snowpack applications: snow water equivalent (SWE) sensors and snow depth sensors. SWE sensors measure the amount of water contained within a snowpack. Snow depth sensors measure the depth of the snowpack.

		Measurement Range	Resolution	Accuracy	Operating Temperature Range
SR50A-L Sonic Distance Sensor Popular		0.5 to 10 m (1.6 to 32.8 ft)	0.25 mm (0.01 in.)	±1 cm (0.4 in.) or 0.4% of distance to target (whichever is greatest). Requires external temperature compensation.	-45° to +50°C
SR50A-EE-L Anodized Sonic Distance Sensor for Extreme Environments Popular		0.5 to 10 m (1.6 to 32.8 ft)	0.25 mm (0.01 in.)	±1 cm (0.4 in.) or 0.4% of distance to target (whichever is greatest). Requires external temperature compensation.	-45° to +50°C
SDMS40 Multipoint Scanning Snowfall Sensor Popular		> 10 m (> 32.8 ft)	1 mm	±3 mm	-40 to +50°C
CS725 Snow Water Equivalent Sensor Popular		600 mm maximum water equivalent	1 mm	<ul style="list-style-type: none"> ➤ ±15 mm (from 0 to 300 mm) ➤ ±15% (from 300 to 600 mm) 	-40° to +40°C

		<i>Measurement Range</i>	<i>Resolution</i>	<i>Accuracy</i>	<i>Operating Temperature Range</i>
SR50AT-L Sonic Distance Sensor with Temperature Sensor		0.5 to 10 m (1.6 to 32.8 ft)	0.25 mm (0.01 in.)	±1 cm (0.4 in.) or 0.4% of distance to target (whichever is greatest).	-45° to +50°C
SR50AH-L Heated Sonic Distance Sensor		0.5 to 10 m (1.6 to 32.8 ft)	0.25 mm (0.01 in.)	±1 cm (0.4 in.) or 0.4% of distance to target (whichever is greatest). Requires external temperature compensation.	-45° to +50°C
SR50ATH-L Sonic Distance Sensor with Heater and Temperature Sensor		0.5 to 10 m (1.6 to 32.8 ft)	0.25 mm (0.01 in.)	±1 cm (0.4 in.) or 0.4% of distance to target (whichever is greatest).	-45° to +50°C

For comprehensive details, visit: www.campbellsci.com/snow 



Campbell Scientific, Inc. | 815 W 1800 N | Logan, UT 84321-1784 | (435) 227-9120 | www.campbellsci.com
 AUSTRALIA | BRAZIL | CANADA | CHINA | COSTA RICA | FRANCE | GERMANY | INDIA | SOUTH AFRICA | SPAIN | THAILAND | UK | USA