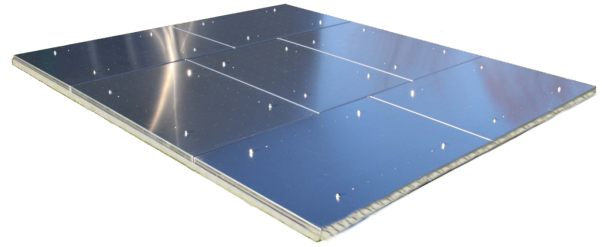


# SSG-2

## Snow scale for SWE determination



The SSG-2 snow scale is a precision device for measuring the snow water equivalent (SWE) of a snow pack. It has been developed for easy installation in the field and is equipped with specially designed aluminium panels which guarantee accurate measurements. These panels form a wide frame around the scale to minimize the effects of ice-bridging. The use of lightweight aluminium reduces thermal resistance, thus improving heat flow through the device. The SSG-2 is equipped with analog and digital ports, which allow integration into weather stations and other monitoring systems.

### Versions

Art	Version
20756	Snow scale SSG-2, 0 ... 1000 kg/m <sup>2</sup>
20757	Snow scale SSG-2, 0 ... 2000 kg/m <sup>2</sup>
20758	Snow scale SSG-2, 0 ... 3000 kg/m <sup>2</sup>

### Scope of delivery

Item
SSG-2 including assembly equipment
Manual on USB stick

### Accessories

Art	Accessory
20488	Commander software V1.0
21150	USB to RS485 isolated converter cable
20613	MAIN sensor cable SSG-2, 10 m
20938	MAIN sensor cable SSG-2, 20 m
20768	Snow scale SSG-2, load cell unit only, 0 ... 1000 kg/m <sup>2</sup>
20769	Snow scale SSG-2, load cell unit only, 0 ... 2000/3000 kg/m <sup>2</sup>
20802	Screw set SSG-2
20862	Ground temperature sensor SSG-2, -40 ... 60°C
17642	Set of Z-profiles for rooftop-mounting
20906	Pole bundle Ø8 x 1000 mm

## Specifications

Physical and environmental	
Power supply	9...28 VDC; Reverse voltage protection, overvoltage protection
Power consumption at 12 VDC	max. 50 mA active <1mA in sleep mode
Outputs	RS-485 SDI-12 Analog output 4...20 mA (14 bit, max. load 200 $\Omega$ ) Digital output (low: 0V, high: V <sub>supply</sub> , max. 30 mA at V <sub>supply</sub> -0.5 V)
Operating temperature	-40...60 °C (-40...140 °F)
Storage temperature	-40...60 °C (-40...140 °F)
Environmental humidity	0...100 %rH
Protection rating	IP 68
Lightning protection	Integrated protection against indirect lightning with a discharge capacity of 6 kA Ppp
Housing material	Aluminium
Size L x W x H	2800 x 2400 x 103 mm (110.24 x 94.49 x 4.06 inch)
Surface area	6.72 m <sup>2</sup>
Weight	110 kg (242.5 lb)
Max. inclination	5°

Snow water equivalent (SWE)	
Measurement range	0 ... 1.000 mm SWE 0 ... 2.000 mm SWE 0 ... 3.000 mm SWE
Accuracy	0...500 mmWC: $\pm 1$ mmWC 500 mmWC ... Full scale: $\pm 0.2$ % of reading

Resolution	0.1 mmWC (0.1 kg/m <sup>2</sup> )
Measurement interval	10 s...3 h
<b>Temperature measurement</b>	
Temperature sensor	Pt1000
Measurement range	-40...60 °C (-40...140 °F)
Accuracy	0.2 °C (0.35 °F)
Resolution	0.01 °C (0.02 °F)

