

# SP Lite2



**SP Lite2** is designed for all-weather measurement of solar radiation. It has a specially shaped Teflon™ diffuser that gives very good directional response and is largely self-cleaning. The detector is a silicon photo-diode, so the spectral response is not as broad or flat as our CMP series pyranometers with thermopile detectors. The standard cable length is 5 m with an option of 15 m.

The mounting flange incorporates a bubble level and 3 adjustment screws for easy levelling. A threaded hole takes the accessory screw-in mounting rod for fitting to masts and poles.

Two SP Lite2 instruments can easily be bolted back-to-back and fitted with the mounting rod to make a simple albedometer.

## Specifications

Response time (95 %)	< 1 s
Non-stability (change/year)	< 2 %
Non-linearity (0 to 1000 W/m²)	< 1 %
Directional error (at 80 ° with 1000 W/m² beam)	< 50 W/m²
Temperature dependence (-30 to +70 °C)	- 0.15 %/°C

## Other specifications

Sensitivity	60 to 100 µV/W/m²
Impedance	50 Ω
Operating temperature	-30 °C to +70 °C
Spectral range (50 % points)	400 to 1100 nm
Typical signal output for atmospheric applications	0 to 100 mV
Maximum irradiance	2000 W/m²
Detector	Silicon photo-diode

Article	Part number
<b>SP Lite2 Silicon Pyranometer • 5 m cable</b>	<b>0339920-001</b>
Options for SP Lite2	
SP Lite2 Silicon Pyranometer • 15 m cable	0339920-003
SP Lite2 Silicon Pyranometer • 10 µV/W/m² • 5 m cable	0339920-021
SP Lite2 Silicon Pyranometer • 10 µV/W/m² • 15 m cable	0339920-023
SP Lite2 Silicon Pyranometer • AMPBOX • 5 m cable	0339920-801
SP Lite2 Silicon Pyranometer • AMPBOX • 15 m cable	0339920-803
<i>Note: AMPBOX is adjusted so that 4 - 20 mA output = 0 - 1600 W/m²</i>	

Accessories for SP Lite2	Part number
<b>Mounting Rod</b> Screw-in 300 mm long x 12 mm Ø	<b>0338720</b>
<b>CMB 1 Mounting Bracket</b> In combination with mounting rod for easy attachment to a pole or a wall	<b>0369701</b>
<b>METEON + SP Lite2 Silicon Pyranometer • 5 m cable</b>	<b>0339920-701</b>

### SP Lite2 Albedometer

**SP Lite2 Silicon Albedometer**

A low-cost Silicon Albedometer can be self-assembled by ordering:  
2x SP Lite2 Silicon Pyranometer + 1x Mounting Rod

*Note: SP Lite2 Albedometer can be used with the AMPBOX but it has two individual outputs, so 2 x AMPBOX are required.*

*Each AMPBOX is adjusted so that 4-20 mA output = 0-1600 W/m²*