



## Kipp & Zonen SP Lite2 Pyranometer

Product #:

0339920

USD Price:

Contact Hach

The SP Lite2 is designed for routine measurement of solar radiation. It is especially designed for Photovoltaic / solar energy module monitoring. The SP Lite2 can be used under all weather conditions. The sensor measures the solar energy received from the entire hemisphere. It is ideal for measuring available energy for use in solar energy applications, plant growth, thermal convection and evapotranspiration. The SP Lite2 uses a photodiode detector, which creates a voltage output that is proportional to the incoming radiation. Also due to the unique design of the diffuser, its sensitivity is proportional to the cosine of the angle of incidence of the incoming radiation, allowing for accurate and consistent measurements. The SP Lite2 is easy to use. It can be directly connected to voltmeter or data logger. Direct readout in Watts per square meter ( $\text{W/m}^2$ ) can be derived from the measured voltage divided by the calibration coefficient. It is fitted with the Kipp & Zonen high quality yellow cable. The SP Lite2 features adjustment screws and a bubble level integrated in the mounting flange for your convenience. A threaded hole in the body of the housing takes our accessory screw-in mounting rod. Two instruments can easily be bolted back-to-back and fitted with a mounting rod to make a simple albedometer.

### ISO / IEC classification

ISO 9060 fast response Class C.

### Minimized maintenance

No desiccant change required, best MTBF with 5 years warranty.

### For routine measurement of solar radiation

SP Lite2 is ideal for measuring available energy for use in solar energy applications, plant growth, thermal convection and evapotranspiration.

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## Specifications

Analog Outputs:	0 - 120 mV
Cable Length:	16, 50 ft (5, 15 m)
Classification:	Fast response Class C (ISO 9060:2018)
Digital Outputs:	N.A.
Directional Response:	# 10 $\text{W/m}^2$ (up to 80 ° with 1000 $\text{W/m}^2$ beam)
Drying Cartridge and Maintenance Interval:	None
IP Rating:	IP67
Irradiance Saturation:	2000 $\text{W/m}^2$ (Max.)
Material Enclosures:	Aluminum, anodised
Non-linearity:	# 3 % (0 - 100 $\text{W/m}^2$ )
Non-stability:	# 2 % (change/year)

Operating Humidity:	0 - 100 %
Operating Temperature Range:	-40 - +176 °F (-40 - +80 °C)
PV Panel Temperature:	-40 - +80 °C
Response Time:	# 500 ns (95 %)
Sensitivity:	N.A.
Spectral Accuracy:	400 - 1100 nm
Temperature Correction:	N.A.
Weight:	0.2 lb (110 g)
Zero offset A:	None
Zero offset B:	None