



This product
complies with CE
directives

S-LIB-M003 Solar Radiation Sensor Smart Sensor

The Solar Radiation Smart Sensor is a light sensor (silicon pyranometer) with a measurement range of 0 to 1280 W/m² over a spectral range of 300 to 1100 nm. This sensor reports the average light intensity over a user-set set logging interval from a minimum of 1 second. Although the azimuth error is only $\pm 2\%$ error at 45° from vertical, a light sensor bracket and light sensor level are recommended.

Measurement parameters: average over logging interval, user-defined sampling interval from 1 second

Measurement range: 0 to 1280 W/m²

Operating Temperature Range: -40° to 75°C (-40° to 167°F)

Accuracy: ± 10 W/m² or $\pm 5\%$, whichever is greater in sunlight. Additional temperature induced error ± 0.38 W/m² /°C from 25°C (0.21 W/m² /°F from 77°F)

Resolution: 1.25 W/m²

Drift: $< \pm 2\%$ per year

Spectral Range: 300 to 1100 nm

Cosine Response Error: $\pm 5\%$, 0° to 70°; $\pm 10\%$, 70° to 80° from vertical

Azimuth Error: $\pm 2\%$ error at 45° from vertical, 360° rotation

Calibration: Factory recalibration available

Housing: anodized aluminum housing with acrylic diffuser and o-ring seal

Dimensions: 4.1 cm high x 3.2 cm diameter (1 5/8 in. x 1 1/4 in.)

Approximate Weight: 120 g (4 oz); **Cable Length:** 3 m (9.8 ft)

Order Information

Part No:

Solar Radiation Sensor Smart Sensor

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