



Kipp & Zonen SMP3 Pyranometer

Product Images



Short Description

The SMP3 is a smart pyranometer with low maintenance and industry standard digital and analogue amplified outputs.

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The SMP3 is a smart pyranometer with low maintenance and industry standard digital and analogue amplified outputs. There is no need for an AMPBOX interface either as the -A version can be configured for: 4 to 20 mA.

Based on the same proven technology as the CMP 3 the SMP3 adds a Modbus® interface, improved response time and temperature corrected measurement data.

The wide and low power supply range from 5 to 30 VDC makes integration in meteorological stations easy. The SMP is protected against over voltage, reversed polarity and short circuiting. Because all SMP' s have identical sensitivity and connections exchanging instruments during recalibration is easy.

PC Software for data logging, display of data and Modbus® address setting is standard provided.

SMP3 measures global solar radiation on a horizontal plane. When tilted with the same angle as a PV panel it measures the tilted global radiation, for PV module efficiency calculations.

PRODUCT SPECIFICATION:

Spectral range 300 to 2800 nm

Response time (63%) < 1.5 s

Response time (95%) < 12 s

Zero offset A < 15 W/m²

Zero offset B < 5 W/m²

Directional error (up to 80 ° with 1000 W/m² beam) 20 W/m²

Temperature dependence of sensitivity (-20 °C to +50 °C) < 3 %

Analogue output (-V version) 0 to 1 V

Analogue output (-A version) 4 to 20 mA

Digital output 2-wire RS-485

Additional Information

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|----------------------|---|
| Brand | Kipp & Zonen |
| Typical applications | Energy, Environmental (Outdoor), Weather Monitoring |
| Measurements | Solar Radiation |