Kipp & Zonen SMP6 Pyranometer

Product #: **0374920**

USD Price: Contact Hach

The SMP6 is a Spectrally Flat Class B pyranometer that combines the sensor technology and housing from the CMP6. The SMP6 has both digital and analogue outputs and is low maintenance, extremely robust and reliable. It also comes with 5 years warranty.

The SMP6 has an internal desiccant that will last for at least 10 years, which minimizes maintenance significantly. The interval for dome cleaning can be extended, and the quality of measurements maximized, by fitting SMP6 with the CVF4 ventilation unit.

The SMP6 has a RS-485 Modbus® RTU interface, amplified analogue output, improved response time and temperature corrected measurement data. The wide and low power supply range from 5 to 30 VDC makes integration in meteorological and solar energy stations easy.

Thanks to standardized output and connections of every SMP6, exchanging instruments for recalibration is easy. SmartExplorer Windows™ software for data logging, display of data and Modbus® address setting is provided as standard.

ISO / IEC classification
ISO 9060 spectrally flat Class B, with ISO / IEC 17025 calibration.

Minimized maintenance
No desiccant change for 10 years, best MTBF with 5 years warranty.

Smart interface
Modbus RTU interface, wide temperature correction range and very low power consumption. Both digital and analog outputs available. No need to adjust data logger after recalibration.

Specifications

Analog Outputs:	0 to 1 V (V-model) or 4 to 20 mA (A-model)
Cable Length:	33, 82, 164, 330 ft (10, 25, 50, 100 m)
Classification:	Spectrally Flat Class B (ISO 9060:2018)
Digital Outputs:	Modbus RTU 2-wire RS-485
Directional Response:	# ±15 W/m² (up to 80° with 1000 W/m² beam)
Drying Cartridge and Maintenance Interval:	Internal, lasts for 10 years, replaced with every recalibration
IP Rating:	IP67

Irradiance Saturation:	2000 W/m² (Max.)
Material Enclosures:	Aluminum, anodized
Non-linearity:	# ±1% (100 to 1000 W/m²)
Non-stability:	# ±1% (change/year)
Operating Humidity:	0 to 100 %
Operating Temperature Range:	-40 to +70 °C
Response Time:	# 1.5 s (63 %), # 12 s (95 %)
Sensitivity:	N.A.
Spectral Accuracy:	285 to 2800 nm
Temperature Correction:	# ±2% (-10 to +40 °C)
Weight:	1.3 lb (600 g)
Zero offset A:	# ±8 W/m²
Zero offset B:	# ±2 W/m²