



Kipp & Zonen CHP1 Pyrheliometer

Product #: 0368900
USD Price: Contact Hach

The CHP1 pyrheliometer is the most commonly used radiometer for the measurement of direct normal irradiance (DNI) and offers high accuracy and reliability.

CHP1 fully complies with the most current ISO and WMO performance criteria for First Class Normal Incidence Pyrheliometer. Every CHP1 is calibrated upon manufacture, and is supplied standard with a WRR (World Radiometric Reference) traceable calibration certificate.

The CHP1 is fitted with a high quality connector for easy installation and maintenance. The screw-in drying cartridge is easy to remove and the replacement desiccant is supplied in convenient refill packets.

As standard CHP1 come with both Pt-100 and 10k thermistor temperature sensors.

The instrument covers the total solar spectrum between 200 to 4000 nm. CHP1 is intended for use with any model Kipp & Zonen two-axis Tracker.

The CHP1 is the perfect choice for high accuracy direct solar radiation measurements.

Excellent temperature dependence

As standard CHP1 comes fitted with both 10 k Ω thermistor and Pt-100 and temperature sensors; so that the small temperature dependency of sensitivity can be corrected in post-processing using the supplied test data.

Excellent range

The instrument has a quartz window to cover the total solar spectrum of solar radiation between 200 to 4000 nm

Excellent long-term stability

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Specifications

Analog Outputs:	0 - 50 mV
Digital Outputs:	n.a.

Field-of-View:	5 ± 0.2 °
Irradiance Saturation:	4000 W/m² (Max.)
Measuring Range:	200 - 4000 nm
Non-linearity:	< 0.2 %
Operating Temperature Range:	-40 - +176 °F (-40 - +80 °C)
Response Time:	< 5s
Sensitivity:	7 to 14 µV/W/m²
Standards:	Class B
Temperature Dependence of Sensitivity:	< 0.5 % (-68 - +122 °F)
Zero offset A:	< 1 W/m²