

SR05-A1

Item : 003119



Main features

- Second class | C Class
- WMO compliant
- Durable
- Easy maintenance

SR15-A1 is a second class pyranometer according to the WMO and ISO 9060:1990 guide classification and a class C sensor. Installed horizontally, it allows for accurate measurement of global radiation to precisely meet the requirements of meteorological services

SR05-A1 is a pyranometer designed to meet the rigorous requirements of global radiation measurement.

Measurement principle

SR05-A1 is an incredible sturdy thermopile pyranometer that uses a series of thermoelectric junctions to provide a signal proportional to the temperature difference between its black absorbing surface and a reference 'cold' area in the sensor body.

Classification

SR05-A1 complies with the "second class" specification of ISO 9060 and "class C".

Easy to install

The height of the pyranometer is adjustable thanks to the pole system provided by PULSONIC on its PULSIA stations. Maintenance is also made easier thanks to its waterproof and pluggable connection system. The cable is protected in the pole.

Automatic

The P4-100 central unit regularly takes radiation measurements, centralizes them and communicates them to the remote server in order to make them available to users and to calculate data such as the duration of insolation according to the WMO pyranometric standard.

This sensor is a reference and will give you many years of satisfaction!

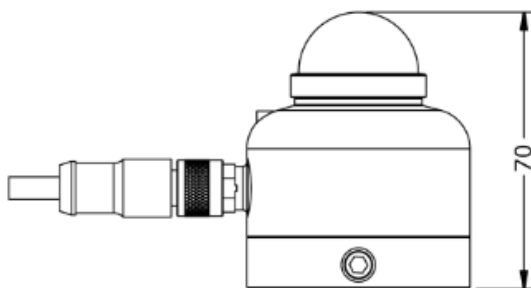
Technical specifications

General

Measure	Solar radiation
Measuring range	0 to 2000 W/m ²
Calibration uncertainty	< 1.8 % (k=2)
Spectral range	285 to 3000 nm
Sensitivity	10 μV/(W/m ²)
Sensitivity range	7 to 30 μV/(W/m ²)
Acquisition angle	180°
Expected output voltage	-0.1 to 50 mV
Response time	18 s
Zero Offset A	< 15W/m ²
Zero Offset B	< ± 4 W/m ²
Electric consumption	None
Operating temperature	-40 to +80°C
Temperature response	< ±3% (-10 to +40°C)
Max. radiation	2000 W/m ²
Cable length	3 m
Weight	0.5 kg
Connector	M12, IP67

Pole for the solar generator box

Length/diameter (tube 1)	760 mm / ø25 mm
Length/diameter (tube 2)	550 mm / ø20 mm
Adjustable amplitude	445 mm
Material	Inox



Maintenance

Recommended calibration Every 2 years

Material

Body anodized aluminum

Generated data*

Global radiation (j/cm²)

Sunshine duration (min or h)

*Data generated by the data logger P4-100

Standard

ISO ISO 9060: 1990 Class 2

Response of the pyranometer according to the solar spectrum

