

Pyranometer *Second Class*



Description

Rugged pyranometer sensor for the measurement of global radiation, the sum of both the direct and diffuse components of solar irradiance.

A thermopile measures the temperature of a horizontal surface exposed to sunlight. Output voltage is linearly dependent on incident solar power.

The sensor meets ISO 9060 Second Class.

Technical Data

Sensor

Sensing element	Thermopile
Output signal	0..2000 W/m ² = approx. 0..25 mV (depending on individual sensitivity)
Spectral response.....	305..2800 nm

Accuracy

Non-linearity.....	0..1000 W/m ² ± 2.5 %
Daily sum	±10 %
Response time	60 s

Power Supply

Supply voltage.....	no supply required
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Casing

Material	Aluminium
Dome	Glass dome
Protection class.....	IP 65
Weight	Approx. 0.5 kg
Mounting.....	Central fixing screw, optional mounting plate, bull-eye level indicator

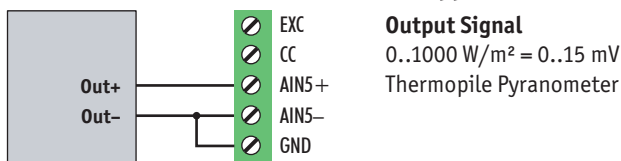
Electrical Connection

Cable 2 x 0.14 mm² , shielded
 Cable length..... 5 m
 Terminals..... wire end sleeves

Wiring

brown..... (+) output
 blue (-) output
 yellow/green Cable screen

Connection to Data Logger blueberry COMPACT



Standard Setup

Input: **AIN5**
 Functions: **GlobalRad (W/m²) = Voltage * 66667**
(replace slope by individual sensitivity from calibration sheet)

Environmental Conditions

Operating temperature..... -40..+70°C
 Relative humidity..... 0..100%

Compliance

The sensor meets „WMO / ISO 9060 Second Class“.

Hammer Steindamm 35
D-22089 Hamburg • Germany
 phone: +49(0)40-75 66 08 98
 fax: +49(0)40-75 66 08 99
 eMail: info@wilmers.com
www.wilmers.com