VSIAS
We know the way!

IRS-MB

Accurate Irradiance

Compatible with dataloggers

Overview

Irradiance sensors manufactured by VSIAS under brand Visionsen, is a irradiance sensor that measures irradiance only. This sensor include silicon cell technology. Meeting all relevant International Electrotechnical Commission **(IEC)** irradiance recommendations.

Application Areas

- Solar Power Plants
- Professional meteorological application
- Environmental measurement technology
- Industrial applications

Specifications

Electrical Specifications

Features	Temperature Compensated
Measurement Range	0 to 1600 W/m²
Resolution	0.1 W/m²
Uncertainty	≤2%
Response Time	0.5 sec
Drift	<0.25%/ year
Field of View	175°
Tilt-Azimuthal Angle	0°- 0°
Supply Voltage	9-28VDC
Temperature Range	-40°C to +85°C
Current Consumption	25 mA @24 VDC
Operating Humidity Range	0 to 100 %
Cell Temperature Sensor Type	RTD
Protocol and Connection Output	Modbus RTU - RS485

Mechanical Specifications

Dimensions	71xØ90mm
Housing	Resistant Aluminum
Top of Cell	High Quality Front Sheet
Protection	IP65

Standarts & Tests & Calibration

Compatible Standard	IEC 61724-1:2021 and IEC 60904
Calibration	Calibrated under Class AAA sun simulator and natural sunlight according to IEC 60904-2 and IEC 60904-4 standarts
Stability Test	Tested under natural sunlight by comparison with reference cells calibrated by independent testing organizations
Cell Strength Test	Tested cell manufacturer under opposite current and reported

Cable and Connection Specifications

White	Power +
Black	Power -
Blue	Data +
Brown	Data -

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Temperature Range	-40°C to +85°C
Current Consumption	25 mA @24 VDC
Operating Humidity Range	0 to 100 %
Cell Temperature Sensor Type	RTD
Protocol and Connection Output	Analog - 4-20mA

Mechanical Specifications

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Housing	Resistant Aluminum
Top of Cell	High Quality Front Sheet
Protection	IP65

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