Product Name : Modbus RTU RS485 Angle Perc-Irradiance Sensor

Product Code : APIRS-MB

Overview

The sensor transmits irradiance values digitally via RS-485 using the Modbus RTU protocol. It can be mounted independently of the panel plane, allowing the cell to be adjusted to the desired angle. The adjustable cell design enables easy installation and mounting.

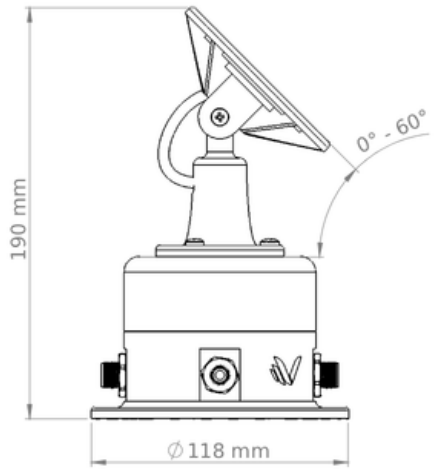


Application Areas

- Solar Power Plants
- Wind Power Plants
- Meteorological Applications
- Agricultural and Greenhouse
- Industrial Applications
- Maritime and Ports
- Forest Regions
- Highway Applications

Electrical Specifications	
Measurement Range	: 0 ~ 1600 W/m²
Operating Temperature	: −35 ~ 80°C
Resolution	: 0.1 W/m²
Uncertainty	: ≤ 2%
Response Time	: 0.5 sn
Drift	: < 0.25% / yıl
Field of View	: 175°
Tilt-Azimuthal Angle	: 0°~ 0°
Moving Head Panel Angle	: 0°- 60° (Single Direction)
Connection Output	: Modbus RTU RS-485
Supply Voltage	: 9-48 V DC
Current Consumption	: 10 mA @24 VDC
Cell Temperature Range	: – 40 ~ +100°C (PT1000 Class 1/10)
Cell Technology	: Monocrystalline PERC Cell

Technical Specifications



Standarts & Tests & Calibration	
Compatible Standard	: IEC 61724-1:2021 and IEC 60904
Calibration	: Calibrated under Class AAA solar simulator and natural sunlight in accordance with IEC 60904-2 and IEC 60904-4 standards.
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		
Cable Length	: 3 m	
Connector Type	: IP 67	
White	: 9- 48 V DC (+)	○
Brown	: GND (-)	●
Yellow	: Data (+)	●
Green	: Data (-)	●

Mechanical Specifications	
Dimensions	: Ø118 x 190 mm
Housing	: Aluminum, Plastic
Protection	: IP 65

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