Product Name : Modbus RTU RS485 Albedometer Sensor

Product Code : ALB-MB

Overview

In bifacial solar panel systems, the amount of direct sunlight is measured on the upper surface, while the amount of reflected sunlight is measured on the lower surface. This results in the most accurate measurements for bifacial panels, allowing energy production data to be monitored in W/m².



Application Areas

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

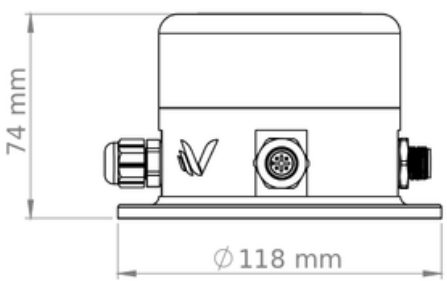
Electrical Specifications	
Measurement Range	: 0 ~ 1600 W/m²
Operating Temperature	: −35 ~ 80°C
Albedo Range	: 0-1
Uncertainty	: ≤ 2%
Response Time	: 0.5 sn
Drift	: < 0.25% / year
Tilt-Azimuthal Angle	: 0°~ 0°
Connection Output	: Modbus RTU Rs-485
Supply Voltage	: 9-48 V DC
Current Consumption	: 10 mA @24 VDC
Cell Temperature Range	: −40...+100°C (PT1000 Class 1/10)
Cell Technology	: Monocrystalline PERC Cell

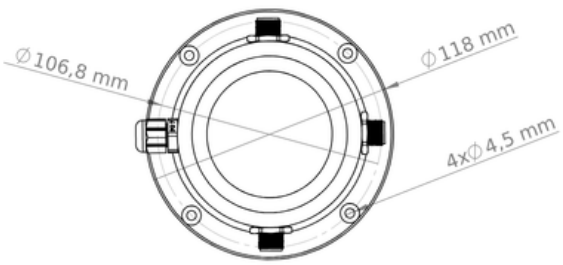
Mechanical Specifications	
Dimensions	: Ø118 x 74 mm
Housing	: Aluminum, Plastic
Protection	: IP 65

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 (-)	●

Technical Specifications





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