

RK200-01 Solar Shortwave Radiation Sensor

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The RK200-01 Solar Shortwave Radiation Sensor is mainly used for measuring solar radiation within 400-1100nm wavelength. It is easy installation and can work continuously in all weathers. It can be installed vertically, horizontally, reversely, obliquely and so on. Voltage output proportional to incident light intensity is generated by the Si photodetector in the sensor. To reduce the cosine error, a cosine corrector has been built in the sensor. This radiation sensor can be connected to digital voltmeter or signal collecting device directly. It is widely used to monitor the solar energy in plant growth, solar heat conversion, evapotranspiration (ET) and etc..

FEATURES

- Confirm to CIMO Guide
- Harsh environment workable
- High sensitivity
- No power supply measurement
- Compact size for easy use

SPECIFICATIONS

Item	SPECIFICATIONS
Spectral range	400~1100nm
Range	0-2000W/m2
Output	0~200mv,4-20mA
Sensitivity	50~800 μ v*w ⁻¹ *m ²
Response time	< 1s
Cosine correction	<10% (until 80°)
Non-linear	≤±3%
Stability	≤±3%/year
Operating Temperature	-40℃-+65℃
Ingress Protection	IP65
Weight(unpacked)	115g
Dimension	Ø50*30mm
Shell material	Aluminum alloy
Storage Condition	10℃-60℃@20%-90%RH

OUT PUT CHARACTERISTICS

1 mv :Radiation (W/m²) = Voltage output value (μv) /sensitivity coefficient (μv*w⁻¹*m²) 3

Current(4-20mA): Radiation (W/m²) =(I-4)/(20-4)*2000

The sensitivity is mentioned on the product's label.

MOUNTING

Keep product horizontal by adjusting three screws on product.

ELECTRICAL CONNECTIONS

Cable	Current	Cable	mV
Red	V+	White	mv+
Yellow	Signal	Black	mv-
Black	V-		

CE Complies with applicable CE directives.

Manual subject to change without notice. Version 1.0

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