

RK200-04 Solar Radiation Sensor is designed on basis of optical principle. It is mainly used for measuring solar radiation within 300-3000nm wavelength. If the sensing face is downwards, it can test the reflected radiation and solar radiation on the incident to the inclined plane. If shad is added, it can test the scattered radiation. It is widely used to monitor the solar radiation in meteorology, solar energy, agriculture, construction materials aging and atmospheric pollution and etc..

FEATURES

- Designed on optical principle
- No moving parts, no maintenance, can work in any altitude
- High sensitivity
- Low power consumption
- Light weight, long service life
- Used as sunshine duration sensor



APPLICATIONS

- Meteorology
- Agriculture
- Construction materials aging monitoring
- Air pollution monitoring
- Solar energy

SPECIFICATIONS

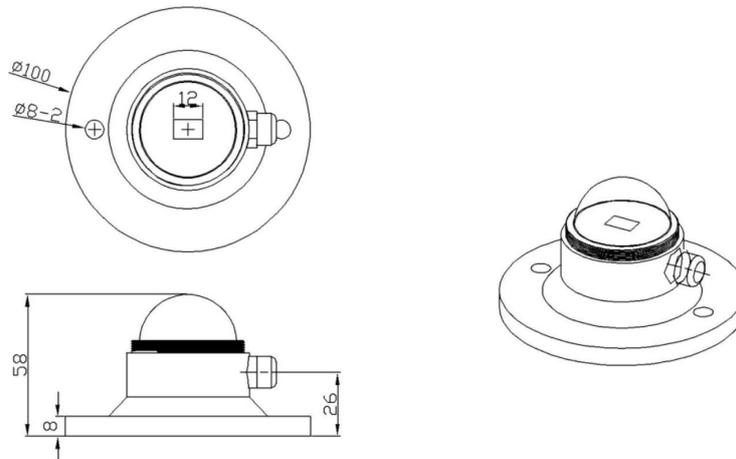
Item	SPECIFICATIONS
Spectral range	300~3000nm
Supply	5V,12-24VDC
Range	0-1500W/m ²
Output	0-5V,4-20mA,RS485
Response time	≤5s
Cosine correction	≤±10%(Solar elevation angle=10°)
Non-linear	≤±3%
Temperature effect	±0.08%/°C
Stability	≤±2%/year
Operating Temperature	-40°C-+80°C
Ingress Protection	IP65
Weight(unpacked)	420g
Shell material	Aluminum alloy or ABS optional
Storage Condition	10°C-60°C@20%-90%RH

- The product can be used as a sunshine time sensor

Sunshine hours is the sum of time periods that the sun direct irradiance intensity to reach or exceed 120W/m² time , hour as a unit, a decimal. Sunshine hours is also known as actual irradiance time.

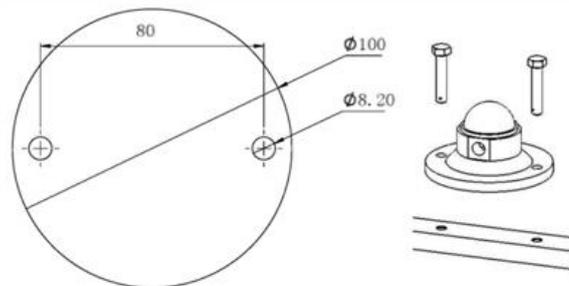
DIMENSION

Unit:mm



MOUNTING

In order to the accuracy of the measurement, please ensure that the sensor mounted horizontally as much as possible.



PARAMETER SELECTION TABLE

Remark	Series	Type	Shell material	Output	Cable Length	
RK						
	200					
		04				
			M			Metal(Aluminum alloy)
			A			ABS
				A		4-20mA
				B		0-5V
				C		
				D		RS485(external module)
				E		Other(customized)
					2500	Units:mm (typ)
					3000	Units:mm
					...	Units:mm

Example: RK200-04MA2500 Shell material: Aluminum alloy, Output:4-20mA,Cable Length:2.5m.

 Complies with applicable CE directives.

Specifications subject to change without notice. Version 1.0
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