

Meteorology

Solar Radiation



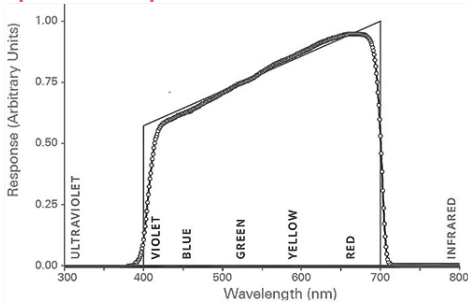
SX2596, SOLAR RADIATION SENSOR SOLAR IRRADIANCE SENSOR

The SX2596 Solar Radiation Sensor is designed on basis of silicon-cell principle. It is mainly used for measuring solar radiation within 300–1100nm wavelength. If the sensing face is downwards, it can test the reflected radiation and solar radiation on the incident to the inclined plane. If shade 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..

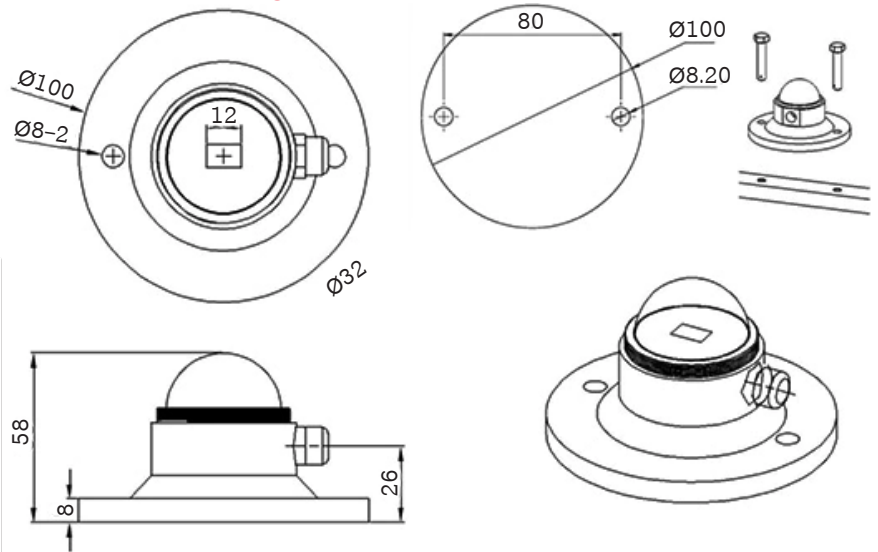
Applications:

- ▶ Agriculture
- ▶ Factory
- ▶ Farm
- ▶ Forestry
- ▶ PV power
- ▶ PV station
- ▶ Scoolyard weather station
- ▶ Solar radiation monitoring station.

Spectral Response:



Dimensions & Mounting (mm):



MODEL	SX2596
Spectral range	300 ~ 1100nm
Supply	5V,12-24VDC
Range	0-1500W/m2
Resolution	1W/m2
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
Storage Condition	10°C - 60°C@20%-90%RH