

Solar Radiation Sensor

Model: Renke RS-RA-N01



Description:

- This solar radiation sensor or pyranometer is an instrument for measuring solar radiation. It measures the solar energy received from the entire hemisphere (180° field of view). Solar radiation varies significantly among regions. Season and time of day are major considerations, but surrounding terrain elevation, man-made obstructions, and surrounding trees can also cause large variations in locations with a small area.

- RS-RA-N01 solar radiation sensor adopts photoelectric principle and can be used to measure the total radiation value under sunlight. The radiation sensor uses high-precision photosensitive elements, wide spectrum absorption, high absorption in the full spectrum range, and good stability. A dust cover with a light transmittance of up to 95% is installed outside the sensing element, and the dust cover is specially treated to reduce dust Adsorption can effectively prevent environmental factors from interfering with internal components, and can more accurately measure solar radiation.

Features:

- Using high-precision photosensitive elements, high absorption in the full spectrum range.
- Comes with level meter and adjustment handwheel, convenient on-site adjustment.
- High transparent dust cover, good sensitivity, special surface treatment to prevent dust adsorption.
- Wide voltage power supply DC 7~30V.

Specifications:

- Power Supply: 7V~30V DC
- Working Environment: -25°C~60°C, 0%~100%RH
- Spectral Range: sunshine
- Measuring Range: 0~1800W/m²
- Resolution: 1W/m²
- Response Time: ≤20S
- Non-linear: <±3%
- Annual Stability: ≤±3%
- Wire Length: 60cm can be customized
- Output Signal: rs485/0-5v/0-10v/4-20ma

Use - Solar Radiation Meter

Solar radiation meter installation

1. Use screws to pass through the mounting holes on the sensor to fix the sensor on the mounting position 2. Make sure the equipment is parallel to the ground (adjustable thumb screw and check the state of the horizontal bubble to determine whether it is parallel) 3. After the installation is complete, remove the protective cover



Solar radiation meter maintenance

1. The dust cover needs to be kept clean and clean, often wipe it with a soft cloth 2. There should be no water in the dust cover. If it encounters heavy rain, snow, ice, and other long-term weather, it is recommended to cover it.



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