

RK200-07 Ultraviolet(UV) Radiation Sensor

RK200-07 UV Radiation Sensor is a precision instrument used to measure the atmosphere of the sun's ultraviolet radiation (UVA & UVB), supporting the product related information acquisition instrument use can provide public concern: the UV index, UV erythema measurement, on the health effects of the UV and UV special biology and chemistry, highly meteorology, industry, construction, medical attention, are widely used in the exposure caused erythema dose, integrated environment ecological effect, the study of climate change and ultraviolet radiation monitoring and forecast.

FEATURES

- Light weight
- No moving parts, no maintenance, can work in any altitude
- High sensitivity
- Low power consumption
- Long service life



APPLICATIONS

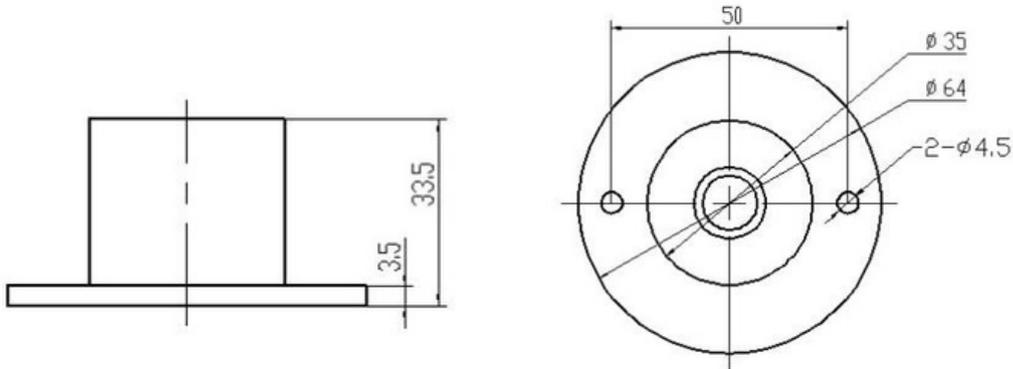
- Tourism weather
- Breeding industry
- Construction materials aging monitoring
- Medical research
- Environmental monitoring

SPECIFICATIONS

| Item | SPECIFICATIONS |
|-----------------------|--|
| Spectral range | 280~400nm |
| Supply Range | 5V,12-24VDC |
| Output | 0-200W/m2, 0-200uW/cm2(only for 0-2V output), 0-15UV index |
| Accuracy | 0-2V,4-20mA(2wires),0-5V,RS485 |
| Response time | ±5% rdg |
| Cosine correction | ≤1s |
| Non-linear | ≤±4%(Solar elevation angle=30°) |
| Temperature effect | ≤±3% |
| Stability | ±0.08%/°C |
| Operating Temperature | ≤±2%/year |
| Ingress Protection | -40°C~+85°C |
| Weight(unpacked) | IP65 |
| Shell material | 150g |
| Storage | Aluminum alloy |
| Condition | 10°C-60°C@20%-90%RH |

DIMENSION

Unit: m m



PARAMETER SELECTION TABLE

| Remark | Series | Type | Supply | Range | Output | Cable Length | |
|--------|--------|------|--------|-------|--------|--------------|--------------------------|
| RK | | | | | | | |
| | 200 | | | | | | |
| | | 07 | | | | | |
| | | | A | | | | 5V |
| | | | B | | | | 12-24V |
| | | | X | | | | Other |
| | | | | A | | | 0-200W /m2(280-400nm) |
| | | | | B | | | 0-200uW /cm2 (280-400nm) |
| | | | | C | | | 0-15UV index (280-400nm) |
| | | | | | A | | 4-20mA |
| | | | | | B | | 0-2V |
| | | | | | C | | 0-5V |
| | | | | | D | | RS485 |
| | | | | | X | | Other |
| | | | | | | 1500 | Units:mm (typ) |
| | | | | | | 3000 | Units:mm |
| | | | | | | ... | Units:mm |

Example: RK200-07BAA1500: Supply:12-24V, Range:0-200W/m2(280-400nm), Output:4-20mA,Cable Length:1.5m.

 Complies with applicable CE directives.

Specifications subject to change without notice. Version 3.0
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