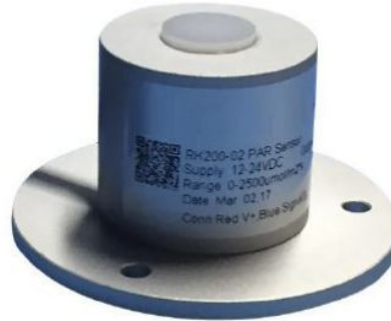# PAR Radiation Sensor

DIG-PAR1-P

Description

Mainly used for measuring solar radiation within the 400~700nm wavelength. Easy installation and can work continuously in all weathers. In sunlight, voltage output proportional to the incident light intensity will be generated by the silicon-photo detector in the sensor. Its sensitivity is proportional to the cosine of the incident light direct angle. Each product has one sensitivity coefficient respectively. It can directly output radiation values in units of $\mu mol*m-2*s-1$.

Notable features are:

- Metal construction
- Harsh environment workable
- High sensitivity
- High accuracy
- Compact size for easy use

WARRANTY

This product is warranted to be free from defects in materials and construction for a period of 12 months from the date of delivery. The supplier's liability is limited to the repair or replacement of the defective item.

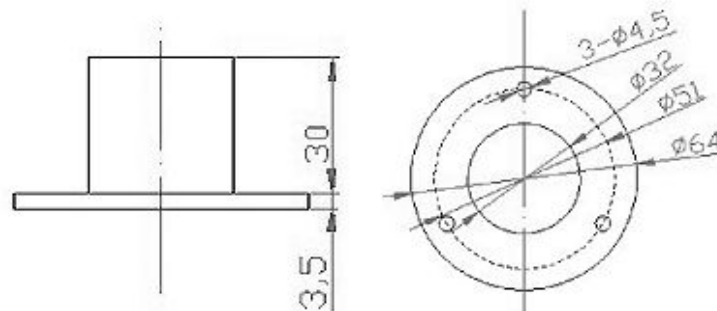**Note:** This product has been tested and meets the European CE requirements for the EMC directive.

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Technical Specifications

Measured Variable	Range
Spectral range	400～700nm
Supply	Mark on the label
Accuracy	±5% rdg
Range	0-2500 µmol*m-2*s-1
Output	MODBUS RTU, RS485
Response time	＜1s（99%）
Temperature effect	＜0.05%/℃
Cosine correction	＜10%（until 80°）
Non-linearity	<±2%
Operating temperature	-40-+80℃
Shell material	Aluminum alloy
Storage Condition	10℃-60℃@20%-90%RH

Electrical Connections

Cable	RS485
Red	V+
Yellow	RS485A
Black/Green	V-
Blue	RS485B

Dimensions

All units in mm.