

Quantum Sensor

PAR-02D



PAR-02D

General

PAR-02D is a low cost quantum sensor, best for the observation of Agricultural Meteorology. It measures the quantity of photon within the solar spectrum range of 400 to 700nm, which affects the photosynthesis of the plants. Detector part has high spectral sensitivity characteristics due to the combination of the silicon sensor and optical filter. Diffuser, used for PAR-02D captures the light accurately.

Specification

Wavelength range	: 400 to 700nm
Detector type	: Silicon Photodiode
Detecting method	: Diffuser
Sensitivity	: 0 to 3,000 $\mu\text{Mol}\cdot\text{s}^{-1}\cdot\text{m}^{-2}$ /0 to 10mV
Azimuth error	: <5% (<60deg)
Glass dome material	: BK7
Cable	: 5m
Operating Temperature	: -30 to +70 degC
Weight	: PAR-02D Approx. 50g (Cable : 150g)
Ingress Protection	: Identical to IP67
Body material	: Aluminum
Dimension	: dia 32 x 23mm (PAR-02D)
Calibration	: 1000W standard light source
Option	: Base with water bubble level.



With Base (Option)



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