

PAR SENSOR WITH APOGEE QUANTUM METER



aranet

- ① measures photosynthetically active radiation
- ② IP68 casing
- ③ 10 year battery life
- ④ data transmission every 1, 2, 5, 10 minutes



allows measuring of photosynthetic active radiation. it helps determine the amount of light the plants are exposed to.

PAR Sensor with Apogee quantum meter

Measurements	Photosynthetically Active Radiation (PAR)
Line of Sight Range	3km / 1.9mi
Operating environment	Indoor and Outdoor use
Transmitter power	14 dBm
Frequency	Depends on base station instructions
Measurement repeatability	Less than 0.5%
Long-term Drift	Typically, less than 1% per year with a 2% maximum
Non-linearity	Less than 1% (up to 4000 $\mu\text{mol m}^{-2} \text{s}^{-1}$)
Field of View	180°
Spectral Range	389 to 692 \pm 5 nm
Directional (Cosine) response	\pm 5 % at 75° zenith angle
Data Transmission	1, 2, 5, 10 minutes
Data Protection	Data encryption
Power options	1 AA Alkaline batteries (Zn/MnO ₂) 1 AA Lithium batteries (Li/FeS ₂)
Battery life @20°C / 68°F	Up to 7 years with Alkaline batteries Up to 10 years with Lithium batteries
Operating temperature	-20°C to 55°C / -4°F to 131°F with Alkaline batteries -40°C to 60°C / -40°F to 140°F with Lithium batteries
Operating humidity	0% to 100% PAR meter can be submerged in water up to depths of 30m (98.4ft)
Dimensions	Sensor body - 35mm \varnothing x 120mm (1.4" \varnothing x 4.7") PAR meter - 24mm \varnothing x 37mm height (0.9" \varnothing x 1.5") PAR meter bracket - 83.8 mm x 62.1 mm (3.3 " x 2.4")
Weight	580g (20.5oz) w Alkaline battery and PAR meter bracket 572g (20.2oz) w Lithium battery and PAR meter bracket
Construction	Sensor body - ASA Plastic PAR meter - Anodized aluminum body with acrylic diffuser
Protection class	IP68
Marking	CE, FCC
Compatible base stations	Aranet PRO (from sw v1.4)
Included	1 AA Alkaline battery
Cable length	0.2m (0.65ft)