

# PAR SENSOR



aranet

- ① measures photosynthetically active radiation
- ② IP68 casing
- ③ up to 7 years of battery life
- ④ data transmission every 1, 2, 5, 10 minutes

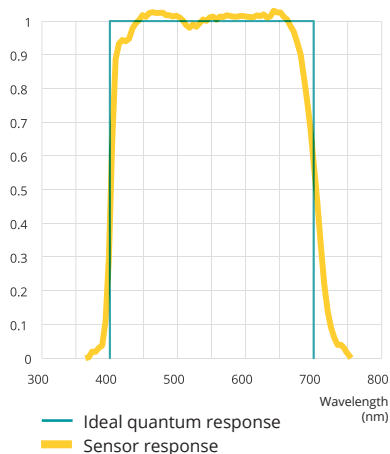


allows measuring of photosynthetically active radiation. it helps determine the amount of light the plants are exposed to.

## Aranet PAR Sensor

Measurements	PPFD (Photosynthetic Photon Flux Density)
Line of Sight Range	3km / 1.9mi
Operating environment	Indoor and Outdoor use
Transmitter power	14 dBm
Frequency	Depends on base station instructions
Measurement range	0-4000 $\mu\text{mol/s/m}^2$
Measurement resolution	1 $\mu\text{mol/s/m}^2$
Measurement accuracy	+/- 10%
Cosine error	<2% @ 45°, <5% @ 75°
Data Transmission	1, 2, 5, 10 minutes
Data Protection	Data encryption
Power options	1 AA Alkaline batteries (Zn/MnO <sub>2</sub> ) 1 AA Lithium batteries (Li/FeS <sub>2</sub> )
Battery life @20°C / 68°F	Up to 5 years with Alkaline batteries Up to 7 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%
Dimensions	Sensor body - 35mmØ x 117mm
Weight	80g w Alkaline battery 72g w Lithium battery
Construction	ASA Plastic + Aluminium
Protection class	IP68
Marking	CE
Compatible base stations	Aranet PRO
Included	1 AA Alkaline battery
Part number	TDSPAR01 (EU), TDSPARR1 (RU)

Typical quantum response



Typical cosine response

