

Aranet PAR sensor



- 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

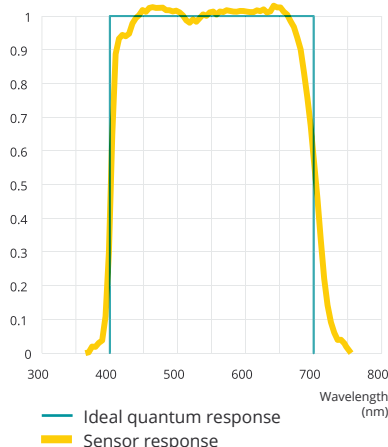


Allows measuring of photosynthetically active radiation. It helps determine the amount of light the plants are exposed to.

Aranet PAR sensor datasheet

Measurements	PPFD (Photosynthetic Photon Flux Density)
Line of Sight Range	3 km / 1.9 mi
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 ₂) 1 AA Lithium batteries (Li/FeS ₂)
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 - 35 mmØ x 117mm
Weight	80 g w Alkaline battery 72 g w Lithium battery
Construction	ASA Plastic + Aluminium
Protection class	IP68
Marking	CE, FCC
Compatible base stations	Aranet PRO
Included	1 AA Alkaline battery
Part number	TDSKAR02 (EU868), TDSKARU2 (US920, AS923), TDSKARR2 (RU869)

Typical quantum response



Typical cosine response

