

## Aranet PAR sensor datasheet

Measurements	PPFD (Photosynthetic Photon Flux Density)
Line of Sight Range	3 km / <a href="#">1.9 mi</a>
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 / <a href="#">68 °F</a>	Up to 5 years with Alkaline batteries Up to 7 years with Lithium batteries
Operating temperature	-20 °C to 55 °C / <a href="#">-4 °F to 131 °F</a> with Alkaline batteries -40 °C to 60 °C / <a href="#">-40 °F to 140 °F</a> 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)