



ECO PAR



Satlantic and WET Labs have partnered again to develop the ECO-PAR™ sensor, which provides highly accurate measurements of PAR (400–700 nm) in all aquatic environments.

Equipped with quality precision optics and proven Bio-wiper™ technology, the ECO PAR™ sensor can be deployed for extended periods without a reduction in data quality caused by biofouling. Additionally, the ECO PAR™ has optional internal data logging and power capabilities, precluding the need for an external logging device and battery pack.



Research applications

- Long-term monitoring on moorings and buoys
- Water quality studies
- Phytoplankton physiology and photosynthesis studies
- Aquatic productivity studies

Specifications

Mechanical		Electrical	
<i>Diameter</i>	6.3 cm	<i>Digital output resolution</i>	14 bit
<i>Length</i>	12.7 cm	<i>RS-232 output</i>	19200 baud
<i>Weight in air</i>	0.4 kg	<i>Analog output signal</i>	0–5 V
<i>Weight in water</i>	0.02 kg	<i>Internal data logging</i>	optional
<i>Pressure housing</i>	Acetal copolymer	<i>Internal batteries</i>	optional
<i>Temperature range</i>	0–30 deg C	<i>Connector</i>	MCBH-6-MP
<i>Depth rating</i>	200 m	<i>Bio-wiper™ cycle</i>	140 mA
<hr/>		<i>Input</i>	7–15 VDC
Optical		<i>Current, typical</i>	80 mA
<i>Collector area</i>	86 mm ²	<i>Current, sleep</i>	85 μA
<i>Detectors</i>	17 mm ² silicon photodiode	<i>Data memory</i>	90,000 samples
<i>Field of view</i>	Cosine response (within 3% @ 0–60 deg C)	<i>Sample rate</i>	to 8 Hz
<i>Range</i>	0–6500 μmol photons•m ⁻² •s ⁻¹	<hr/>	

Specifications are subject to change without notice.