

ECO PAR

Photosynthetically Active Radiation Sensor

Satlantic and WET Labs have partnered 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 BiowiperTM technology, the ECO-PARTM sensor can be deployed for extended periods without a reduction in data quality caused by biofouling. Additionally, the ECO-PARTM has optional internal data logging and power capabilities, precluding the need for an external logging device and battery pack.



Features

- Compact size
- Integrated self-logging
- Configurable output
- High precision and stability
- Optional integrated anti-fouling

Applications

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

Optical

Calibrated range:	0 – 5000 μmol photons m ⁻² s ⁻¹
Calibration accuracy:	± 5% NIST Traceable (in air)
Bandpass:	400 –700 nm
Cosine Collector:	0 - 60° 3%; 60 – 85° 10%

Electrical

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Digital output resolution	14 bit	
Internal data logging	Optional	
Internal batteries	Optional	
Connector	МСВН6М	
Input	7–15 VDC	
Current, typical	80 mA	
Current, sleep	85 μΑ	
Data memory	90,000 samples	
Sample rate	User selectable to 8 Hz	
RS-232 output	19200 baud	
Analog output signal	0-5 v	
Anti-fouling Bio-wiper™	Optional	
Bio-wiper™ cycle	140 mA	

Mechanical

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	s	s	SB	
Diameter	6.30 cm			
Length	13.3 cm 28.0 cm			
Depth Rating	300 m			
Temp Range	0 - 30 ℃			
Weight in air / water	0.594 kg 0.173 kg	1.062 kg 0.136 kg	1.062 kg 0.136 kg	
Materials	Acetal copolymer			

S = Shutter, B = Battery, SB = Shutter, Battery

