

miniPAR Logger

Reliably measure PAR, water temperature and logger orientation.

The miniPAR Logger is a fully submersible logger designed to measure diffused sunlight through water, or PAR (Photosynthetically Active Radiation) in fresh and saltwater environments. In addition to a temperature sensor, each miniPAR is equipped with a tilt sensor that confirms the logger is correctly positioned for accurate data collection. All data is recorded to the logger's internal SD card.

- Fully submersible up to 100 meters
- Durable, corrosion-resistant metal housing
- Cosine corrected PAR sensor

The miniPAR Logger's design supports data accuracy over long-term, continuous deployment. It is powered by two standard AA lithium batteries to facilitate easy in-field replacement.

SUPPORTED MEASUREMENTS

PAR (LI-COR), Temperature

SPECIFICATIONS: MINIPAR LOGGER, PART NUMBER 7530

Sensor Type	PAR (LI-COR), Temperature
Sensor	LI-192 (LI-COR)
Measurement Range	0-3000 $\mu\text{mol s}^{-1} \text{m}^{-2}$
Accuracy	$\pm 5\%$ in air traceable to NIST
Sensitivity	Typically 4 μA per 1,000 $\mu\text{mol s}^{-1} \text{m}^{-2}$ in water
Response Time	10 μs
Stability/Drift	$< \pm 2\%$
Operating Temperature Range	0 to 35 degrees C
Sampling Power Capacity	>50,000 samples over 12 months @ 10 minute sample interval
Memory	Unlimited
Logging Interval	5 seconds to 24 hours
Battery	Two lithium AA batteries and backup coin-cell battery
Software Included	Data visualization and control
Weight	1.1 lbs
Dimensions	1.95 inches diameter x 8.5 inches length
Maximum Depth	100 meters (328 feet)
Temperature Accuracy	0.2 degrees C
Temperature Range	0 to 35 degrees C

WIPER for miniPAR Logger

The anti-fouling WIPER is a self-contained, completely submersible wiping device compatible with the miniPAR Logger. Its brushing wheel rotates over the sensor surface, reducing the growth of various organisms and preventing biofouling. After each rotation the brush rests away from the sensor to avoid any monitoring interference, allowing for accurate and continuous monitoring.

