



# Odyssey® Xtream Photosynthetic Active Radiation Logger Datasheet

The Photosynthetically Active Radiation (PAR) logger is a true integrating light logger for use in air or underwater for photosynthesis recordings. The PAR reading is stored in the internal non-volatile memory along with the ambient temperature (measured inside the logger) and a timestamp. When in range, the logger wirelessly communicates to the Odyssey® Xtract software application ( download free from Play Store or App Store ) on your android phone or tablet and stores the readings on your device. When the Xtract application detects a network connection, it sends the data to the cloud database servers. Use any standard internet browser, connect to our Odyssey® Xpert Web portal to analyse your data.



## Features

- 400 to 700nm response
- Cosine response
- Low Cost
- Wireless
- Fully submersible to 30m
- Internal Ambient Temperature reading.
- Variable Integration period
- Continuous ring buffer storage

**Specification:** ( typical conditions, Battery Voltage 3V, Temperature 22°C )

|   |  |
|---|--|
| Temperature Accuracy  | ±0.5°C typical ( ±2.0°C max)   |
| Temperature Resolution  | 0.0625°C   |
| Calculated Battery Life – (Extended / Standard)<br>– (Industrial) | 2 +Years. Based on 15min recording interval<br>5+ Years ( Dependent on average temperature ) |
| Memory Capacity   | 60,000 Including ambient temperature   |
| Wavelength  | 400 - 700nm<br>Cosine response photosynthetic irradiance sensor                              |
| Water Proof   | IP68 Submersible to 30m ( Tested to 50m )  |
| Dimensions  | 46mm Diameter, 160mm Length  |
| Operating Temperature – (Standard)<br>– (Extended / Industrial)   | -20 to 55°C ( Standard battery with reduced life below 0°C )<br>-20 to 60°C / -30 to 85°C    |
| Wireless Communications   | <b>Bluetooth®</b> LE   |
| Supported Phone/Tablet  | <b>Android™</b> V8.0 or greater.<br><b>Apple IOS®</b> V9.3.6 or greater.                     |
| Battery ( standard ) ( 2 per logger )                             | Alkaline AA 1.5V ( Energizer Max® E91 )  |
| Approvals   | FCC, CE, RCM, ISED, MIC, KC, NCC, SRRC, WPC  |