



# OceanTools

## PowerLOG

### Subsea battery pack and datalogger

The **OceanTools PowerLOG** is an integrated subsea battery pack and serial datalogger with up to eight serial channels, designed to support a wide range of underwater sensors.



PowerLOG-25

## Overview

The **PowerLOG** contains individually *UN 38.3 Approved* lithium-ion polymer battery packs to offer a combined capacity of up to nearly 38Ah, sufficient to power several connected devices for extended periods. Integral electronics allow remote monitoring of the battery status including on-load voltage and temperature readings.

The high capacity datalogger can record up to eight channels of RS232 or RS485 serial data at baud rates up to 460800 from a range of underwater devices including pressure sensors, temperature sensors, flow meters, etc. Monitoring of up to four analogue voltage input signals is also supported.

A Real Time Clock with battery backup allows logged data to be timestamped, with total recording capacity limited only by the installed Micro SD card. Data extraction is performed via a serial port (or via an optional Ethernet or Bluetooth interface) without opening the pressure housing.

The internal datalogger control electronics may be programmed to offer additional functionality, such as outputting live data from any of the channels being logged to an **OceanDISP** subsea display unit.

The anodised aluminium housing has a 4000m depth rating, with separate connectors for each input, an auxiliary display output, and another connector for battery recharge and power switching.



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## Specifications

	PowerLOG-25	PowerLOG-38
<b>Battery type</b>	Lithium-Ion Polymer	
<b>Nominal voltage</b>	25.9VDC	
<b>Nominal capacity</b>	25.2Ah	37.8Ah
<b>Serial inputs</b>	Up to 8 x RS232 or RS485	
<b>Analogue inputs</b>	4 x Unipolar 0-10V	
<b>Datalogger capacity</b>	Micro SD up to 1TB	
<b>Connectors</b>	10 x Glenair 5507-1508	
<b>Length (excl connectors)</b>	358mm	360mm
<b>Diameter</b>	210mm	255mm
<b>Weight in air</b>	23kg	33kg
<b>Weight in water</b>	20kg	29kg
<b>Operating temperature</b>	0°C to +45°C	
<b>Depth rating</b>	4000m	

## Related Products

An **OceanDISP-7K** deep ocean display unit accepts serial data from a wide range of subsea devices or a datalogger output, to be shown on a high visibility LED matrix display.

A **SmartSWITCH** programmable pressure switch can prolong the life of subsea battery packs by supplying power to devices only when the required operating depth is reached.



OceanDISP-7K

Product datasheets, GA drawings, case studies and other supporting documents are available to download from [data.oceantools.co.uk](http://data.oceantools.co.uk)

All specifications are subject to change without notice. E&OE.

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