

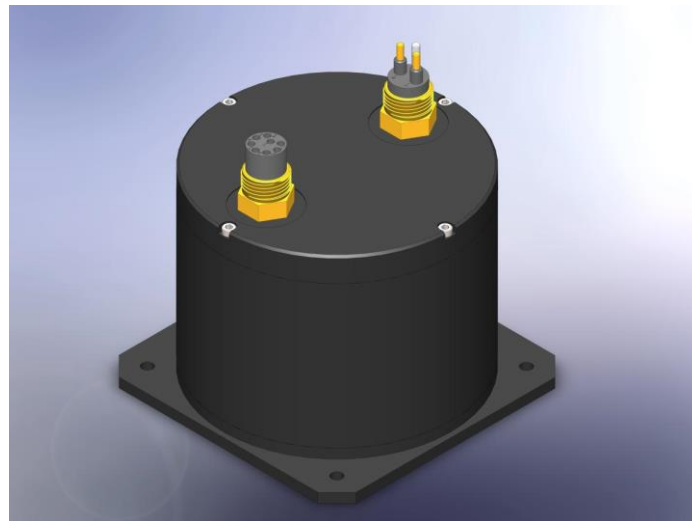


OceanTools

OceanLOG

Subsea serial datalogger

The **OceanTools OceanLOG** is a *compact* and *low power* subsea datalogger with two serial channels, designed to support a wide range of underwater sensors.



## Overview

The **OceanLOG** datalogger can record two channels of RS232 serial data at up to 115200 baud, supporting freerunning ASCII serial strings. A timestamp to millisecond resolution is applied to each line of data.

The datalogger has a **256MB** recording capacity as standard, which is sufficient for:

- Over 120 hours of **OceanFOG** gyrocompass (angles, rates, accelerations and status) at 4Hz
- Up to 2 months continuous **OceanTILT** inclinometer (pitch and roll) at 2Hz

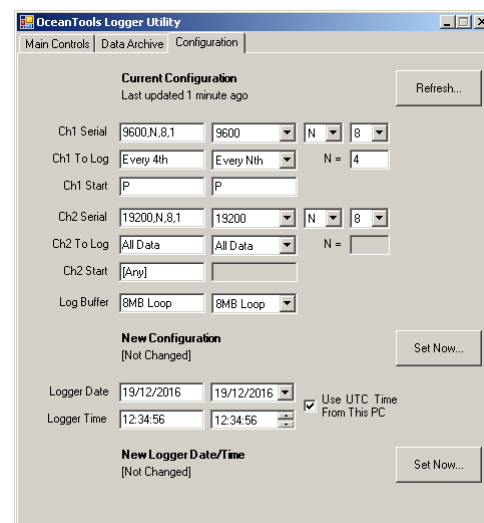
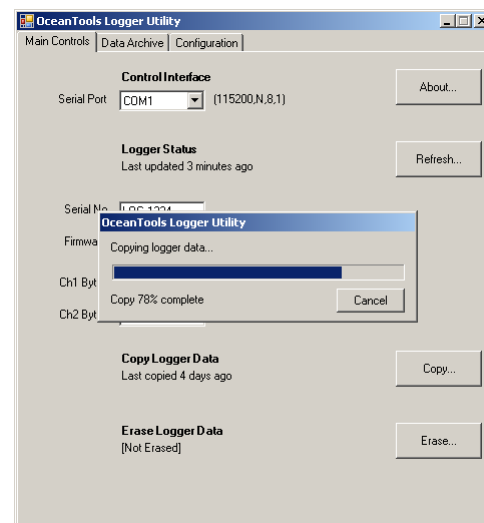
Logged data extraction is via a serial port, without breaking the pressure housing seal. Extracted data can either be saved verbatim, or in a CSV format where each line is prefixed by a timestamp.

Selective logging is available to significantly reduce the quantity of data to be logged, extracted and processed. For example, output from a **C-Temp** temperature probe logged once per minute over the course of a month would require less than 1MB for over 40000 data points.

A simple-to-use graphical user interface is supplied free of charge with the **OceanLOG** unit to extract logged data and configure the datalogger using a PC or laptop.

Specifications	
Serial inputs	2 x RS232
Baud rate	1200 – 115200
Input format	Any ASCII string
Storage capacity	256MB
Data points	Up to 10 million
Sampling rate	Unlimited or Selective
Timestamps	Millisecond resolution
Input voltage	10–36VDC
Maximum current	10mA @ 10VDC

Subsea Housing	
Diameter	125mm
Height (excl connector)	98mm
Weight in air	1.3kg
Weight in water	1.0kg
Depth rating	3000m



## Related Products

**OceanCELL** subsea battery packs are also available with an integrated **OceanLOG** datalogger. The datalogger can operate for up to 3 months on a typical 12.6Ah battery pack. If the battery pack is used to power subsea sensors, the integral datalogger can capture their data with only a small additional power requirement.

In addition to the standard datalogger, custom designs may be developed to include:

- RS485, analogue voltage or current inputs
- Support for polled sensors or non-ASCII data
- Increased storage capacity up to 32GB
- Exporting data in user-defined or third-party formats

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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