

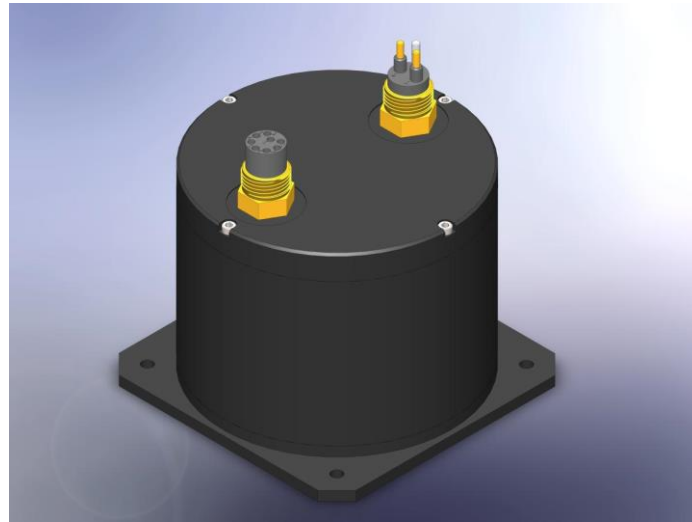


OceanTools

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

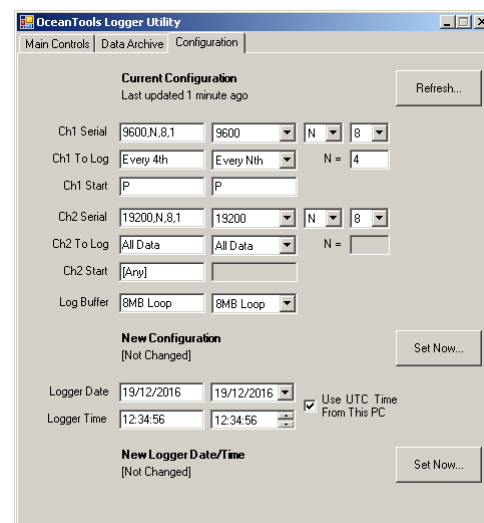
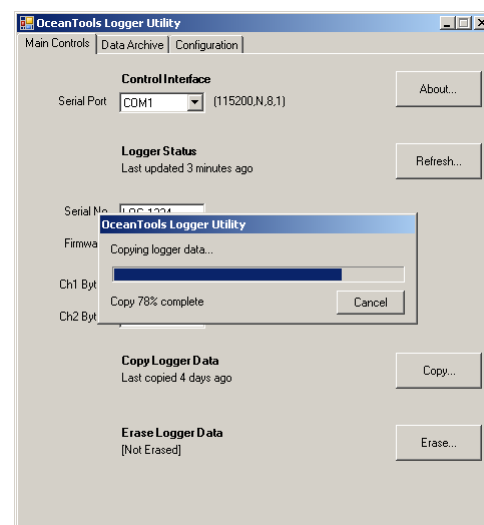
Logged data extraction is via a serial port, without breaking the pressure housing seal. Extracted data can either be saved verbatim, or in a CSV format where each line is prefixed by a timestamp.

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