



## Datalogger (datasheet)

Based on Dynaautics' extensive experience in USV and AUV design and operation, the Dynaautics Datalogger offers a simple solution to record mission data on board. The datalogger shown here offers capacity for 8 serial channels and CANbus to be recorded. ASCII and binary based data formats are supported, allowing the vessel to record navigation sensor data, command and control, and low-level machinery data at 10 Hz or more.

The Datalogger is an on-board black box data recorder that saves datastreams on board at high rate. Every sentence from every sensor can be timestamped and logged so that the mission can be reconstructed in detail for offline analysis.

The data recorder can also be used for real time monitoring. By logging into the web page, which is published by the Datalogger, the user can see live feeds, sensor data coming into the control system and commands streaming out, making it a powerful real time troubleshooting aid.

Dynaautics Datalogger can be integrated with third party systems, by connecting serial cables via Data Tee junctions, which bring out the transmit and receive signals to a rugged connector that plugs directly into the Datalogger. These signals are connected to the recording channels via high impedance input transceivers.

ASCII data is timestamped and recorded as-is, while binary channels are timestamped and can be encoded so that the data becomes human readable and can be reconstituted in its original form. CAN bus data, including NMEA2K, is timestamped and recorded on a message-by-message basis.

Typical applications include RHIBs, survey vessels and larger USVs deployed for military, survey or scientific missions.

Data may be viewed in real time using a Web app over a Wifi connection if required.

Log files may be downloaded over Ethernet or over Wifi.

### Extended capacity systems

The datalogger system may be extended using further blocks of 4 serial and 1 CAN inputs, up to a maximum capacity of 32 serial and 4 CANbus connections.

### Additional options

- 19" rack mount
- Internal battery backup (BPS)
- Ethernet data logging
- Remote monitoring

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The datalogger dashboard is presented as a web page, which may be viewed on a tablet or phone browser, or on a remote PC. The dashboard main page (shown below) shows overall status, current data rates and the latest lengths of log files.

Clicking on each port, the operator can view data streams in real time (as shown below). This facility is an invaluable tool for checking validity of data flowing through the control system.

### Datalogger specifications

Dimensions	300 x 150 x 75mm	CANbus	1
Weight	1.9kg	NMEA2K support	Yes
Power	Up to 24W at 12-24V	Baud rates	Up to 460k8
Dual redundant power	Yes	Operator interface	1x Wifi 6 @ 2.4/5 GHz 1x Ethernet 2.5 Gigabit
Serial channels	8	Real time data view	Yes
Serial interfaces	RS232, RS422, RS485	Enclosure	Ruggedised waterproof
Data formats	ASCII and binary	Storage capacity	Over 1 year of data on a single drive

Contact us to find out more about dataloggers for your vessel:

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