



Orinoco Solo V3

Multiple sensor data acquisition system

Based on the successful Orinoco line of tide gauges, the OrinocoSolo V3 is the latest offspring. The basic unit is a high capacity data logger with up to eight analogue inputs and up to four RS232 inputs (optional) and one serial data output which supports multiple formats.

Versatile sensor inputs

Multiple analogue sensors can be connected. Sensor input ranges from 0- 10 Volts or 0 – 25 mA. Power is only applied to the sensors when measuring, so the total power consumption is minimized. For ratio metric sensors a reference voltage of 10.00 Volts is available.

2GB Solo Storage

The Orinoco Solo V3 stores data on a SD-Multimedia Card. These stamp-sized cards contain a minimum of 2GB of nonvolatile flash memory. Therefore your data is safe as soon as it is written to the card and will not be affected by power failures.

Serial output and telemetry

The Orinoco Solo has a RS-232 or RS-485 compatible output



which can be used to send data to a computer, modem or a wireless telemetry unit like radio, GSM, GPRS and Wifi.

Battery operation

The Orinoco Solo can be fitted with an external Li-Ion battery pack for complete stand-alone operation. Battery voltage is monitored by the unit and transmitted if required. The Orinoco Solo V3 automatically powers down when a low battery voltage is detected.

Usage

The Seabed Orinoco Solo is used as a datalogger for tide & turbidity measurements, angle registration for wirecranes, etc. The Orinoco Solo can be configured on site.

Software

The Orinoco Solo V3 comes with dedicated Windows based software for easy configuration and to manage the data stored on the SD card.



Orinoco Solo V3 Specifications

Contact us

For more specific information concerning how we can assist your organization's needs, please call +31(0)20 636 84 43 or visit our website for more information & all our contact details, www.seabed.nl



Analogue input / output

- 2 to 8 (optional) separate analogue channels.
- 0-10 V or 0-25mA analogue inputs.
- 23 Bits resolution (0.001 mV@ 10 V range)
- 12V, 800mA sensor supply, switched on when measuring.
- +10.00 V reference voltage output.

Digital inputs

- 12 V, 800 mA supply to sensor.
- Up to 4 RS232 inputs (optional)

Power

- 10 - 32 Volt DC
- Power consumption:
 - < 10 mA Standby
 - 100 mA minimum when measuring

Control and setup

- 4 keys keyboard and LCD text-display
- Through local serial port using dedicated software.

Display

- 2 x 20 LCD Text display, with backlight.

Data output

- Standard RS-232C or RS485 serial.
- User selectable format :
 - o Vyner I/II
 - o van Essen
 - o NMEA DBS
 - o NMEA PTID (Dutch standard)
 - o Value
 - o User defined (optional)

Data storage

- Every measurement is stored in spreadsheet compatible ASCII format.
- A minimum of 2GB on SD card.

Software

- Windows XP and higher
- Configuration of sensors, logging, calibration and output.

Options

- Battery pack
- Rugged carrying case.
- Radio telemetry unit for data transmission.
- Long range WiFi connection for data transmission.
- GSM / GPRS / UMTS modem for data transmission.
- Ethernet

Specifications are subject to change without prior notification.



Getting to the bottom of things