Lode Research Data Logger

Multiple sensors in a wearable device

Highlights

Water resistance
The sensor is water resistant (IP68)

Flexibility in sample frequency
For all the type of sensors different sample frequencies can be chosen

Battery life
Battery life is around 24 hours with all sensors on maximum sample frequency

Raw data
The export file contains raw data from all the sensors

Multiple sensors
The data logger contains several sensors which can be set individually

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The Lode Research Data Logger allows for a multitude of datalogging options. The 4Gb data storage can be allocated to various data streams that can be set within the special included application. Datastreams can be set up to max 1000 Hz for ECG and other relevant high frequencies for the other sensors:

- 2-lead ECG
- XYZ acceleration up to 4g
- Magnetoscope data
- Gyroscope data
- Environmental light conditions
- User action event logging

The device is IP 68 waterproof when used with a cover cap.

Application areas are numerous. One can think of various sports logging applications, e.g in extreme (wet) circumstances, movement analysis etc.

The software allows for data upload in .csv format to your PC.

Features

Modern OS compatibility
- Windows Windows 7
- Microsoft Windows 8
- Microsoft Windows 10

USB connectivity
USB to connect to PC facilitates easy connectivity.

CSV file
Export file is a CSV file which easily can be used in:
- excel
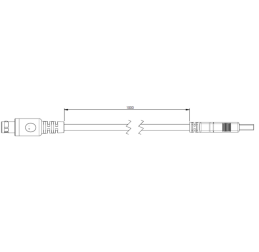- matlab
- python

Field measurements
The wireless sensor, together with the battery life and data storage capacity makes it possible to measure easily in the field

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Lode Research Data Logger can a.o be extended with the following options:

USB charge cable	ECG Streamer - docking station	ECG Acquisition cable
Easy charging	Charging batteries simultaneously	High Quality ECG Acquisition
Partnumber: 950792	Partnumber: 950840	Partnumber: 950791

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Specifications

Accuracy

Data storage capacity	4 GB	
Maximum sample frequency ECG	1000 Hz	
Resolution ECG sensor	16 bit	
CMRR ECG sensor	>100	
Maximum sample frequency accelerometer	250 Hz	
Resolution accelerometer	12 bit	
DC accuracy accelerometer	0.02	
Measurement range accelerometer	±4 g	
Maximum sample frequency gyroscope	250 Hz	
Resolution gyroscope	16 bit	
Measurement range gyroscope	±2000 °/s	
Maximum sample frequency magnetometer	50 Hz	
Resolution magnetometer	16 bit	
Measurement range magnetometer	±4800 µT	
Maximum sample frequency light sensor	10 Hz	
Resolution light sensor	16 bit	
Measurement range light sensor	0.01-100k lumen	
Maximum sample frequency event button	10 Hz	

Connectivity

LDEM	✔
USB connector	✔

Dimensions

Product height (mm)	25 mm	
Product length (mm)	94 mm	
Product width (mm)	36 mm	
Product weight	0.04 kg	0.1 lbs

Power requirements

Autonomy	1440 min

Compatibility

Microsoft Windows 10	✔
Microsoft Windows 8	✔
Microsoft Windows 7	✔

Included parts

Lanyard	✔
PC software included	✔
All cables included	✔

Order info

Partnumber:	950931

Specifications are subject to change without notice.

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