

Labdisc Physio Data Logger Specifications



Parameter	Labdisc Physio	
Supported Platforms	Standalone, PC, Mac, iPad, Linux, Android, Chromebook	
Built-in Sensors	11 sensors: Accelerometer, Air Pressure, Ambient Temperature, Current, Distance (Motion), External Temperature, Light, Low Voltage, Microphone, 2 x Universal Input, Voltage	
Stopwatch	0.1s to 99:59.9 minutes	
Max. Sampling Speed	100,000/s	
Sampling Resolution	12-bit	
Internal Data Storage	1,000,000 samples	
Internal Rechargeable Battery	LiPO 3.6V	
Battery Life	> 150 hours	
Display	Graphical LCD	
Keypad	Yes	
Communication	USB 2.0	
Wireless Communication	Bluetooth V2.0+EDR	
Remote Data Collection	Yes	
Automatic Sensor Testing & Calibration	Yes	
Size	ф=132, H=45 mm	
Weight	300 gr.	
Temperature Range	-10 to 50 °C	
Standard Compliance	CE, FCC	



Labdisc Physio Built-in Sensor Specifications

Sensor Type	Max. Range	Accuracy
Accelerometer (3 Axis)	-8 to +8g	±3 %
Air Pressure	0 to 300 kPa	±2.5 kPa
Ambient Temperature	-10 to 50 °C	±1 °C
Current	-1 to 1 A	±2 %
Distance (Motion)	0.4 to 10 m	±2 %
Light	0 to 55,000 lx	±15 %
Low Voltage	- 500 to 500 mV	±2 %
Microphone	0 to 5 V	N/A
Ext. Temperature	-25 to 125 °C	±2 °C
Universal Input (2 ports)	0 to 5 V	±2 %
Voltage	- 30 to 30 V	±2 %

Analysis Software Specifications

Parameter	Description	
Data Retrieval	Online up to 100 samples per second, or download Labdisc stored data	
Data Display	Line graphs, bar graphs, tables, meters, Google Maps	
Communication	USB 2.0, Bluetooth 2.0	
Data Logging Configuration	Sensor selection, sampling rate, sampling points	
Graph Manipulation	Placing and moving up to two markers on the graphs, zoom in/out, graph cropping, graph color change, sensor legend (allowing graph show/hide and the selection of lines/icons for the graph samples	
Graph Annotation	Text and image annotations on the graph	
Mathematical Functions	Derivative, linear regression, quadratic regression, FFT	
Statistics	Minimum, maximum, average, standard deviation for a selected graph	
Data Manipulation	Save/open experiment data, direct export to EXCEL, display hardcopy printout	
Workbook	Full suite of built-in curriculum activities	
Stored Experiments	Full suite of stored experiment data	
Configuration	Sensor calibration, change of sensor units	
Firmware Update	Ability to update the Labdisc firmware through a USB connection	
OS	PC, Mac, Linux, iPad, Android, Chromebook	