

Labdisc BioChem Data Logger

Specifications



Parameter	Labdisc BioChem
Supported Platforms	Standalone, PC, MAC, iPad
Built-in Accessible Sensors	15 sensors: Air Pressure, Amb. Temperature, Barometric Pressure, Colorimeter, Conductivity, Dissolved Oxygen (electrode sold separately), GPS, Heart Rate, Light, pH, Relative Humidity, Thermocouple, Turbidity, 2 x Universal Input
Max. Sampling Speed	100/s
Sampling Resolution	12-bit
Internal Data Storage	100,000 samples
Internal Rechargeable Battery	LiPO 7.2V
Battery Life	> 150 Hours
Display	Graphical LCD 64 x 128 pixels
Keypad	Yes
Communication	USB 2.0
Wireless Communication	Bluetooth V2.0
Remote Data Collection	Yes
Automatic Sensor Testing & Calibration	Yes
Size	$\phi=132$, H=45 mm
Weight	200 gr.
Temperature Range	-10 to 50 °C
Standard Compliance	CE, FCC

Labdisc BioChem Built-in Sensor Specifications

Sensor Type	Max. Range	Accuracy
Air Pressure	0 to 300 kPa	±2.5 kPa
Barometer	300 to 1100 mB	±2.5 mB
Colorimeter	10 to 90% transmittance (3 colors)	±5 %
Conductivity	0 to 20 ms	±2 %
Dissolved Oxygen	0 – 14mg/l	±8 %
External Temperature	-25 to 110 °C	±2 %
GPS	N/A	±3m
Heart Rate	0 - 200 bpm	±1 digit
Internal Temperature	-10 to 50 °C	±0.5 °C
Light	0 – 55,000 lx	±15 %
pH	0 to 14 pH	±2 %
Relative Humidity	0 to 100 %RH	±4%, 10% to 90% RH
Thermocouple	-200 to 1000 °C	±2 %
Turbidity	0 to 1000 NTU	±10 %
Universal Input	0 to 5 V	±2 %

Analysis Software Specifications

Parameter	Description
Data Retrieval	Online up to 100s/s, or download Labdisc stored data
Data Display	Line Graph, Table, Meters, Google map
Communication	USB, Bluetooth
Data Logging Configuration	Sensor selection, sampling rate, sampling points
Data Manipulation	Placing and moving up to 2 markers on the graphs zoom in/out, graph cropping, graph coping, functions such as: derivative and regressions
Data Export	Automatic export to EXCEL
OS	PC, MAC, iOS