

Labdisc Enviro Data Logger Specifications



Parameter	Labdisc Enviro
Supported Platforms	Standalone, PC, Mac, iPad, Linux, Android, Chromebook, WEB
Built-in Accessible Sensors	13 sensors: Ambient Temperature, Barometer, Colorimeter, Dissolved Oxygen (electrode sold separately), External Temperature, GPS, IR Temperature, pH, Relative Humidity, Sound Level, Turbidity, Universal Input and UV
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 ¹	> 200 Hours
Display	Graphical LCD 64 x 128 pixels
Keypad	Yes
Communication	USB 2.0
Wireless Communication	Bluetooth low energy V5.1
Remote Data Collection	Yes
Automatic Sensor Testing & Calibration	Yes
Size	$\phi=132$, H=45 mm
Weight	300 gr.
Temperature Range	-10 to 50 °C
Standard Compliance	CE, FCC

¹ For sampling rate of 1 per minute



Labdisc Enviro Built-in Sensor Specifications

Sensor Type	Max. Range	Accuracy
Ambient Temperature	-10 to 50 °C	±1 °C
Barometric Pressure	500 to 1100 mB	±2.5 mB
Colorimeter	10 to 90% transmittance (3 colors) λ R=620 nm λ G=550 nm λ B=470 nm	±5 %
Dissolved Oxygen	0 to 14 mg/l	±8 %
External Temperature	-25 to 125 °C	±2 %
GPS	N/A	±3m
IR Temperature (Wide)	-70 to 380 °C	±0.5 °C @ 0 to 60°C ±1 °C @ 60 to 120°C ±1 °C @ -40 to 0°C ±2 °C @ 120 to 380°C ±2°C @ -70 to 40°C
pH	0 to 14 pH	±2 %
Relative Humidity	0 to 100 %RH	±3.5% (20% to 80%) RH
Sound Level	56 to 95 dB	±4 dB
Turbidity	0 to 1000 NTU	±10 %
UV	0 to 12 UV Index	±5 %

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 of 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, WEB

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