



## Labdisc Gensci Data Logger Specifications



| Parameter                              | Labdisc Gensci                                                                                                                                                                              |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Supported Platforms                    | Standalone, PC, MAC, iPad Linux, Android, Chromebook, WEB                                                                                                                                   |
| Built-in Accessible Sensors            | 13 sensors:<br>Air Pressure, Ambient Temperature, Current, Distance (Motion), External Temperature, GPS, Light, Microphone, pH, Relative Humidity, Sound Level, Universal Input and Voltage |
| 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                           | > 200 hours                                                                                                                                                                                 |
| Display                                | Graphical LCD 64 x 128 pixels                                                                                                                                                               |
| Keypad                                 | Yes                                                                                                                                                                                         |
| Communication                          | USB V2.0                                                                                                                                                                                    |
| 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                                                                                                                                                                                     |



## Labdisc Gensci Built-in Sensor Specifications

| Sensor Type         | Max. Range     | Accuracy          |
|---------------------|----------------|-------------------|
| 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 %              |
| GPS                 | N/A            | ±3 m              |
| Light               | 0 to 55,000 lx | ±15 %             |
| Microphone          | 0 to 5 V       | ±2 %              |
| pH                  | 0 to 14 pH     | ±2 %              |
| Relative Humidity   | 0 to 100 %RH   | ±3.5% (20%-80%RH) |
| Sound Level         | 56 to 95 dBa   | ±4 dB             |
| Temperature         | -25 to 125 °C  | ±2 °C             |
| Universal Input     | 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                                                                                                                                                                 |
| OS                         | PC, Mac, Linux, iPad, Android, Chromebook, WEB                                                                                                                                                       |

Updated Jan 2026