

RootLog Owner's Manual

Private Environmental Logger

Welcome to RootLog. You now own a dedicated, privacy-focused environmental monitor. Unlike smart home devices that send your data to the cloud, RootLog keeps everything local. All measurements are stored securely on a MicroSD card for your eyes only.

What RootLog Monitors

- 1 Temperature (°C): Precision thermal monitoring.
- 2 Humidity (%): Relative humidity for comfort and mold prevention.
- 3 Pressure (hPa): Barometric pressure readings.
- 4 Air Quality (eCO2 & TVOC): Indicates when ventilation is recommended.

Getting Started

Step 1: MicroSD Card

Format a MicroSD card to FAT32 and insert it into the slot. Ensure it is fully seated before powering the device.

Step 2: Power Up

Connect a USB-C cable to a 5V power source. During boot, the display will show system status. If 'SD Fail!' appears, recheck card formatting and insertion.

Using RootLog

Display

The OLED shows live environmental data. Depending on firmware, the screen may dim automatically to extend lifespan.

Button Control

- 1 Short Press: Cycle through data screens.
- 2 Long Press (2s): Enter Deep Sleep mode. Press again to wake.

Data Analysis

Each day is saved as a CSV file named by date (DD-MM-YYYY). Files can be opened with Excel, Google Sheets, or similar software to visualize trends over time.

Specifications & Safety

- 1 Input Power: 5V USB-C (500 mA minimum).

- 2 Operating Temperature: 0°C – 50°C.
- 3 Storage: MicroSD up to 32 GB.
- 4 Warning: Device is not waterproof. Avoid high condensation environments.