

SPARKLIKE HANDHELD NOVA™

Web Application Guide

nova.sparklike.com

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1. Overview

The Sparklike Handheld Nova™ web application is a browser-based tool available at nova.sparklike.com. It connects to the Handheld Nova™ device over a wireless connection (BLE), downloads measurement data stored on the device, and provides tools for reviewing, analysing, and exporting results.

The application requires no installation. All downloaded measurement data is stored in the local memory of the browser, meaning results from multiple devices can be accumulated and reviewed across sessions on the same computer.

NOTE Data is stored in the browser's local storage. Clearing browser data or switching browsers will remove previously downloaded results.

2. System Requirements

To use the web application, the following are required:

- A desktop or laptop computer with Bluetooth support
- A web browser that supports the Web Bluetooth API (Google Chrome or Microsoft Edge recommended)
- Bluetooth enabled in the operating system settings
- Sparklike Handheld Nova™ device with BLE Connection turned ON in device settings

NOTE Safari and Firefox do not currently support Web Bluetooth and cannot be used with this application.

3. Connecting the Device

The Handheld Nova™ connects to the web application over BLE. Before connecting, ensure BLE is enabled on the device.

3.1 Enable BLE on the Device

1. On the Handheld Nova™, press the MENU button to open the menu.
2. Navigate to Settings and press OK.
3. Select BLE Connection and ensure it is set to ON.

3.2 Connect via the Web Application

4. Open nova.sparklike.com in a supported browser.
5. Click the Connect button in the upper right corner of the application.

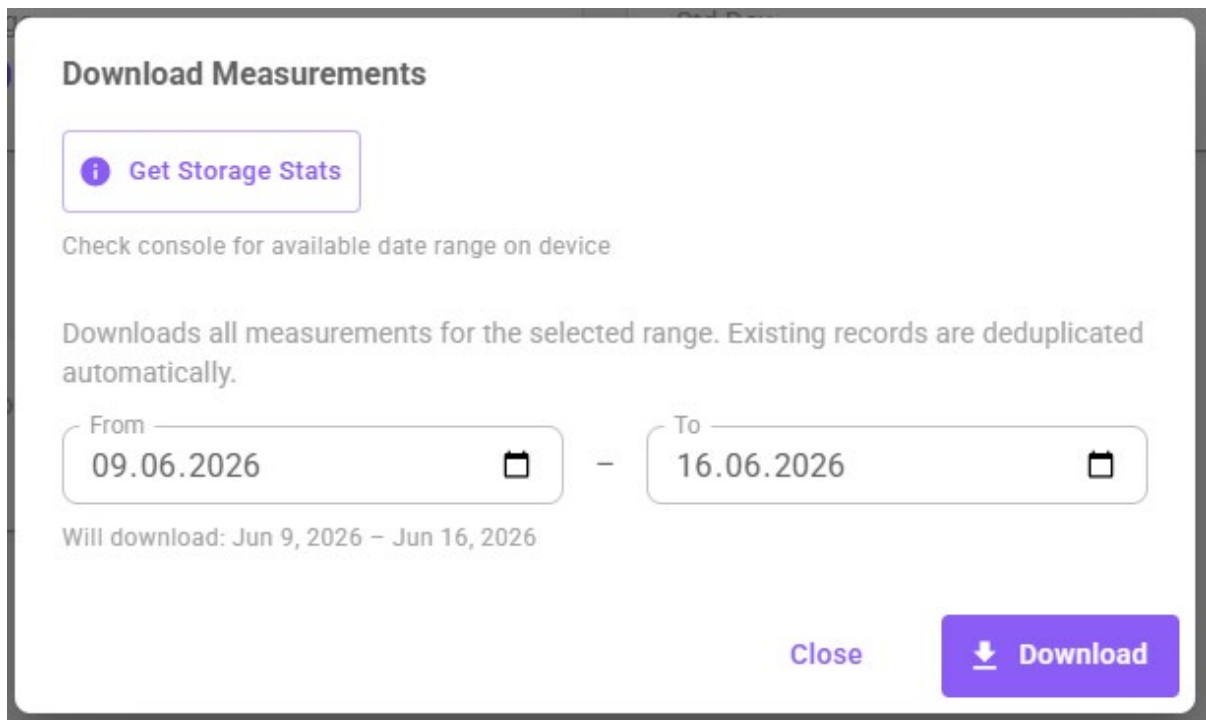
6. A browser dialog will appear listing available wireless devices. Select your Handheld Nova™ device from the list.
7. Click Pair / Connect to establish the connection.
8. Once connected, the device name and status will be shown in the application.

NOTE Connecting the device automatically syncs the time and date on the Handheld Nova™ with your computer.

3.3 Downloading Results

When a device is connected, the application will begin downloading measurement data automatically. However, automatic downloads may occasionally be incomplete. It is therefore recommended to always download results manually to ensure all data has been transferred correctly.

To download manually, click the Download button that appears in the top right corner once a device is connected. Select the dates you want to download (picture below). This transfers all measurement data stored on the device into the browser. The data is saved in the browser's local memory and remains available after disconnecting.



Results from multiple devices can be downloaded and viewed together. Each measurement record includes the serial number of the device it was taken with.

NOTE Always use the manual Download button to confirm all results have been received, even if the automatic download appears to have completed.

4. Application Sections

The web application is organised into five main sections, accessible via the navigation tabs: Statistics, Line Chart, Measurements, Calendar, and Histogram.

4.1 Statistics

The Statistics section provides a summary of all downloaded measurement data within the selected date range. At the top of the page, three filters allow you to narrow the data shown:

- **Device:** Filter by a specific device serial number, or select All Devices to view results from all downloaded devices combined.
- **Start Date and End Date:** Set the date range for the statistics displayed (format: dd.mm.yyyy).

Results are shown separately for Argon and Krypton. For each gas type, four statistical values are displayed:

- **Count:** Total number of measurements taken within the selected period.
- **Average:** The mean gas concentration across all measurements (%).
- **Std Dev:** Standard deviation, indicating how consistent the results are. A low value means results are tightly grouped; a higher value indicates more variation.
- **Range:** The minimum and maximum measured concentration values (%).

Below the gas statistics, an Errors section shows the total number of measurement errors recorded for Argon and Krypton separately. A high error count may indicate measurement conditions that should be reviewed, such as incorrect device positioning, glass type limitations, or a device requiring calibration.

NOTE If a device is only calibrated for Argon, the Krypton statistics will show zero values. This is expected and does not indicate a problem.

4.2 Line Chart

The Line Chart tab is titled Concentration Trend and displays the average gas concentration (%) on the Y-axis plotted over time on the X-axis. Three filters are available in the top right corner:

- **Gas Type:** Filter results by Argon or Krypton.
- **Device:** Filter by a specific device serial number, or view all devices combined.
- **Group By:** Set the time grouping of the X-axis – Hour, Day, or Week.

This view is useful for identifying trends in gas fill rates over a production period, spotting gradual drift, or verifying that results are consistently within specification.

4.3 Measurements

The Measurements tab displays all individual measurement records. The total count is shown next to the tab title.

An Export CSV button in the top right corner allows the currently filtered data to be downloaded as a CSV file.

Five filters are available to narrow the results:

- Device: Filter by a specific device serial number.
- Gas Type: Filter by Argon or Krypton.
- Type: Filter by Single or Multi-sample measurements.
- Start Date and End Date: Set a date range (format: dd.mm.yyyy).
- Show errors: When checked, only measurements that contain an error are shown.

Each row in the table represents one measurement and includes the following columns:

Time	Device	Sequence	Gas Type	Tag	Concentration	Type	Error	Delete
2026-06-10 08:23	HN10-2611	193	Argon	FL 3 tough	90.4%	Single	—	
2026-06-10 08:25	HN10-2611	192	Argon	—	89.7%	Multi (avg)	—	
2026-06-10 09:01	HN10-2611	191	Argon	—	67.3%	Single	CCD overexposure detected	

Column descriptions:

- Time: Date and time the measurement was taken on the device.
- Device: Serial number of the Handheld Nova™ that recorded the measurement.
- Sequence: The measurement counter number on the device at the time of measurement.
- Gas Type: The gas the device was set to measure (Argon or Krypton).
- Tag: Barcode or QR code information scanned before the measurement, if any.
- Concentration: The measured gas fill percentage.
- Type: Indicates whether the result is a Single measurement or a Multi-sample average (multi-sample measurements are averaged from several samples of the same insulating glass unit).
- Error: Displays any error or notification associated with the measurement. Measurement errors include, for example, “Interpolation failed”, “CCD overexposure detected”, or “Concentration too low (<40%)”.
- Actions: Contains a delete button (trash icon) to remove an individual measurement record from the browser. This action cannot be undone.

4.4 Calendar

The Calendar tab is titled Measurement Calendar and shows daily measurement activity by month. Navigation arrows at the top allow browsing between months. Each day that has measurements is highlighted with a coloured tile and shows the measurement count. The colour of the tile indicates the volume of measurements relative to other days – for example, orange for lower counts and green for higher counts. Days with no measurements show no tile.

This view is particularly useful when there are minimum daily measurement requirements – for example, verifying that a sufficient number of measurements were recorded each working day. Days with lower-than-expected activity are easy to identify at a glance.

4.5 Histogram

The Histogram shows the distribution of measurement results across gas concentration ranges. Each bar represents the number of measurements that fell within that concentration band. The width of each bar (bucket size) can be adjusted using the Bucket Size slider at the top of the view, ranging from 1% to 20%. A smaller bucket size gives a more detailed distribution; a larger size gives a broader overview. Filters at the top right allow results to be narrowed by Gas Type and Device.

This view is useful for:

- Verifying that the majority of production units fall within the target gas fill range
- Identifying systematic under- or over-filling patterns
- Spotting outliers or a wider-than-expected spread in results

5. Exporting Data

Measurement data can be exported in CSV format directly from the Measurements tab using the Export CSV button in the top right corner. The exported file includes all records currently visible based on the active filters.

To export:

9. In the Measurements tab, apply any filters as needed (Device, Gas Type, Type, date range, Show errors).
10. Click the Export CSV button in the top right corner.
11. The file will be saved to your computer's default downloads folder.

The CSV file can be opened in Microsoft Excel, Google Sheets, or other spreadsheet tools for further analysis, reporting, or archiving.

NOTE The CSV export reflects the currently filtered view. Adjust filters before exporting to ensure the correct data is included. Make sure all relevant devices have been connected and their data downloaded before exporting.

6. Data Storage

All measurement data downloaded from the Handheld Nova™ is stored in the local memory of the web browser on your computer. No data is sent to or stored on Sparklike's servers through the web application.

Results from multiple devices accumulate in the browser over time. To clear all stored data, the browser's local storage can be cleared through the browser settings. Note that this action is irreversible and will remove all downloaded measurement history.

NOTE Switching to a different browser or computer will result in an empty application. Download data on each computer where it is needed.

7. Troubleshooting

Device does not appear in the wireless pairing dialog

- Ensure BLE Connection is set to ON in the device's Settings menu.
- Ensure Bluetooth is enabled on your computer.
- Use Google Chrome or Microsoft Edge. Other browsers do not support Web Bluetooth.
- Try refreshing the page and clicking Connect again.

No data appears after connecting

- Ensure the measurement log is turned ON in the device menu before taking measurements. If logging was off, no data will have been saved.
- Even if data downloads automatically, always click the Download button manually to confirm all results have been transferred.

Previously downloaded data is missing

- Data is stored in the browser's local memory. If browser data has been cleared, or a different browser or computer is being used, previously downloaded data will not be available.
- Re-connect the device and download the data again.

Connection drops during data transfer

- Ensure the device is within wireless range (typically within 10 metres with no obstructions).
- Do not disconnect the charger or turn off the device during transfer.
- Reconnect and attempt the download again.

8. Further Support

For additional guidance, visit sparklike.com/guidance/hh.

To order calibration or contact service, visit sparklike.com/en/order-calibration or email service@sparklike.com.