

DPM SERIES MM-WAVE POWER METER



USER INTERFACE GUIDE

All information from this document is protected by the related copyright, patent, or intellectual property right.

ELVA-1 has the exclusive right to change this information in order to improve performance or usability of the described product.

DPM is a trademark of ELVA-1. All other trademarks or product names are the property of their respective owners.

Copyright © 2026, ELVA-1

Turning On the Power Meter

To start the device, connect the Type-C +5 V power supply and the power sensor block, then switch the On/Off button to the On position. After the device finishes loading, the main DPM window launches automatically.

The start menu is shown in Figure 1. (Fonts, sizes, and button positions may differ depending on the firmware version).

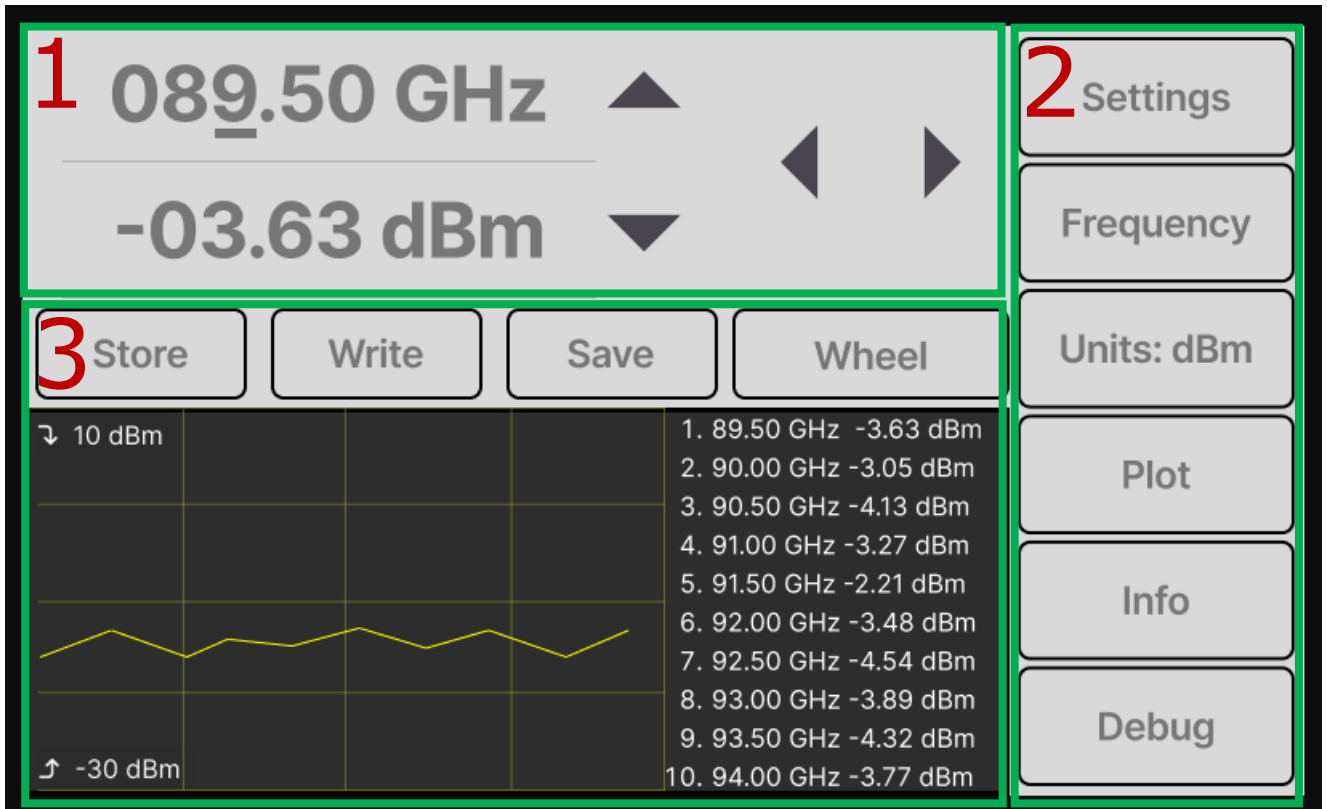


Fig. 1. Main window

The main window provides a user interface with touchscreen control capability. The main buttons are described in the sections below.

The green lines in Figure 1 highlight the corresponding sections:

1. Frequency control window
2. Control panel
3. Save menu and plot.

Frequency Control Panel

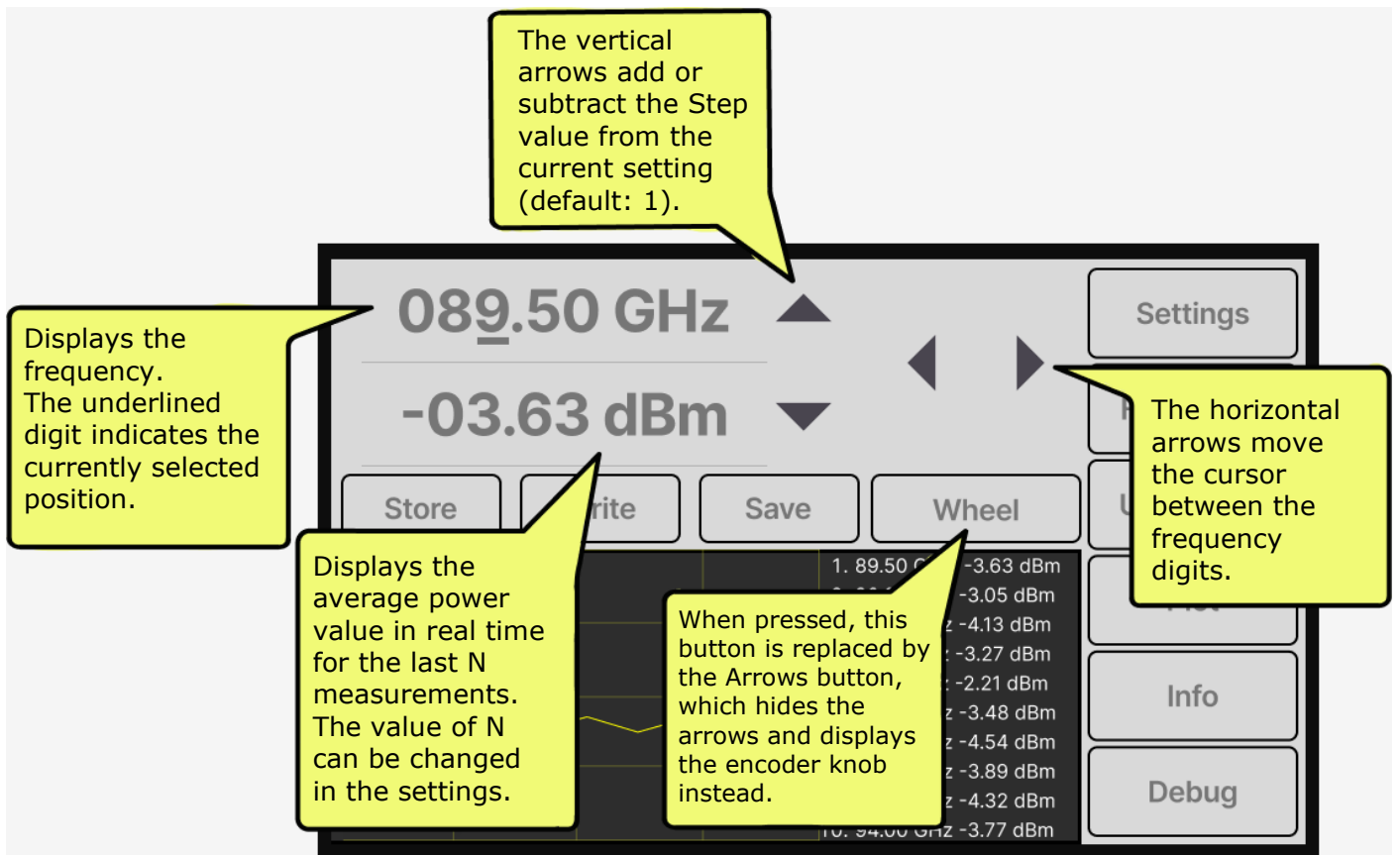


Fig.2. Frequency control window.

The frequency control panel displays the currently set frequency and power, as well as buttons for monitoring and changing these values. The arrows or encoder are used to adjust the frequency of the measured signal.

Control Panel

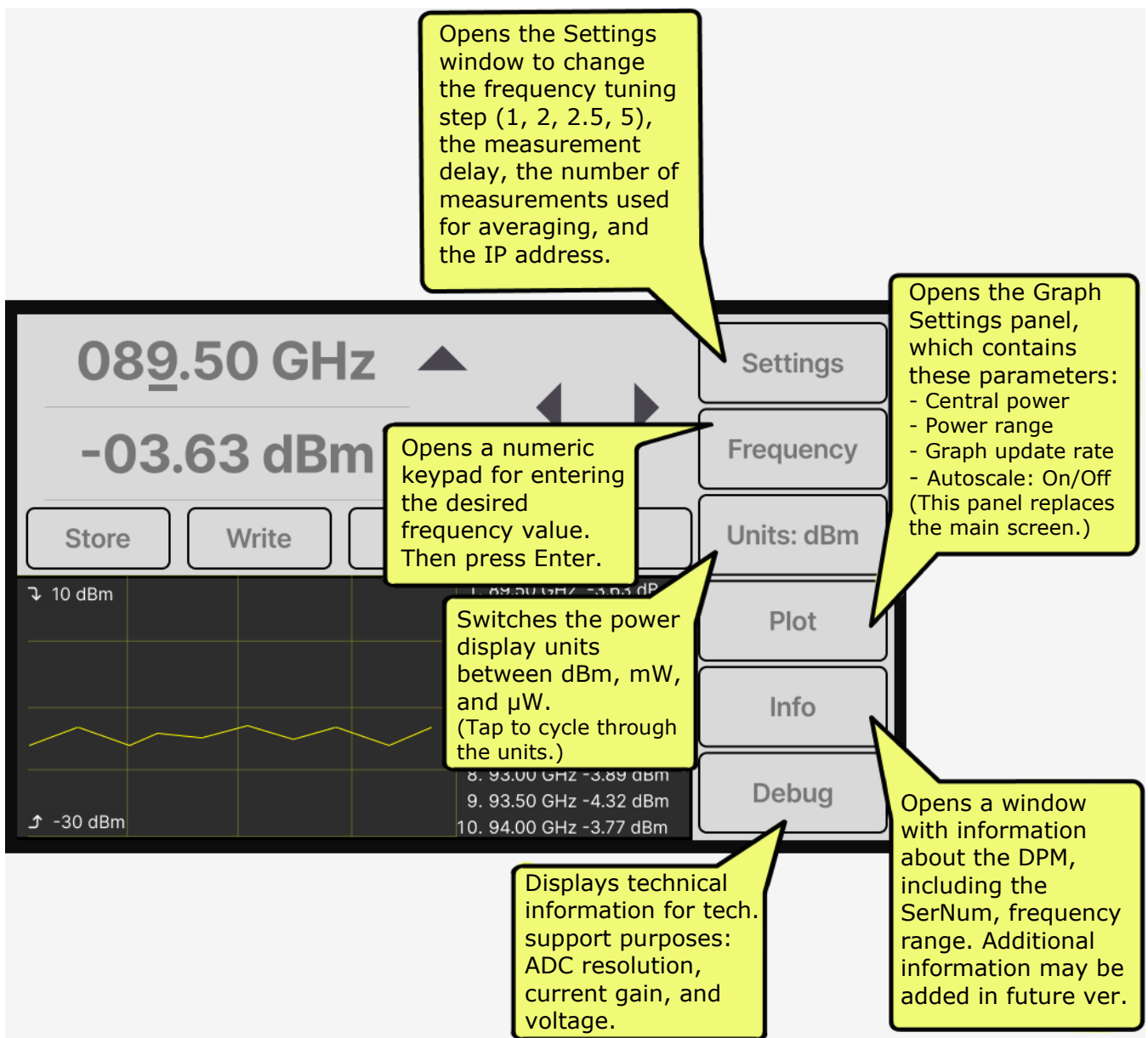


Fig.3. Control panel

The Control panel is located on the right side of the screen. It contains the main global settings that affect the operation of the entire device. (In the current version, some functionality may be missing, contact ELVA-1 for updates.)

The panel contains six buttons:

1. Settings
2. Frequency
3. Units
4. Plot
5. Info
6. Debug

Save Menu and Plot Display

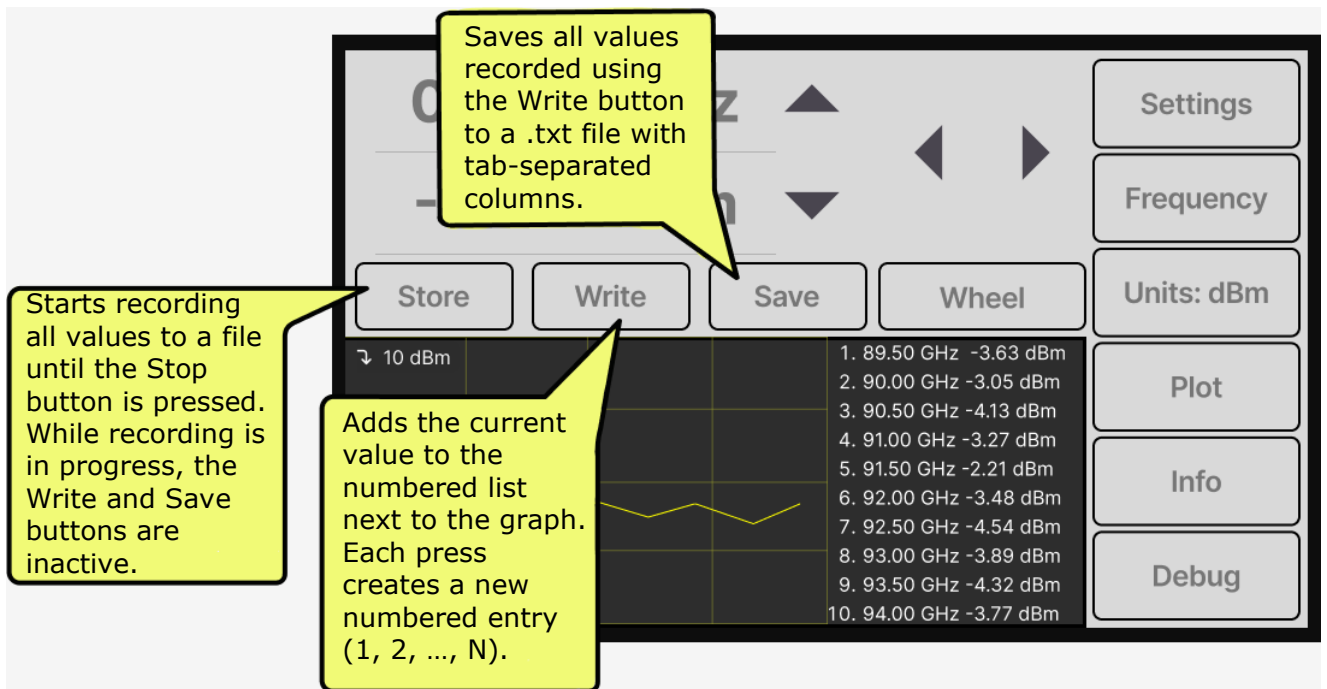


Fig.4. Save Menu and Plot

- You can use Fig.4 buttons to save measurement data. (Some functionality may not yet be implemented, depending on the firmware version.)
- Saved files can be downloaded using the web interface (see below).
- The graph displays the latest measurements. Visually, it shifts to the right as each new value appears on the far right side.
- When the units are changed, the graph is automatically updated. By default, autoscale mode is enabled, allowing you to track power changes on the screen.

Using USB interface

To use the USB interface and control the indicator unit from a computer, follow these steps:

1. Connect the computer to the DPM indicator unit using the USB-B connector.
2. Install an application on the computer for sending commands, for example: Silabs CP2110 HID USB.
3. Set the port parameters to 1200, 8N1.

Currently implemented commands

"read?" or "fetc?" — reads the power value in the current units.

"unit:pow?" — queries the current units (W/dBm)

"unit:pow w" — sets the units to W

"unit:pow dbm" — sets the units to dBm

"sens:freq?" — queries the current frequency

"sens:freq 91"

"sens:freq 091"

"sens:freq 91.0"

"sens:freq 091.00" — sets the frequency

"calc:aver:coun 50" - set number of measurements to 50

--- End of document ----