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AVHzY K2

AVHzY K2 USB Voltage & Current Meter Instruction Manual

Model: K2B

Introduction

The AVHzY K2 USB Voltage & Current Meter is a professional-grade testing device designed for comprehensive analysis of USB-C power delivery systems. It provides real-time measurements of voltage, current, and power, along with advanced features such as protocol detection, ripple measurement, and PC software connectivity for detailed data logging and firmware updates. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your K2 meter.

Setup

Before using your AVHzY K2 meter, please ensure all components are present and undamaged. The device is designed for in-line measurement between a power source (charger) and a load (device).

1. **Initial Inspection:** Carefully unbox the K2 meter and inspect it for any visible damage.
2. **Connecting the Meter:**
   - Connect the USB-C male end of the K2 meter to your USB-C power source (e.g., wall charger, power bank).
   - Connect your USB-C device (e.g., phone, laptop, tablet) to the USB-C female port on the K2 meter.

   The meter will power on automatically and begin displaying real-time data.



The AVHzY K2 USB Voltage & Current Meter. Connect it between your charger and device for measurement.

Operating Instructions

The K2 meter features a 1.54-inch color IPS display and intuitive controls for navigating various measurement modes and settings.

1. Real-time Measurement Display

Upon connection, the main screen displays live voltage (V), current (A), and power (W) readings. It also tracks accumulated capacity (Ah) and energy (Wh).



The K2 meter's display showing real-time voltage, current, and power measurements.

2. Fast Charging Protocol Detection

The K2 meter automatically detects various fast charging protocols, including PD3.1, EPR (28V), AVS induction, QC, FCP, SCP, and more. This information is displayed on a dedicated screen, allowing you to verify charger compatibility.



The K2 meter identifying various fast charging protocols supported by the connected power source.

3. Ripple and Waveform Analysis

Access the ripple detection and waveform frequency analysis modes to assess the stability and quality of the power output. This feature is crucial for identifying noisy power sources that could potentially harm sensitive electronics.



The K2 meter's screen showing a waveform graph for ripple measurement, indicating power stability.

4. PC Software Connectivity

Connect the K2 meter to a PC via its USB-HID interface for advanced monitoring, data logging, and firmware updates. The PC software allows for detailed curve recording and analysis of charging performance over time.

Maintenance

Proper maintenance ensures the longevity and accuracy of your AVHzY K2 meter.

- **Cleaning:** Use a soft, dry cloth to clean the device. Avoid using abrasive cleaners or solvents.
- **Storage:** Store the meter in a cool, dry place away from direct sunlight and extreme temperatures.
- **Firmware Updates:** Periodically check the official AVHzY website for firmware updates. Connect the device to a PC using the USB-HID interface and follow the instructions provided with the update package. Firmware updates can improve performance, add new features, and fix bugs.

Troubleshooting

If you encounter issues with your K2 meter, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No display when connected	Insufficient power from source; faulty cable; device not drawing power.	Ensure the power source is active. Try a different USB-C cable. Verify the connected device is functioning.

Problem	Possible Cause	Solution
Inaccurate readings	Poor connection; damaged cable; device malfunction.	Reconnect the meter and cables securely. Test with known good cables and chargers.
PC software not detecting meter	Missing drivers; incorrect USB port; faulty USB cable.	Install necessary drivers from the AVHzY website. Try a different USB port on your PC. Use a high-quality USB-C data cable.
Screen frozen or unresponsive	Temporary software glitch.	Disconnect the meter from all power sources for a few seconds, then reconnect. If the issue persists, check for firmware updates.

Specifications

Feature	Detail
Brand	AVHzY
Model	K2B (CC1)
Power Source	Corded Electric (via USB-C)
Voltage Measurement Range	3.3V - 36V (K2-226 version), 3.3V - 48V (K2-237 version)
Current Measurement Range	0A - 6A (10A Peak)
Voltage Resolution	0.0001 V
Current Resolution	0.0001 A
Display	1.54" Color IPS (240 x 240 resolution)
Supported Protocols	PD3.1, EPR (28V), AVS induction, various fast-charge protocols
Connectivity	USB-HID for PC connection (firmware updates, monitoring)
USB-C Port	24P Straight-Through High-Conductivity
Compatible Devices	USB-C chargers, cables, phones, laptops, power banks
UPC	735209487146

Warranty and Support

AVHzY products are manufactured to high-quality standards. For warranty information, please refer to the documentation included with your purchase or visit the official AVHzY website. If you require technical assistance or have questions regarding your K2 USB Voltage & Current Meter, please contact AVHzY customer support through their official channels.

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