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› [Walfront](#) /

› [Walfront UM34C USB Meter Tester User Manual](#)

Walfront UM34/UM34C

Walfront UM34C USB Meter Tester User Manual

Model: UM34/UM34C

1. PRODUCT OVERVIEW

The Walfront UM34C USB Meter Tester is a versatile device designed for real-time monitoring and measurement of various parameters related to USB power supply and charging. It provides detailed insights into voltage, current, power, internal resistance, temperature, and timing, making it an essential tool for evaluating charger performance, battery quality, and data cable integrity.



Figure 1: Front view of the Walfront UM34C USB Meter Tester displaying voltage and current readings.

Key features include:

- **Convenient Connection:** Seamlessly connects via Bluetooth to a mobile application for real-time monitoring of charging status, voltage, current, capacity, and other indicators.
- **Data Cable Detection:** Utilizes a voltage difference method to assess data cable quality by measuring voltage variations, helping to identify advantages and disadvantages of different cables (requires a special load).
- **High-Definition Display:** Features a clear screen that displays multi-function data such as voltage, current, power, internal resistance, and temperature in real-time.
- **Quick Identification:** Capable of identifying QC2.0 and QC3.0 fast charging protocols.
- **Quality Detection:** Enables identification of charger and battery quality through capacity and energy detection.

2. PHYSICAL COMPONENTS AND DIMENSIONS



Figure 2: Dimensions of the UM34C tester, approximately 7cm (2.75 inches) in length and 3cm (1.18 inches) in width.

5. **Bluetooth Pairing:** Once the app is installed, open it and follow the in-app instructions to pair with your UM34C device via Bluetooth. Ensure Bluetooth is enabled on your mobile phone.



Real-time monitoring of USB power charging status, voltage, current, capacity, internal resistance, temperature, timing and other indicators

Figure 4: The UM34C tester in operation, monitoring a device connected to a power outlet.

4. OPERATING INSTRUCTIONS

The UM34C provides various measurement modes and display screens. Use the physical buttons on the device to navigate through different screens and functions.

4.1. On-Screen Display Navigation

The device features "PREV" and "NEXT" buttons (or similar navigation controls) to cycle through different display screens. Each screen presents specific data:

- **Main Screen:** Displays real-time voltage (V) and current (A).
- **Capacity/Energy Screen:** Shows accumulated charge capacity (mAh) and energy (mWh).
- **Internal Resistance/Temperature Screen:** Provides readings for internal resistance and device temperature.

- **Data Cable Detection Screen:** Used in conjunction with a special load to measure voltage drop across data lines (D+ and D-).
- **Quick Charge Protocol Detection:** Indicates detected fast charging protocols (e.g., QC2.0, QC3.0).

4.2. Using the Mobile Application (UM34C only)

The mobile application offers an enhanced user experience with graphical data representation, data logging, and remote control capabilities.

- **Real-time Data:** View all measured parameters simultaneously on your phone screen.
- **Data Graphing:** Observe trends in voltage, current, and power over time.
- **Data Export:** Export logged data for further analysis.
- **Firmware Updates:** Check for and apply firmware updates for the device via the app.

Refer to the in-app help section for detailed instructions on specific app features.

5. MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your UM34C USB Meter Tester.

- **Cleaning:** Use a soft, dry cloth to clean the device. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device in a cool, dry place, away from direct sunlight and extreme temperatures. The included tin case (if applicable) provides excellent protection.
- **Handling:** Avoid dropping the device or subjecting it to strong impacts, as this can damage internal components or the display.
- **Moisture:** Keep the device away from water and high humidity. It is not waterproof.



Figure 5: The UM34C tester neatly stored in its protective tin case, ideal for safe keeping.

6. TROUBLESHOOTING

If you encounter issues with your UM34C USB Meter Tester, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device does not power on / Display is blank.	No power supply; Faulty USB port; Device malfunction.	Ensure the USB power source is active. Try a different USB port or charger. If problem persists, contact support.
Incorrect or fluctuating readings.	Loose connection; Faulty cable; Overload; Environmental interference.	Ensure all connections are secure. Try a different USB cable or device. Avoid using in environments with strong electromagnetic interference.

Problem	Possible Cause	Solution
Bluetooth connection fails (UM34C).	Bluetooth off on phone; App not installed; Device not in pairing mode; Interference.	Ensure Bluetooth is enabled on your phone. Reinstall the app. Restart both the tester and your phone. Try pairing in a different location.
Display shows "Unknown" for D+/D- voltage.	No data cable connected; Cable not supporting data transfer; Special load not used.	Connect a data-enabled USB cable. Ensure the cable is fully functional. Use a special load as required for data cable detection.

7. SPECIFICATIONS

The following table outlines the technical specifications for the Walfront UM34C USB Meter Tester:

Parameter	Value
Model Number	UM34/UM34C
Product Dimensions (L x W x H)	2.8 x 1.2 x 0.49 inches (7 x 3 x 1.24 cm)
Item Weight	0.05 Kilograms (1.76 ounces)
Minimum Operating Voltage	4 Volts
Power Source	Battery Powered (internal, charged via USB)
Manufacturer	Walfront
ASIN	B07HKBQML9

8. WARRANTY AND SUPPORT

Information regarding the specific warranty period and detailed support procedures for the Walfront UM34C USB Meter Tester is not available in the provided product data. For warranty claims, technical assistance, or further inquiries, please refer to the contact information provided with your product packaging or visit the official Walfront website.

You may also contact the seller directly through the platform where the product was purchased for support.

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Related Documents - UM34/UM34C

	<p>Comprehensive Catalog of Electronic Test Equipment, Power Supplies, and Tools</p> <p>A detailed catalog featuring a wide range of electronic test and measurement equipment, power supplies, soldering stations, microscopes, and related tools from various global manufacturers. Includes model numbers, specifications, and pricing information for easy comparison.</p>
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品名	仕様	価格	在庫	備考
電源装置	出力: 100W	¥10,000	あり	
顕微鏡	倍率: 1000倍	¥20,000	あり	
測定器	測定範囲: 0-10V	¥5,000	あり	
その他				

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部品/規格/技術ノート

1. 製品の概要と仕様

2. 使用法と注意事項

3. 故障の診断と修理

4. 関連する規格と標準

5. お問い合わせ先

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