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AOPUTTRIVER AP-570S-APP Bluetooth Clamp Meter User Manual

Model: AP-570S-APP

1. PRODUCT OVERVIEW

The AOPUTTRIVER AP-570S-APP is a portable, high-performance digital clamp meter designed for troubleshooting electrical problems. It offers a wide range of measurement functions including AC/DC voltage, AC/DC current, resistance, capacitance, frequency, temperature, diode, and continuity testing. This meter features Bluetooth connectivity for mobile phone app integration, allowing for data analysis and remote monitoring.



Image 1.1: AOPUTTRIVER AP-570S-APP Bluetooth Clamp Meter with included test leads, thermocouple, and battery.

2. SAFETY PRECAUTIONS

To ensure safe operation and prevent damage to the meter, please observe the following safety guidelines:

- Always follow the instructions provided in this manual.
- Do not attempt to measure voltages or currents exceeding the specified maximum limits.
- Ensure the test leads are properly connected and in good condition before each use.
- Do not operate the meter if it appears damaged or if the insulation is compromised.
- Remove the battery if the meter will not be used for an extended period to prevent leakage.
- Exercise extreme caution when working with live electrical circuits.
- Always disconnect power to the circuit before making resistance, capacitance, or diode measurements.

3. PRODUCT LAYOUT AND COMPONENTS

Familiarize yourself with the various parts of your AP-570S-APP clamp meter:



Image 3.1: Detailed layout of the clamp meter with labels for each component.

- **Clamp Jaws:** Opens up to 45mm to enclose conductors for current measurement.
- **NCV Detection Area:** Used for non-contact AC voltage detection.

- **Jaw-Opening Handle:** Used to open and close the clamp jaws.
- **Rotary Switch:** Selects measurement functions and ranges.
- **HOLD Key:** Press to hold the current reading. Press and hold for more than 2 seconds to activate/deactivate backlight.
- **SELECT Key:** Used to switch between functions within a rotary switch position (e.g., AC/DC, Diode/Continuity).
- **MAX/MIN Key:** Press to display maximum or minimum measured values. Press and hold for 2 seconds to exit.
- **REL Key:** Relative measurement function.
- **Hz/Duty Key:** On ACV/ACA or Hz range, press to select Frequency or Duty Cycle measurement.
- **LCD Display:** 6000 counts digital display with full function symbols.
- **COM Input Jack:** Common input for test leads.
- **VΩHzT+ Input Jack:** Input for voltage, resistance, frequency, temperature, diode, and capacitance measurements.

4. SETUP

4.1 Battery Installation

The AP-570S-APP requires 2 AAA batteries (included). To install or replace batteries:

1. Ensure the meter is powered OFF.
2. Locate the battery compartment cover on the back of the meter.
3. Use a screwdriver to open the battery compartment.
4. Insert the 2 AAA batteries, observing correct polarity (+/-).
5. Replace the battery compartment cover and secure it with the screw.

If the battery symbol flashes on the display, the battery is low and needs replacement for continued normal operation.

4.2 Bluetooth APP Connection

The meter can connect to a mobile phone via Bluetooth for data measurement and analysis using the 'AiLink' app.



Image 4.1: Visual guide for connecting the meter to the AiLink mobile application.

- Step 1: Download the App.** Scan the QR code provided in the product packaging or search for 'AiLink' in the Google Play Store (for Android) or Apple App Store (for iOS). Download and install the application. The app is compatible with iPhone 4S (iOS 7.0 and up) or Android 4.30 systems and up. You can also visit aicare.net.cn/app/ailink/download/ for direct download.
- Step 2: Connect to the Phone.** Open the 'AiLink' app. Ensure Bluetooth is enabled on your mobile device. The app should automatically pair with the clamp meter nearby. Press the 'App' button within the application to initiate the connection.
- Step 3: Start Measurement.** Once connected, you can start measurements, save data, and analyze it through the mobile app.

5. OPERATING INSTRUCTIONS

5.1 General Operation

To begin a measurement, turn the Rotary Switch to the desired function. Use the SELECT button to toggle between AC/DC modes or other sub-functions if available within that range.

5.2 Measurement Functions

The AP-570S-APP offers the following measurement capabilities:

- AC/DC Voltage:** Measure AC voltage from 6V to 750V and DC voltage from 600mV to 1000V. Connect test leads to the VΩHzT+ and COM jacks.
- AC/DC Current:** Measure AC/DC current from 600A to 1000A using the clamp jaws. Ensure the conductor is centered within the jaws.
- Resistance:** Measure resistance from 600Ω to 60MΩ. Connect test leads to the VΩHzT+ and COM jacks.
- Capacitance:** Measure capacitance from 6nF to 60mF. Connect test leads to the VΩHzT+ and COM jacks.
- Frequency:** Measure frequency from 9.999Hz to 9.999MHz. Use the Hz/Duty key to switch to frequency measurement.

- **Temperature:** Measure temperature from -20°C to 1000°C (-4°F to 1832°F) using the included thermocouple. The unit can be switched between °C and °F.



°C/°F Switchable

Clamp Meter comes with the thermocouple for water tank, Auto manual ranging switchable.



Image 5.1: Temperature measurement using the thermocouple, demonstrating the °C/°F switchable function.

- **Diode & Continuity Test:** Perform diode and audible continuity tests. Connect test leads to the VΩHzT+ and COM jacks.
- **Non-Contact AC Voltage (NCV) Detection:** Detect AC voltage without physical contact. Place the NCV detection area near the conductor. The meter will indicate voltage presence with an audible sound and light.

NON-CONTACT VOLTAGE(NCV)

can detect voltage without touching any wires and avoid electric shock .



Image 5.2: Non-Contact Voltage (NCV) detection in progress, showing the meter detecting voltage without touching wires.

5.3 Special Functions

- **Data Hold:** Press the HOLD button to freeze the current reading on the display. Press again to release.
- **Backlight:** Press and hold the HOLD button for more than 2 seconds to turn the backlight ON or OFF. This feature aids in reading measurements in dim environments.



SAFETY & PROTECTION

The amperage meter with rubber sheeve to protect your volt meter from being broken by fallen.



Image 5.3: The meter's display with backlight enabled, improving visibility in dark conditions.

- **Auto Power Off:** The meter will automatically power off after a period of inactivity to save battery life. Set the function switch to OFF when finished operating to conserve battery power.

6. MAINTENANCE

6.1 Cleaning

Wipe the meter's casing with a damp cloth and mild detergent. Do not use abrasives or solvents. Ensure the meter is completely dry before use.

6.2 Storage

When not in use, store the meter in a dry, cool place, away from direct sunlight and extreme temperatures. Remove the batteries if storing for an extended period.

7. TROUBLESHOOTING

- **Meter does not power on:** Check battery installation and ensure batteries are not depleted. Replace if necessary.

necessary.

- **Low Battery Indicator:** If the battery symbol flashes on the display, replace the batteries immediately.
- **Inaccurate Readings:** Ensure test leads are properly connected and the correct function is selected. Verify the circuit is within the meter's specified range.
- **Bluetooth App Connectivity Issues:** Ensure Bluetooth is enabled on your mobile device and the 'AiLink' app has necessary permissions (e.g., location access). Restart both the meter and the app if connection fails.
- **General Questions:** If you encounter any issues not covered here, please consult the manufacturer for assistance.

8. SPECIFICATIONS

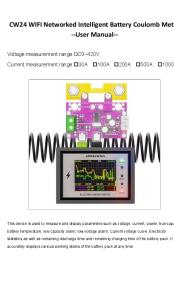
Parameter	Specification
DC Voltage	600mV – 1000V
AC Voltage	6V – 750V
DC Current	600A – 1000A
AC Current	600A – 1000A
Resistance	600Ω – 60MΩ
Capacitance	6nF – 60mF
Frequency	9.999Hz – 9.999MHz
Temperature	-20°C – 1000°C / -4°F – 1832°F
Operating Temperature	0 to 40°C (relative humidity <85%)
Storage Temperature	-10 to 50°C (relative humidity <85%)
Guaranteed Precision Temperature	23±5°C (relative humidity <70%)
Dimension	225(H)×77(W)×45(D)mm
Weight	Approx. 330g (including battery)
Power Source	2 AAA batteries
Display	6000 Counts LCD
Special Features	Bluetooth APP Connectivity, NCV, Backlight, Data Hold, Auto Ranging

9. WARRANTY AND SUPPORT

For any questions regarding the use, maintenance, or troubleshooting of your AOPUTTRIVER AP-570S-APP Bluetooth Clamp Meter, please contact AOPUTTRIVER customer support. We are committed to assisting you with any inquiries you may have.

For more information about AOPUTTRIVER products, please visit the official [AOPUTTRIVER Store](#).

Related Documents - AP-570S-APP

	<p>Intelligent Digital AC/DC Clamp Multimeter Operation Manual - 6000 Counts True-RMS Auto Range</p> <p>Comprehensive operation manual for the 6000 Counts True-RMS Auto Range Intelligent Digital AC/DC Clamp Multimeter. Covers features, specifications, operating instructions, safety precautions, and mobile app connectivity.</p>
	<p>ATORCH CW24 WIFI Networked Intelligent Battery Coulomb Meter User Manual</p> <p>Comprehensive user manual for the ATORCH CW24 WIFI Networked Intelligent Battery Coulomb Meter. Learn about its features, specifications, wiring, testing methods, app control, and more for efficient battery management.</p>
	<p>AOPUTTRIVER AP-570C-APP Bluetooth Connection Guide</p> <p>Step-by-step instructions for connecting the AOPUTTRIVER AP-570C-APP clamp meter to your smartphone via Bluetooth. Includes troubleshooting tips for a seamless setup.</p>
	<p>Coating Thickness Gauge User Manual - EC-570S</p> <p>User manual for the EC-570S Coating Thickness Gauge, detailing its features, operation, technical specifications, and FCC compliance.</p>
	<p>ATORCH GR2P Smart Din Rail Meter User Manual: Installation, Features, and App Control</p> <p>Detailed user manual for ATORCH GR2P, GR2PW, GR2PWS smart din rail meters. Learn about installation, wiring, interface, settings, electrical parameters, WiFi/Bluetooth app control with Tuya/Smart Life, and safety guidelines.</p>
<p>INSTRUCTION MANUAL</p> <p>Bluetooth 6 In 1</p>  <p>Floating Pool Monitor (pH/EC/SLT/CL/ORP/T/EMF Meter)</p>	<p>Bluetooth 6-in-1 Floating Pool Monitor Instruction Manual</p> <p>Comprehensive instruction manual for the Bluetooth 6-in-1 Floating Pool Monitor, detailing its parameters, operation, calibration, and warranty information for accurate pool water testing.</p>