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Acouto HT122A

Acouto MAYILON HT122A Pen Type Multimeter User Manual

Model: HT122A | Brand: Acouto

1. INTRODUCTION

The Acouto MAYILON HT122A Pen Type Multimeter is a portable and versatile electrical testing device designed for various measurement applications. It offers functions for DC voltage, AC voltage, resistance, and capacitance detection, making it suitable for electricians, engineers, and DIY enthusiasts. This multimeter features a compact pen-style design, an integrated emergency flashlight for low-light conditions, and a durable ABS construction.



Image: Front view of the Acouto MAYILON HT122A Pen Type Multimeter, showing the display, function buttons, and test probe tip.

2. SAFETY INFORMATION

WARNING: Read all safety warnings and instructions before using this product. Failure to follow the warnings and instructions may result in electric shock, fire, or serious injury.

- Before use, inspect the meter casing for cracks or damage. Do not use if damage is present.
- Check test leads for cracks or damage. Replace damaged leads with those of the same model and electrical specifications.
- Operate the meter according to the specified measurement category, voltage, or current ratings in this manual.
- Adhere to local and national safety regulations. Wear appropriate protective equipment (e.g., approved rubber gloves, masks, flame-retardant clothing) when working with hazardous live conductors.
- Replace batteries promptly when the low battery indicator appears to prevent measurement errors.
- Do not use the meter in environments with explosive gas or vapor, or in humid conditions.
- When using test leads, keep fingers behind the probe finger guard.

- When measuring, connect the neutral or ground wire first, then the live wire. When disconnecting, disconnect the live wire first, then the neutral and ground wires.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package. If any items are missing or damaged, contact your retailer.

- 1 x Acouto MAYILON HT122A Pen Type Multimeter
- 2 x Test Pens (Test Leads)
- 1 x User Manual (This document)



Image: The Acouto MAYILON HT122A Pen Type Multimeter shown alongside its two test leads (red and black).

4. SETUP

4.1 Battery Installation

The multimeter requires 2 x 1.5V AAA batteries (not included) for operation.

1. Locate the battery compartment cover on the back of the multimeter.
2. Use a suitable tool (e.g., a small screwdriver) to open the battery compartment.
3. Insert two 1.5V AAA batteries, ensuring correct polarity (+ and -).
4. Replace the battery compartment cover and secure it.



Image: Rear view of the multimeter, displaying the battery compartment cover and product labels.

5. OPERATING INSTRUCTIONS

This section outlines the basic operation of the Acouto MAYILON HT122A Pen Type Multimeter for various measurements.

5.1 Power On/Off

- Press the **Power button** (red button with a circle and vertical line icon) to turn the multimeter on.
- Press and hold the **Power button** to turn the multimeter off.

5.2 Function Selection

Press the **FUNC button** to cycle through different measurement modes (DC Voltage, AC Voltage, Resistance,

Capacitance).

5.3 Connecting Test Leads

Insert the red test lead into the "INPUT" terminal and the black test lead into the "COM" terminal at the bottom of the multimeter.



Image: A user holding the multimeter and test leads, performing a measurement on a circuit board.

5.4 DC Voltage Measurement

1. Turn on the multimeter.
2. Press the **FUNC** button until the DC Voltage mode is selected (indicated on the display).
3. Connect the red test lead to the positive (+) point and the black test lead to the negative (-) point of the DC circuit.
4. Read the voltage value on the display.

5.5 AC Voltage Measurement

1. Turn on the multimeter.
2. Press the **FUNC** button until the AC Voltage mode is selected.

3. Connect the test leads across the AC voltage source.
4. Read the voltage value on the display.

5.6 Resistance Measurement

1. Turn off power to the circuit or component before measuring resistance.
2. Turn on the multimeter.
3. Press the **FUNC button** until the Resistance mode is selected.
4. Connect the test leads across the component to be measured.
5. Read the resistance value in Ohms (Ω) on the display.

5.7 Capacitance Measurement

1. Ensure the capacitor is fully discharged before measurement to prevent damage to the meter.
2. Turn on the multimeter.
3. Press the **FUNC button** until the Capacitance mode is selected.
4. Connect the test leads across the capacitor terminals.
5. Read the capacitance value on the display.

5.8 Emergency Flashlight

The multimeter includes an emergency flashlight for use in low-light conditions.

- Press the **Flashlight button** (often combined with a backlight button, indicated by a lightbulb icon) to turn the flashlight on or off.

6. SPECIFICATIONS

Parameter	Value
Model	HT122A
Material	ABS
Battery	2 x 1.5V AAA battery (not included)
DC Voltage Range	4V, 40V, 400V, 600V
AC Voltage Range	4V, 40V, 400V, 600V
Resistance Range	4000 Ω , 40K Ω , 400K Ω , 4M Ω , 40M Ω
Capacitance Range	40nF, 400nF, 4 μ F, 40 μ F, 400 μ F
Item Weight	186 g
Measurement Accuracy	+/-0.5%

7. MAINTENANCE

- **Cleaning:** Wipe the meter's exterior with a damp cloth and mild detergent. Do not use abrasive cleaners or solvents. Ensure the meter is dry before storage or use.
- **Battery Replacement:** Replace batteries when the low battery indicator appears on the display. Refer to

Section 4.1 for battery installation instructions.

- **Storage:** Store the multimeter in a cool, dry place away from direct sunlight and extreme temperatures. If storing for extended periods, remove the batteries to prevent leakage.
- **Test Leads:** Regularly inspect test leads for any signs of wear, cuts, or damage. Replace damaged leads immediately with appropriate replacements.

8. TROUBLESHOOTING

This section provides general guidance for common issues. For more complex problems, contact customer support.

- **Meter does not power on:**
 - Check if batteries are installed correctly with proper polarity.
 - Replace old or depleted batteries with new 1.5V AAA batteries.
- **Inaccurate readings:**
 - Ensure test leads are securely connected to the meter and the circuit.
 - Verify that the correct measurement function is selected.
 - Check battery level; low batteries can affect accuracy.
 - Ensure the circuit or component is properly prepared for measurement (e.g., power off for resistance/capacitance).
- **Display shows "OL" (Overload):**
 - The measured value exceeds the selected range. Switch to a higher range if available, or ensure the component is within the meter's capabilities.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the contact information provided by your retailer or the manufacturer's official website. Keep your purchase receipt as proof of purchase for warranty claims.