

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

Manuals.plus /

› [CRIDENG](#) /

› CRIDENG A3006 Pen Test Multimeter Instruction Manual

CRIDENG A3006

CRIDENG A3006 Pen Test Multimeter Instruction Manual

Model: A3006

1. INTRODUCTION

The CRIDENG A3006 Pen Test Multimeter is a versatile 2-in-1 tool combining a digital multimeter and a non-contact voltage tester. It features an automatic range function, a 4000-count LCD display, and capabilities for measuring AC/DC voltage, resistance, capacitance, and frequency. This manual provides detailed instructions for safe and effective use of the device.

2. PACKAGE CONTENTS

Verify that all items listed below are present in your package:

- 1 x CRIDENG A3006 Pen Multimeter
- 1 x Test Leads
- 1 x Instruction Manual

Product Details



Image: The CRIDENG A3006 Pen Test Multimeter shown with its included test leads and removable pen tip.

3. PRODUCT OVERVIEW

Familiarize yourself with the components of your CRIDENG A3006 Pen Test Multimeter:

- **Humanized Pen Holder:** For convenient carrying and storage.
- **LCD Screen Display:** Shows measurement readings and function indicators.
- **LED Prompt Light:** Indicates live wire detection and NCV alerts.
- **Flashlight Lamp:** Provides illumination in dim environments.
- **Positive Watch Pen/Removable Replacement Nib:** The primary test probe.
- **COM Negative Meter Pen Jack:** Connection point for the negative test lead.
- **Buttons:** Power/Function Toggle, Data Hold/Flashlight, NCV Sensing/Zero Firewire.



Image: Labeled diagram highlighting the key components of the CRIDENG A3006 Pen Test Multimeter, including the LCD screen, buttons, and pen holder.



Image: Technical drawing showing the dimensions of the CRIDENG A3006 Pen Test Multimeter: 190mm (7.48 inches) length, 28.7mm (1.12 inches) width, and 27.7mm (1 inch) thickness.

4. SETUP

4.1 Battery Installation

The multimeter requires two AAA (No. 7) batteries for operation. To install or replace batteries:

1. Locate the battery compartment cover on the back of the device.
2. Open the cover.
3. Insert two AAA batteries, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

4.2 Connecting Test Leads

For measurements requiring test leads:

1. Insert the black test lead into the COM (negative) jack at the bottom of the multimeter.
2. Insert the red test lead into the positive jack (usually the removable pen tip).

5. OPERATING INSTRUCTIONS

5.1 Power On/Off and Function Selection

- **Power On/Off:** Long press the **On/Off** button.
- **Toggle Function:** Single press the **On/Off** button to cycle through measurement modes (e.g., Voltage, Resistance, Capacitance).

5.2 Data Hold and Flashlight

- **Data Hold:** Single press the **HOLD** button to freeze the current reading on the display. Press again to release.
- **Flashlight:** Long press the **HOLD** button to turn the flashlight on or off.

5.3 Measurement Functions

The A3006 features automatic ranging, simplifying measurements.

- **AC/DC Voltage Measurement:** Select the voltage mode. Connect the test leads in parallel to the circuit or component. The device will automatically detect AC or DC voltage.
- **Resistance Measurement:** Select resistance mode. Ensure the circuit is de-energized. Connect test leads across the component to measure resistance.
- **Capacitance Measurement:** Select capacitance mode. Ensure the capacitor is discharged before connecting test leads.
- **Frequency Measurement:** Select frequency mode. Connect test leads to the signal source.
- **Diode Test:** Select diode mode. Connect test leads across the diode to check its forward voltage drop.
- **Continuity Test (On-off buzzer):** Select continuity mode. Touch the test leads to the points to be tested. A buzzer will sound if continuity exists (low resistance).

5.4 Special Features

- **Neutral and Live Wire Identification:** Single press the **N/L** button. Insert the test pen into a socket hole. A red indicator light will flash and a buzzer will alarm if it detects a live wire.



Image: The CRIDENG A3006 Pen Test Multimeter demonstrating live wire identification. The device beeps and flashes red when inserted into the live socket, while remaining silent for the neutral socket.

- **Non-Contact Voltage (NCV) Induction:** Long press the **N/L** button to activate NCV mode. Move the pen tip near a wire or electrical component. The device will detect AC voltage without direct contact, indicated by a flashing red light and buzzer alarm. This feature is useful for line breakpoint searching; the connected position will flash red and alarm, while the unlit position indicates a line disconnection point.



NCV inductive electricity

Line breakpoint search Detection along the live line, the connected position has been flashing red and there is a buzzer alarm, the unlit position is the line break point

Image: The CRIDENG A3006 Pen Test Multimeter detecting NCV inductive electricity. The device is shown near a live wire, indicating detection with a red light and buzzer, and identifying a breakpoint where the signal stops.

- **Auto Shutdown:** The multimeter will automatically shut down after 15 minutes of inactivity to conserve battery life.
- **Backlight Screen:** The LCD screen features a backlight for improved visibility in low-light conditions.
- **Low Battery Symbol:** An indicator will appear on the display when the battery level is low, signaling the need for replacement.

6. MAINTENANCE

6.1 Cleaning

Wipe the device with a dry, soft cloth. Do not use abrasive cleaners or solvents.

6.2 Removable Pen Tip

The positive pen tip is removable and silver-plated for durability. It can be rotated out and replaced if necessary. Always ensure the cap protection is used when not in use.



Image: A close-up view of the CRIDENG A3006 Pen Test Multimeter's removable pen tip, showing it detached from the main unit.

6.3 Battery Replacement

Replace batteries when the low battery symbol appears on the display. Refer to section 4.1 for battery installation instructions.

7. TROUBLESHOOTING

- **No Display:** Check battery installation and ensure batteries are not depleted. Replace if necessary.
- **Inaccurate Readings:** Ensure test leads are properly connected. Verify the correct measurement mode is selected. Check for external interference.
- **No NCV/Live Wire Detection:** Ensure the feature is activated correctly (long/single press N/L button). Check battery level.

8. SPECIFICATIONS

Parameter	Value
Model	A3006
AC Voltage Range	0.8V - 600V

Parameter	Value
DC Voltage Range	0.8V - 600V
Resistance Range	0.1Ω - 40MΩ
Capacitance Range	0.01nF - 4mF
Frequency Range	10Hz - 10MHz
Diode Test	Yes
Continuity Buzzer	Yes
Neutral/Live Wire Detection	Yes
NCV Induction Electricity	Yes
Data Retention	Yes
Backlight Screen	Yes
Flashlight Lighting	Yes
Low Battery Symbol	Yes
Auto Shutdown	After 15 minutes of no use
Maximum Count	4000 counts
Probe Material	PVC/Brass
Probe Length	93cm (36.6 inches)
Battery Type	2 x AAA (No. 7) batteries
Dimensions (L x W x H)	190 x 28.7 x 27.7 mm (7.48 x 1.12 x 1 inch)
Weight	116 Grams
Minimum Operating Voltage	0.8 Volts

9. SAFETY INFORMATION

Always observe basic safety precautions when using electrical testing equipment:

- Do not use the device if it appears damaged or is operating abnormally.
- Do not apply voltage or current that exceeds the maximum specified limits.
- Exercise extreme caution when working with live circuits.
- Ensure your hands are dry and you are standing on an insulated surface.
- Always disconnect power to a circuit before measuring resistance or capacitance.
- Replace batteries promptly when the low battery indicator appears.

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided at the point of purchase or contact the retailer/manufacturer directly. Keep your purchase receipt as proof of purchase.