

[Manuals.plus](#) /

› [Assark](#) /

› Assark 2000 Counts Digital Multimeter Instruction Manual

Assark

Assark Digital Multimeter 620A

Instruction Manual



Image: The Assark 620A Digital Multimeter, showing the device itself, red and black test leads, and two AAA batteries.

1. PRODUCT OVERVIEW

The Assark 620A Digital Multimeter is a compact and versatile tool designed for measuring various electrical parameters. It is suitable for technicians, hobbyists, and DIY enthusiasts for troubleshooting home, automotive, and industrial electrical issues.

- Measures AC/DC voltage, DC current, resistance, continuity, diode, and battery levels.
- Features a bright backlit LCD display for clear readings in various lighting conditions.
- Equipped with a data hold function to freeze readings for convenient recording.
- Designed with safety in mind, including overload protection and a durable rubber cover.



Image: The compact size of the Assark 620A Digital Multimeter, fitting comfortably in the palm of a hand.

2. WHAT'S IN THE BOX

Your Assark Digital Multimeter package includes the following items:

- 1 x Assark 620A Digital Multimeter
- 1 x Pair of Probe Test Leads
- 2 x 1.5V AAA Batteries
- 1 x User Manual



Image: A visual representation of all items included in the Assark Digital Multimeter package.

3. PRODUCT COMPONENTS

Familiarize yourself with the key components of your Assark 620A Digital Multimeter:



Image: A detailed diagram highlighting the various parts of the multimeter, including the LCD, buttons, and input terminals.

- **2000-Count LCD:** Digital display for measurement readings.
- **Backlight Button:** Activates or deactivates the display backlight.
- **Data Hold Button:** Freezes the current reading on the display.
- **Function/Range Selection Switch:** Rotary switch to select the desired measurement mode (e.g., Voltage, Resistance, Current, Diode, Continuity, Battery).
- **"10A" Input Terminal:** Used for measuring DC currents up to 10 Amperes.
- **"VΩmA" Input Terminal:** Used for measuring voltage, resistance, and milliampere/microampere currents.
- **"COM" Jack:** Common terminal, always connected to the black test lead.

4. SETUP AND BATTERY INSTALLATION

Before using your multimeter, you need to install the included AAA batteries.

1. Ensure the multimeter is turned **OFF**.
2. Locate the battery compartment on the back of the multimeter.
3. Use a screwdriver to open the battery compartment cover.
4. Insert the two 1.5V AAA batteries, observing the correct polarity (+ and -) as indicated inside the compartment.
5. Replace the battery compartment cover and secure it with the screw.

Connecting Test Leads:

- Insert the black test lead into the **COM** (Common) jack.
- For most measurements (voltage, resistance, diode, continuity, small currents), insert the red test lead into the **VΩmA** jack.
- For measuring large DC currents (up to 10A), insert the red test lead into the **10A** jack.

5. OPERATING INSTRUCTIONS

This section details how to use your multimeter for various measurements.

General Operation

- **Power On/Off:** Rotate the Function/Range Selection Switch from OFF to any desired measurement function to turn on the multimeter. Rotate back to OFF to turn it off.
- **Backlight:** Press the **Backlight Button** (sun icon) to illuminate the LCD display for better visibility in low-light conditions. Press again to turn off.
- **Data Hold:** Press the **HOLD Button** to freeze the current reading on the display. This is useful when taking measurements in hard-to-reach areas. Press again to release the hold.



Image: The bright backlit LCD display of the multimeter, ensuring clear readings even in dim environments.

Measurement Modes

Always ensure the correct test lead connections and select the appropriate function on the rotary switch before taking measurements.

AC/DC Voltage Measurement (V~ / V--)

1. Connect the black lead to COM and the red lead to VΩmA.
2. Rotate the switch to the desired AC Voltage (V~) or DC Voltage (V--) range.
3. Connect the test probes across the component or circuit to be measured.



DC VOLTAGE MEASUREMENT

Accuracy:

200mV/2V/20V/200V $\pm (0.5\% + 2)$;
600V $\pm (0.8\% + 2)$



AC VOLTAGE MEASUREMENT

Accuracy:

200V/600V $\pm (1.2\% + 10)$



Image: Demonstrates measuring DC voltage from a 9V battery and AC voltage from a power strip.

DC Current Measurement (A--)

1. Connect the black lead to COM.
2. For currents up to 200mA, connect the red lead to VΩmA. For currents up to 10A, connect the red lead to 10A.
3. Rotate the switch to the appropriate DC Current (A--) range.
4. Connect the multimeter in series with the circuit to measure current.

Note: This meter cannot test AC Current.

Resistance Measurement (Ω)

1. Connect the black lead to COM and the red lead to V Ω mA.
2. Rotate the switch to the desired Resistance (Ω) range.
3. Ensure the circuit is de-energized before connecting the probes across the resistor or component.



CONTINUITY TEST



DIODE TEST

Image: Shows the multimeter performing resistance, continuity, and diode tests.

Continuity Test (speaker icon)

1. Connect the black lead to COM and the red lead to V Ω mA.
2. Rotate the switch to the Continuity (speaker icon) position.

3. Touch the probes to the two points you want to test. A continuous beep indicates a good connection (low resistance).

Diode Test (diode icon)

1. Connect the black lead to COM and the red lead to VΩmA.
2. Rotate the switch to the Diode (diode icon) position.
3. Connect the red probe to the anode and the black probe to the cathode of the diode. The display will show the forward voltage drop. Reverse the probes to check for open circuit (OL) in reverse bias.

Battery Check (BATT)

1. Connect the black lead to COM and the red lead to VΩmA.
2. Rotate the switch to the BATT position (1.5V or 9V).
3. Connect the red probe to the positive terminal and the black probe to the negative terminal of the battery. The display will show the battery voltage.

Instructional Videos

Watch these official videos for visual guidance on using your Assark Digital Multimeter.

2000 Counts Multimeter Digital Multimeter Overview

Your browser does not support the video tag.

Video: A comprehensive overview demonstrating the features and basic operation of the Assark 2000 Counts Digital Multimeter.

2000 Counts Digital Multimeter Multi-meters in Use

Your browser does not support the video tag.

Video: Shows the multimeter in action, performing various measurements and highlighting its ease of use.

Digital Multimeter, Ohm Voltage Meter 2000 Counts Demonstration

Your browser does not support the video tag.

Video: A demonstration of the multimeter's capabilities, focusing on Ohm and voltage measurements.

6. SAFETY INFORMATION

Your Assark Digital Multimeter is designed with safety features. Always adhere to safety precautions when working with electrical circuits.

- **Overload Protection:** The multimeter features two built-in fuses (250mA, 250V and 10A, 250V) to provide overload protection across all ranges. This helps prevent damage to the meter in case of accidental overcurrent.
- **Rubber Holster:** The thick rubber cover provides good electrical insulation and absorbs impact, enhancing the durability and safety of the device.
- Always disconnect power to the circuit before making resistance, continuity, or diode measurements.
- Do not attempt to measure voltages or currents exceeding the specified maximum ratings of the multimeter.
- Ensure test leads are in good condition and properly connected before use.



Image: An illustration showing the internal fuses of the multimeter, which provide overload protection.

7. TROUBLESHOOTING

Here are some common issues and their solutions:

Problem	Indication	Solution
Over Range	Display shows "OL"	The measured value exceeds the selected range. Rotate the switch to a higher range or a different function.
Negative Polarity	Display shows a "-" sign	The test leads are connected with reversed polarity. This is normal for DC measurements; simply note the negative sign.
Low Battery	Battery icon appears on display	The batteries are low. Replace the two 1.5V AAA batteries immediately to ensure accurate readings.
No Display/No Power	Screen is blank when turned on	Check battery installation and ensure batteries are not depleted. Verify the rotary switch is not in the OFF position.

8. SPECIFICATIONS

Attribute	Detail
Model Number	620A
Brand	Assark
Product Dimensions	3.94 x 1.97 x 1.1 inches
Item Weight	0.18 Kilograms (6.35 ounces)
Power Source	Battery Powered (2 x 1.5V AAA batteries)

Attribute	Detail
Display	2000 Counts LCD with Backlight
Manufacturer	Assark
Country of Origin	China

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided in the original product packaging or visit the official Assark website. Keep your purchase receipt as proof of purchase for any warranty claims.
For additional resources and product information, you may visit the [Assark Store on Amazon](#).

© 2024 Assark. All rights reserved.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Answered questions about this manual

Why is my Assark 620A Digital Multimeter showing only zeros when testing a 9V battery, even though the screen lights up?
If your Assark 620A Digital Multimeter powers on but shows only zeros when testing a battery, please check the following troubleshooting steps:Check Test Lead Placement: Ensure the black lead is plugged into the COM...

[Read full answer](#)