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ANENG 613

ANENG 613 Digital Multimeter Tester

INSTRUCTION MANUAL

Product Overview

The ANENG 613 Digital Multimeter is a high-performance, auto-ranging True RMS multimeter designed for accurate measurements across various electrical parameters. Its large LCD display ensures clear readability, and its compact design makes it highly portable. Unique features include a perpetual calendar, alarm clock, and real-time temperature and humidity monitoring, making it a versatile tool for both professional and DIY applications.



Figure 1: ANENG 613 Digital Multimeter and its comprehensive accessory kit.

Setup

Battery Installation

The ANENG 613 multimeter requires two AAA batteries for operation. To install, remove the back battery compartment cover, insert the batteries according to the polarity markings, and replace the cover securely.



Figure 2: Proper battery installation for the multimeter.

Initial Setup (Date, Time, Units)

After battery installation, press the buttons on the back of the device to set the correct date and time. The multimeter also allows for unit adjustments (e.g., Celsius/Fahrenheit for temperature).

Video 1: Demonstrates battery installation and initial date/time setup.

Operating Modes

The ANENG 613 features an auto-ranging mode that automatically selects the correct measurement range for most tasks. You can also manually select specific modes as needed.



Figure 3: Overview of the multimeter's measurement capabilities.

Voltage Measurement (AC/DC)

Connect the test leads to the appropriate input jacks (red to VΩHz, black to COM). The multimeter will automatically detect AC or DC voltage. For household AC voltage, the general reading is around 220V.



Figure 4: Example of AC voltage measurement.

Current Measurement (AC/DC)

To measure current, switch to the corresponding gear and connect the test leads in series with the circuit as shown in the video. Ensure correct polarity for DC current.

Video 2: Detailed demonstration of various measurement functions including current, voltage, resistance, and more.

Resistance Measurement

Switch to the resistance mode. Connect the test leads across the component to measure its resistance. The stylus can contact both ends of the resistance.

Diode and Continuity Test

For diode testing, connect the test leads across the diode. For continuity, a beep indicates a normal and unobstructed circuit, while a silent sound indicates damage or an open circuit.

Capacitance Measurement

Before testing capacitors, ensure they are fully discharged to avoid damage to the multimeter. Connect the test leads across the capacitor terminals.

Frequency Measurement

Switch to the frequency mode and connect the test leads to the circuit where you want to measure frequency.

Additional Features

Perpetual Calendar and Alarm Clock

The multimeter includes a perpetual calendar and an alarm clock function. You can set the alarm time, and a reminder will be issued when the time is up.



Figure 5: Calendar, alarm, temperature, and humidity display.

Temperature and Humidity Display

The device provides real-time display of temperature and humidity, allowing you to monitor environmental changes. This is particularly useful for sensitive electronic work or maintaining optimal conditions in a workspace.

Maintenance

Battery Replacement

When the low battery indicator appears on the display, replace the AAA batteries promptly to ensure accurate readings and continuous operation.

Cleaning and Storage

Clean the multimeter with a soft, dry cloth. Avoid using abrasive cleaners or solvents. Store the device in its provided storage bag in a cool, dry place away from direct sunlight and extreme temperatures.

Troubleshooting

Power Button Not Responding

If the power button does not respond, first check if the batteries are correctly installed and have sufficient charge. Replace batteries if necessary. If the issue persists, contact customer support.

Inaccurate Readings

Ensure test leads are properly connected and not damaged. Verify that the correct measurement mode is selected. If using auto-ranging, try manually selecting a range. Low battery can also affect accuracy.

Specifications

Feature	Specification
Product Dimensions	1.97 x 1.97 x 0.79 inches
Item Model Number	613
Weight	0.02 ounces (0.6 Grams)
Brand	ANENG
Power Source	Battery Powered (2x AAA)
Display Type	Large LCD with Backlight
Counts	4000
True RMS	Yes
Special Features	Perpetual Calendar, Alarm Clock, Temperature, Humidity

What's in the Box?

- 1x ANENG 613 Digital Multimeter Tester
- 1x Electrical Tester Kit (4x connection socket, 2x PVC cable, 2x copper needle, 2x U-shaped insert, 2x meter pen, 2x alligator clips)
- 1x Multimeter Test Lead
- 2x 1.5V AAA Batteries
- 1x Instruction Manual
- 1x Storage Bag

Warranty and Support

ANENG provides service and technical support for this product. For any issues or inquiries, please refer to the contact information provided in the included instruction manual or visit the official ANENG website. The product comes with a standard 30-day refund/replacement return policy.