

ANENG A3005

ANENG A3005 Digital Pen-Type Multimeter User Manual

Model: A3005 | Brand: ANENG

1. INTRODUCTION

The ANENG A3005 Pen-Type Digital Multimeter is a professional, auto-ranging measurement device designed for electrical testing and maintenance. This manual provides detailed instructions for safe and effective operation of your multimeter.

2. SAFETY INFORMATION

Always observe basic safety precautions when using this multimeter to avoid personal injury or damage to the device. Read all instructions carefully before use.

General Safety Precautions:

- Do not exceed the maximum input values for any function.
- Do not use the device if it appears damaged or if the insulation is compromised.
- Exercise extreme caution when working with voltages above 30V AC RMS, 42V peak, or 60V DC. These voltages pose a shock hazard.
- Always disconnect the test leads from the circuit before changing functions.
- Ensure the battery cover is securely closed before operation.
- Do not operate the meter in explosive gas, vapor, or dust environments.

3. PACKAGE CONTENTS

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

- 1 x ANENG A3005 Pen-Type Digital Multimeter
- 1 x Test Lead
- 2 x AAA 1.5V Batteries
- 1 x User Manual



Image: Contents of the ANENG A3005 package, showing the multimeter, test lead, and batteries.

4. PRODUCT OVERVIEW

The ANENG A3005 is a versatile pen-type multimeter designed for ease of use and portability. It combines multiple measurement functions in a compact form factor.

Key Features:

- Automatic Range Detection
- Measures AC/DC Voltage, Resistance, Continuity, Frequency, Diode
- Non-Contact Voltage (NCV) Detection
- Live Wire Detection
- Built-in Flashlight for low-light conditions
- VA Screen for clear readings
- Data Hold Function
- Automatic Power Off for energy saving
- Compact and Portable Design with Pen Clip

Pen-type multimeter



Image: Overview of the ANENG A3005's various functions and features.

Multimeter + tester=Multi-function A3005 Stiftmultimeter

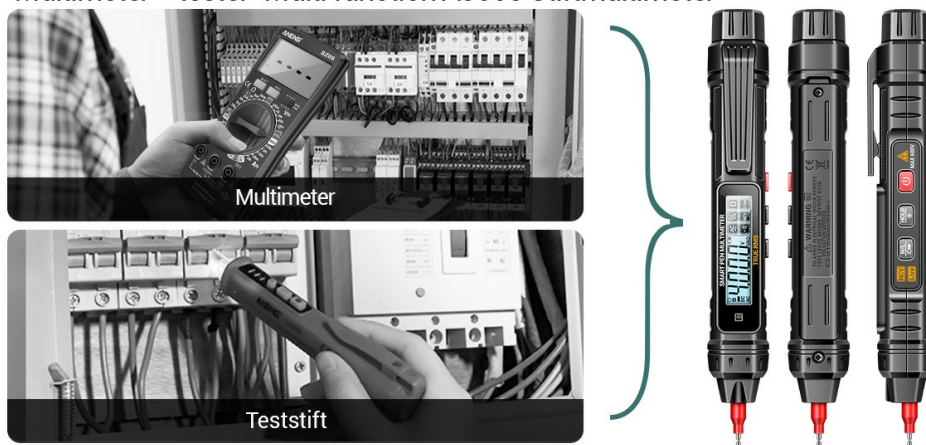


Image: The ANENG A3005 combines the functions of a traditional multimeter and a test pencil.

5. SETUP

5.1 Battery Installation

The ANENG A3005 requires two AAA 1.5V batteries for operation. Follow these steps to install them:

1. Locate the battery compartment cover on the back of the multimeter.
2. Slide the cover open or remove any screws securing it.
3. Insert the two AAA batteries, ensuring correct polarity (+ and -) as indicated inside the compartment.
4. Replace the battery compartment cover and secure it.

Portable and Compact Two AAA batteries



Image: Proper installation of AAA batteries into the multimeter's compartment.



Image: The battery compartment with batteries installed.

5.2 Connecting Test Leads

Connect the black test lead to the COM (common) input jack on the multimeter. The red test lead is integrated into the pen-type design.



Image: Connecting the black test lead to the multimeter.

6. OPERATING INSTRUCTIONS

The ANENG A3005 features automatic range detection, simplifying measurements. Press the power button to turn the device on.



Image: The ANENG A3005 in use, performing an electrical measurement.

6.1 Measurement Functions:

- **AC/DC Voltage Measurement:** The multimeter automatically detects AC or DC voltage. Connect the test leads across the circuit or component to measure voltage. The display will show the measured value.
- **Resistance Measurement:** To measure resistance, ensure the circuit is de-energized. Connect the test leads across the resistor or component. The multimeter will display the resistance value in Ohms (Ω).
- **Continuity Test:** For continuity, the multimeter will emit an audible beep if the resistance is below a certain threshold, indicating a continuous path.
- **Diode Test:** Use this function to test diodes. The multimeter will display the forward voltage drop of the diode.
- **Non-Contact Voltage (NCV) Detection:** Hold the tip of the multimeter near an AC voltage source without direct contact. The device will indicate the presence of voltage through an audible alarm and visual indicator.



Image: Using the NCV function to detect voltage without contact.

- **Live Wire Detection:** Insert the red probe into the live wire. The multimeter will indicate if the wire is live.

6.2 Additional Functions:

- **Flashlight:** Press the dedicated flashlight button to illuminate the work area. This is particularly useful

in dark environments.

Bright flashlight lighting

Not afraid of night and darkness



Image: The multimeter's flashlight in operation.



Image: The flashlight providing illumination.

- **Data Hold:** Press the HOLD button to freeze the current reading on the display. Press it again to release.
- **Auto Power Off:** The multimeter will automatically power off after approximately 5 minutes of inactivity to conserve battery life.

MEHRERE TESTS

Kann eine Vielzahl von elektronischen Komponenten messen, um Ihre Anforderungen an Multifunktion zu erfüllen



MESSUNG DER WECHSELSPANNUNG

AUTO erkennt automatisch Wechselspannung und misst gängige Wechselspannung



MESSUNG DES SUMMERS

AUTO erkennt automatisch den Summier, die Kontrollleuchte blinkt rot und piept, was anzeigt, dass das Kabel glatt ist



NCV BERÜHRUNGSLOSE INDUKTION

Beim Umschalten auf NCV-Gang und Erkennung von Wechselspannung blinkt die Kontrollleuchte rot und piept



MESSUNG DER GLEICHSPANNUNG

AUTO erkennt automatisch Gleichspannung und misst 1,5 V Batterie



MESSUNG DES WIDERSTANDS

AUTO erkennt automatisch den Widerstand und kontaktiert den Widerstand mit der Sonde



FIREWIRE

Im LIVE-Modus leuchtet die Anzeige rot, das Display zeigt '---H an und der Piepton ist schnell



NULL LINE

Führen Sie im LIVE-Modus ein weiteres Loch ein, und das Display zeigt LIVE ohne Piepton an

Image: Demonstrations of multiple test functions.

7. MAINTENANCE

7.1 Cleaning:

Wipe the case with a damp cloth and mild detergent. Do not use abrasives or solvents. Keep the input terminals free of dirt or moisture.

7.2 Battery Replacement:

When the low battery indicator appears on the display, replace the batteries promptly to ensure accurate readings. Refer to section 5.1 for battery installation instructions.

7.3 Storage:

If the multimeter is not used for an extended period, remove the batteries to prevent leakage and damage to the device. Store the multimeter in a cool, dry place.



Image: The removable probe tip for maintenance or replacement.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Meter does not power on.	Dead or incorrectly installed batteries.	Check battery polarity or replace batteries.

Problem	Possible Cause	Solution
Inaccurate readings.	Low battery; incorrect function selected; environmental interference.	Replace batteries; ensure correct function is automatically selected; move away from strong electromagnetic fields.
No continuity beep.	Open circuit; high resistance.	Verify circuit integrity; check for breaks or high resistance points.

9. SPECIFICATIONS

Technical specifications for the ANENG A3005 Digital Pen-Type Multimeter:

Function	Range	Resolution	Accuracy
AC Voltage	0.8V-600V	1mV	±(1.2%+5)
DC Voltage	0.8V-600V	1mV	±(1.0%+5)
Resistance	0.1Ω-40MΩ	1Ω	±(1.2%+3)
NCV Induction	✓	N/A	N/A
Live-Null Line	✓	N/A	N/A
Buzzer	✓	N/A	N/A

Other Specifications:

- **Display:** VA Screen, 4000 Counts
- **Power:** 2 x AAA 1.5V Batteries (included)
- **Dimensions:** 19.7 x 6 x 3.2 cm (approx.)
- **Weight:** 130 grams (approx.)
- **Auto Power Off:** Approx. 5 minutes of inactivity
- **Manufacturer:** ANENG
- **Country of Origin:** China

Produktspezifikationen:

Funktion	Bereich	Auflösung	Präzision
Wechselspannung	0.8V-600V	1mV	±(1.2%+5)
Gleichspannung	0.8V-600V	1mV	±(1.0%+5)
Widerstand	0.1Ω~40MΩ	1Ω	±(1.2%+3)
NCV-Induktion		✓	
Live-Nulllinie		✓	
Summer		✓	

- ①.Schwarzes Testkabel COM-Anschluss
- ②.Stifthalter-Design ③.Netzschalter
- ④.Einmaliges Drücken: Schalter für den hintergrundbeleuchteten Bildschirm; langes Drücken: Datenspeicherung
- ⑤.Einmaliges Drücken: NCV / Live / ATUO-Funktionsschalter /;
- ⑥.LCD-Bildschirm ⑦.Kontrollleuchte
- ⑧.Taschenlampe ⑨.Positiver Prüfkopf
- ⑩.Kieselsäure-Schale
- ⑪.Schutzhülle für Stiftspitze



Image: Detailed product specifications and labeled parts diagram.

10. WARRANTY AND SUPPORT

ANENG provides lifetime service and technical support for this product. For any inquiries, technical assistance, or warranty claims, please contact ANENG customer service through the retailer or official channels.

Please retain your purchase receipt as proof of purchase for warranty purposes.