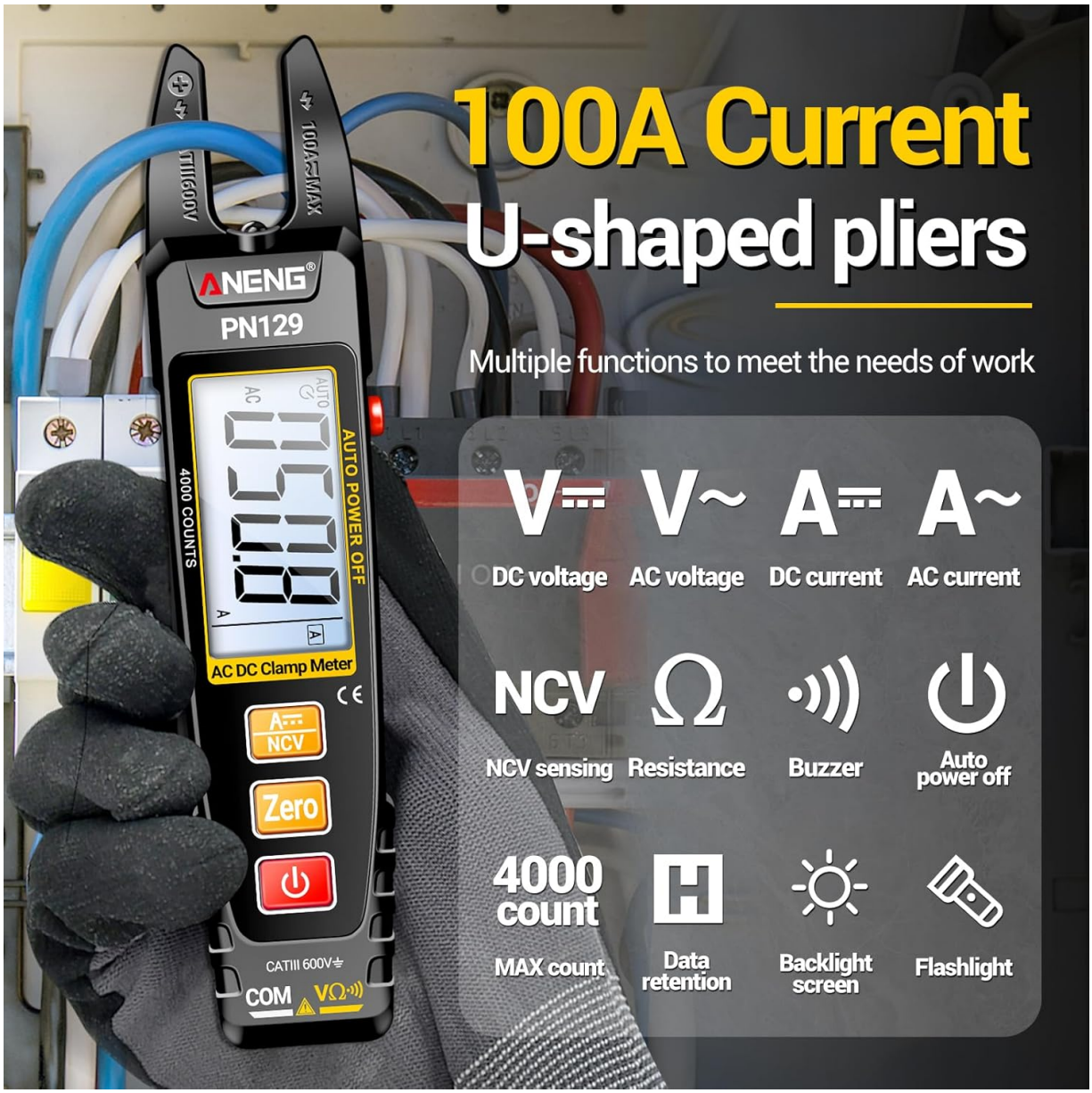
ANENG PN129(Normal Version with Test Kit)

ANENG PN129 Clamp Meter Multimeter User Manual

TRMS 4000 Counts with U-Shaped Jaw

1. Introduction

The ANENG PN129 Clamp Meter Multimeter is a versatile and high-precision tool designed for efficient electrical measurement and troubleshooting. Featuring a unique U-shaped jaw, it allows for quick and safe measurements without disconnecting wires. This manual provides comprehensive instructions for its setup, operation, and maintenance.

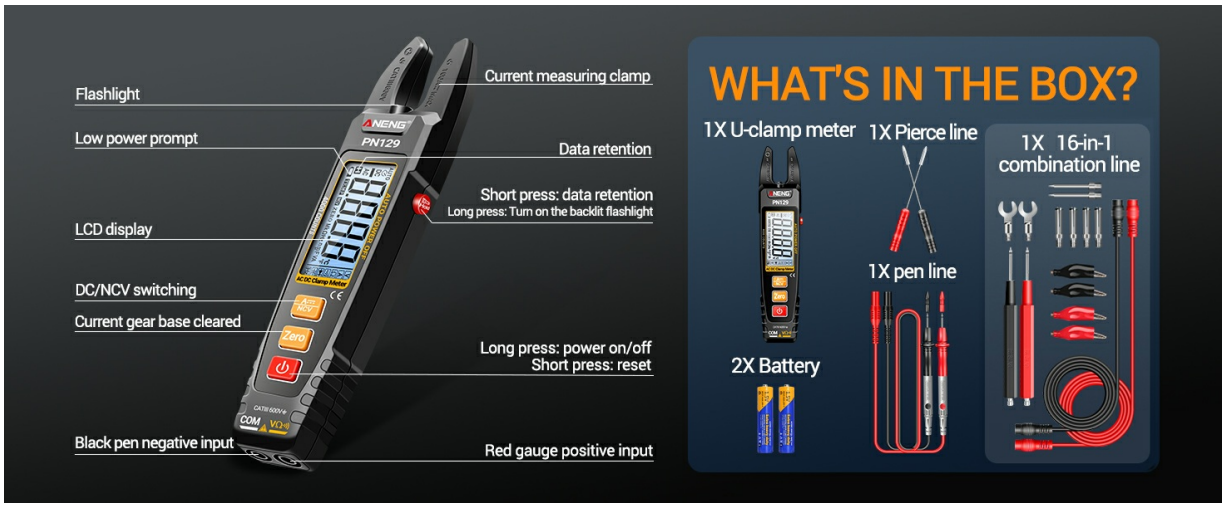


The ANENG PN129 Clamp Meter showcasing its primary functions and U-shaped design.

2. What's in the Box

Your ANENG PN129 package includes the following components:

- 1 x ANENG PN129 Clamp Meter
- 2 x AAA Batteries
- 1 x Multimeter Kit (4 x connection sockets, 2 x PVC cables, 2 x copper needles, 2 x U-shaped inserts, 2 x meter pens, 2 x alligator clips, 2 x puncture needles)
- 1 x Multimeter Test Lead
- 1 x Instruction Manual
- 1 x Storage Bag



All components included with the ANENG PN129 Clamp Meter.

3. Setup

3.1 Battery Installation

To power on your ANENG PN129, you need to install two AAA batteries:

1. Locate the battery compartment cover on the back of the device.
2. Remove the cover by sliding it off or unscrewing if applicable.
3. Insert two AAA batteries, ensuring correct polarity (+/-).
4. Replace the battery compartment cover securely.

Demonstration of battery installation for the ANENG PN129 Clamp Meter (Video segment: 0:12-0:18).

4. Operating Instructions

The ANENG PN129 offers various measurement functions. Ensure the test leads are properly connected to the corresponding ports (red to positive, black to common) for voltage, resistance, and continuity measurements.

4.1 DC Current Measurement

The U-shaped jaw allows for non-contact DC current measurement. Current and capacitance gears can be cleared to zero before measurement for accuracy.

- Switch the meter to the DC current gear.
- Use the pliers to clamp around a single strand of the wire you wish to measure.
- Read the DC current value displayed on the screen.

Demonstration of DC current measurement using the ANENG PN129 (Video segment: 0:19-0:42).

4.2 AC Current Measurement

Similar to DC current, AC current can be measured non-contact using the U-shaped jaw.

- After booting, the meter defaults to AC current measurement.
- Simply clamp the U-shaped jaw around a single live wire to measure AC current.

Demonstration of AC current measurement using the ANENG PN129 (Video segment: 0:42-0:48).

4.3 NCV (Non-Contact Voltage) Induction

The NCV function allows for quick and safe detection of voltage without direct contact, enhancing user safety.

- Press and hold the SELECT button to choose the NCV function.
- Bring the clamp head close to the wire or circuit you want to test.
- The meter will emit a beep when it detects an electromagnetic field, indicating the presence of voltage.

Demonstration of NCV induction using the ANENG PN129, including flashlight lighting for dim environments (Video segment: 0:48-0:57).

4.4 DC Voltage Measurement

The meter automatically identifies the voltage gear when test leads are connected.

- Connect the watch pen (test leads) to the corresponding ports on the meter.
- Touch both ends of the battery or DC source with the test leads.
- The meter will display the DC voltage.

Demonstration of DC voltage measurement using the ANENG PN129 (Video segment: 1:01-1:12).

4.5 AC Voltage Measurement

The meter automatically identifies the voltage gear for AC voltage measurements.

- Connect the test leads to the meter.
- Insert the test leads into the AC outlet or touch the AC source.
- The meter will display the AC voltage. Household AC voltage is typically around 220V.

Demonstration of AC voltage measurement using the ANENG PN129 (Video segment: 1:13-1:23).

4.6 Resistance Measurement

The meter automatically identifies the resistance gear.

- Connect the test leads to the meter.
- Contact both ends of the resistor or circuit component with the test leads.
- The meter will display the resistance value.

Demonstration of resistance measurement using the ANENG PN129 (Video segment: 1:24-1:42).

4.7 Continuity (Buzzer) Test

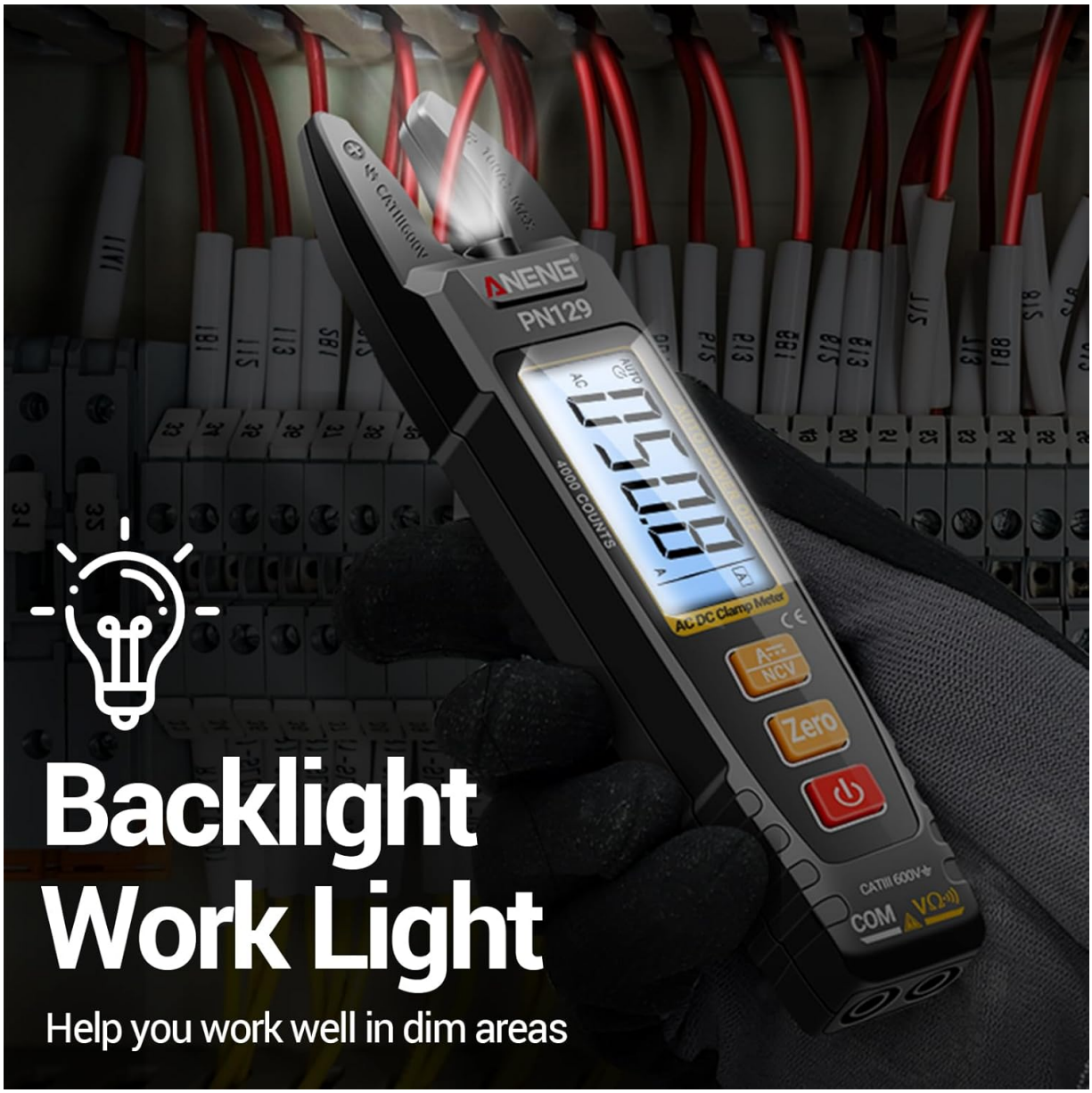
The meter automatically identifies the buzzer gear for continuity testing.

- Connect the test leads to the meter.
- Touch the test leads to the two points you want to check for continuity.
- If there is continuity, the meter will issue a beep, indicating normal patency.

Demonstration of continuity test using the ANENG PN129 (Video segment: 1:43-1:59).

4.8 Additional Features

- **Data Hold:** Short press the 'Hold' button to retain the current measurement on the display.
- **Auto Power Off:** The meter features an automatic shutdown after 15 minutes of inactivity to conserve battery life.
- **Backlight & Flashlight:** Long press the 'Hold' button to turn on the backlight and flashlight, aiding work in dim areas.



The backlight and work light feature of the ANENG PN129 for improved visibility.

5. Maintenance

To ensure the longevity and accuracy of your ANENG PN129 Clamp Meter, follow these maintenance guidelines:

- **Cleaning:** Wipe the meter with a dry, soft cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures. If storing for extended periods, remove the batteries to prevent leakage.
- **Battery Replacement:** Replace batteries promptly when the low battery indicator appears to ensure accurate readings and proper operation.
- **Avoid Drops:** While designed for durability, avoid dropping the meter to prevent internal damage.

6. Troubleshooting

If you encounter issues with your ANENG PN129, consider the following common solutions:

- **No Power:** Check if the batteries are installed correctly and have sufficient charge. Replace them if necessary.

- **Inaccurate Readings:** Ensure test leads are properly connected and not damaged. Verify that the correct measurement mode is selected. For current measurements, ensure only a single wire is within the U-shaped jaw.
- **No NCV Detection:** Confirm the NCV function is activated. Ensure the meter is brought close enough to the voltage source.
- **Display Issues:** If the display is dim or flickering, replace the batteries.

For persistent issues, contact customer support.

7. Specifications

Feature	Specification
Brand	ANENG
Model	PN129(Normal Version with Test Kit)
Product Dimensions	1.97 x 0.79 x 1.97 inches
Item Weight	0.6 Grams
Power Source	Battery Powered (2x AAA)
Counts	4000 Counts
Jaw Type	U-Shaped Jaw
Measurement Capabilities	AC/DC Current, Voltage, Capacitance, Resistance, Continuity, Diodes, Frequency (Hz), Live/Neutral Wires
Safety Rating	CAT III 600V
Special Features	TRMS, NCV, Data Hold, Backlight, Flashlight, Auto Power Off (15 min)

8. Warranty and Support

Your ANENG PN129 Clamp Meter comes with a standard manufacturer's warranty. Please refer to the warranty card included in your package for specific terms and conditions. For technical support, troubleshooting assistance, or warranty claims, please contact ANENG customer service through the details provided on the product packaging or the official ANENG website.