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PREXISO PDMX-206A

PREXISO Digital Clamp Meter PDMX-206A User Manual

Model: PDMX-206A

1. INTRODUCTION

The PREXISO PDMX-206A is a high-performance digital clamp meter designed for a variety of electrical measurements. This device integrates multiple functions to make your work easier, more efficient, and safer. It is capable of measuring AC/DC voltage, AC current, continuity, resistance, diode, and capacitance. It features True RMS measurement, a large backlit LCD display, a flashlight, MAX/MIN measurement, data hold, and a low battery indicator.

This manual provides essential information for the safe and effective operation, setup, and maintenance of your PREXISO PDMX-206A Digital Clamp Meter. Please read it thoroughly before use.



Image 1.1: The PREXISO PDMX-206A Digital Clamp Meter, including test leads and a protective carrying case.

2. SAFETY INFORMATION

To ensure safe operation and avoid electric shock or personal injury, always adhere to the following safety precautions:

- This device is rated CAT III 600V. Always observe safety ratings for the circuit being tested.
- The meter provides overload protection in all measurement ranges.
- Be aware of safety alerts such as low battery power, out-of-range indications, and input polarity warnings.
- Replace the batteries immediately when the low battery indicator appears on the display to prevent false readings that could lead to electric shock or injury.
- Do not attempt to measure DC current with this device, as it is designed for AC current detection only.

- Always turn off the meter and disconnect test leads before opening the battery compartment.
- Do not use the meter if it appears damaged or if the insulation on the test leads is compromised.
- Avoid using the meter in wet environments or during electrical storms.

3. PRODUCT OVERVIEW

Familiarize yourself with the components and display of your clamp meter:



Image 3.1: Labeled diagram of the PREXISO PDMX-206A Digital Clamp Meter components.

3.1. Components

- **Clamp:** Used for non-contact AC current measurement.
- **Clamp Trigger:** Press to open the clamp jaws.
- **Function Select Switch Knob:** Rotates to select different measurement modes (OFF, AC Current, AC/DC Voltage, Resistance, Continuity, Diode, Capacitance).
- **MAX/MIN Select Key:** Toggles between maximum and minimum recorded values.
- **FUNC Key:** Selects different functions within a mode (e.g., AC/DC voltage, continuity/diode/capacitance).
- **Flashlight/Backlight ON/OFF Key:** Short press for backlight, long press for flashlight.
- **Data Hold Key:** Freezes the current reading on the display.

- **LCD Display:** Shows measurement readings, units, and indicators.
- **"COM" Jack:** Common input terminal for test leads (black).
- **"INPUT" Jack:** Positive input terminal for test leads (red).

4. SETUP

4.1. Battery Installation

The PREXISO PDMX-206A requires two 1.5V AAA alkaline batteries. Follow these steps to install or replace the batteries:

1. Ensure the meter is turned OFF by rotating the function select switch knob to the "OFF" position.
2. Locate the battery compartment on the back of the meter.
3. Use a screwdriver to unscrew the screw securing the battery compartment cover.
4. Remove the cover and insert two new 1.5V AAA batteries, observing the correct polarity (+/-).
5. Replace the battery compartment cover and securely fasten the screw.

Instructions



1 Turn off the power of the meter



2 Use screwdriver to unscrew the screw



3 Replace new batteries



4 Lock the screw

Image 4.1: Step-by-step instructions for replacing the batteries in the clamp meter.

5. OPERATING INSTRUCTIONS

5.1. General Operation

- To turn on the meter, rotate the function select switch knob from "OFF" to any desired measurement function.
- To turn off the meter, rotate the knob back to the "OFF" position.
- The meter features an automatic shut-off function. If there is no operation for 15 minutes, the clamp meter will automatically turn off to conserve battery power. To restart the device after auto shut-off, press any key.



Image 5.1: The clamp meter's automatic shut-off feature after 15 minutes of inactivity.

5.2. AC Current Measurement

To measure AC current:

1. Rotate the function select switch knob to the "400/600A" or "40A" position.
2. Press the clamp trigger to open the clamp jaws.
3. Encircle only one conductor (live or neutral wire) with the clamp jaws. Do not clamp around an entire power cord, as this will result in a zero reading due to opposing currents.
4. Close the clamp jaws securely around the conductor.
5. Read the AC current value on the LCD display.

AC Current Measurement

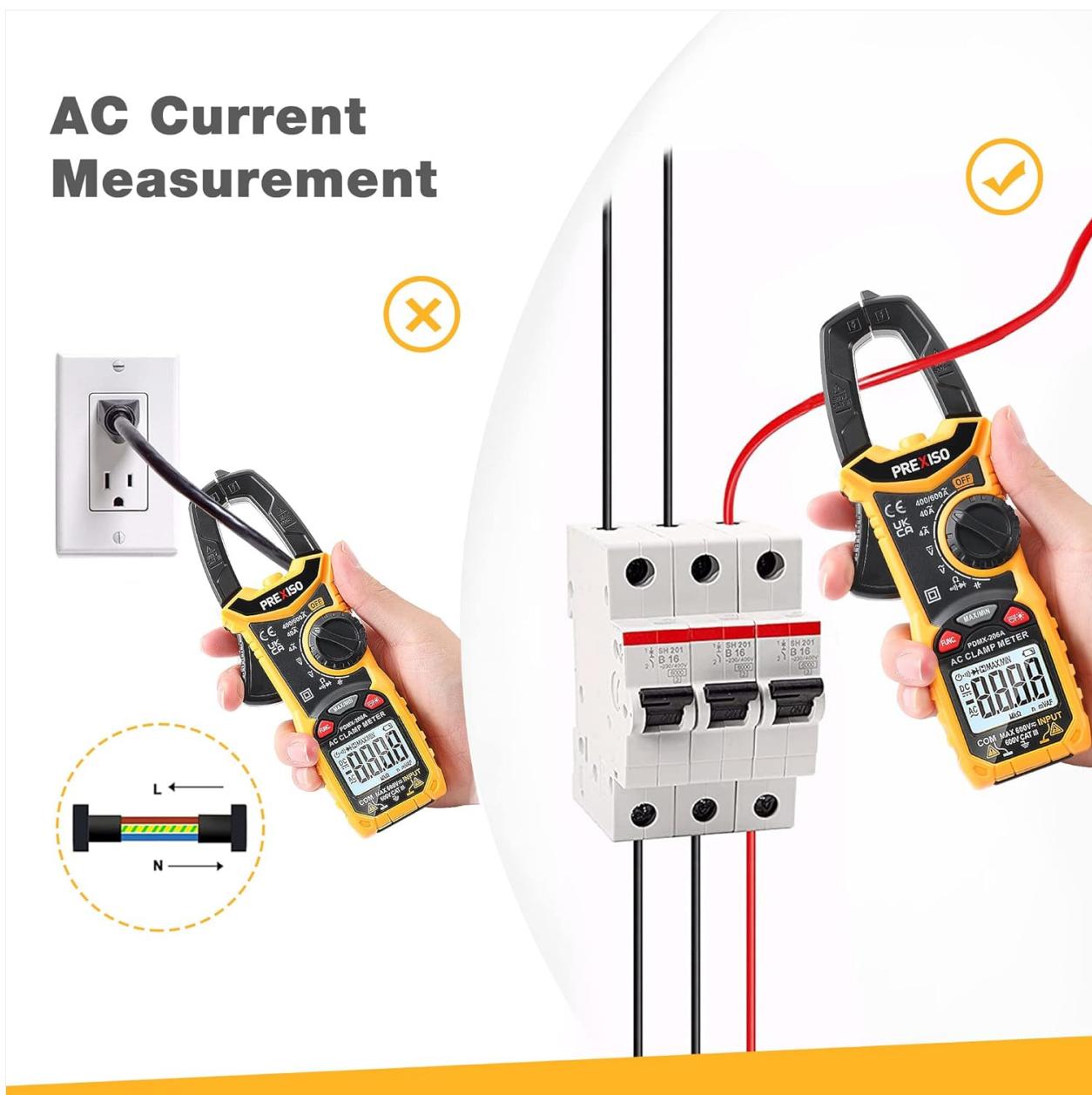


Image 5.2: Correct method for AC current measurement (clamping a single wire) versus incorrect method (clamping a full power cord).

5.3. AC/DC Voltage Measurement

To measure AC or DC voltage:

1. Insert the black test lead into the "COM" jack and the red test lead into the "INPUT" jack.
2. Rotate the function select switch knob to the "V" position.
3. Press the "FUNC" key to toggle between AC (\sim) and DC (—) voltage measurement if necessary.
4. Connect the test leads in parallel to the circuit or component you wish to measure.
5. Read the voltage value on the LCD display. The meter can measure up to 600V.

5.4. Resistance, Continuity, Diode, and Capacitance Measurement

To measure resistance, continuity, diode, or capacitance:

1. Insert the black test lead into the "COM" jack and the red test lead into the "INPUT" jack.
2. Rotate the function select switch knob to the " Ω " (Resistance), " \bullet " (Continuity), " Δ " (Diode), or " \perp " (Capacitance) position. Note that some of these functions may be grouped under a single knob position, requiring the "FUNC" key to select.
3. For resistance, connect the test leads across the component.

4. For continuity, connect the test leads across the circuit. An audible beep indicates continuity.
5. For diode, connect the red lead to the anode and the black lead to the cathode.
6. For capacitance, ensure the capacitor is discharged before connecting the test leads.
7. Read the measurement value on the LCD display.

Measurement Operation

4A, 40A, 400A/600A
AC current measurement

AC Clamp meter

~ V V AC/DC voltage measurement
The voltage above 600V can't be measured.

Ω → Resistance measurement
Continuity measurement
Diode measurement

Press the function select key
FUNC. o select different function.
C Capacitance measurement

Image 5.3: Visual guide for performing various measurements with the clamp meter.

5.5. Backlight and Flashlight

The meter is equipped with a backlight for the display and a flashlight for illuminating the work area:

- **Backlight:** Short press the Flashlight/Backlight ON/OFF key to turn the display backlight on or off.
- **Flashlight:** Long press the Flashlight/Backlight ON/OFF key to turn the integrated flashlight on or off.



Image 5.4: Activating the display backlight and the integrated flashlight.

5.6. Data Hold and MAX/MIN Functions

- **Data Hold:** Press the "HOLD" key to freeze the current reading on the display. Press it again to release.
- **MAX/MIN:** Press the "MAX/MIN" key to cycle through the maximum, minimum, and current readings recorded during a measurement session.

6. MAINTENANCE

6.1. Cleaning

Wipe the meter with a damp cloth and mild detergent. Do not use abrasives or solvents. Ensure the meter is completely dry before use.

6.2. Battery Replacement

Refer to Section 4.1 for detailed instructions on battery replacement. Always replace batteries when the low battery indicator appears.

6.3. Storage

When storing the meter for extended periods, remove the batteries to prevent leakage. Store the device in a

cool, dry place with a temperature range of -10°C to 60°C and relative humidity below 70%.

7. TROUBLESHOOTING

If you encounter issues with your PREXISO PDMX-206A, consider the following:

- **No Display/Meter Not Turning On:** Check battery installation and ensure batteries are not depleted. Replace if necessary.
- **Inaccurate Readings:** Ensure test leads are properly connected and the correct measurement function is selected. Verify that the batteries are not low.
- **"OL" Indication:** This indicates an over-range condition. The measured value exceeds the selected range. Select a higher range or verify the circuit.
- **No AC Current Reading:** Ensure only a single conductor is clamped within the jaws, not an entire power cord.

For further assistance, please contact PREXISO customer support.

8. SPECIFICATIONS

The following table outlines the general technical specifications for the PREXISO PDMX-206A Digital Clamp Meter:



General Technical Specifications

Meter P/N	PDMX-206A
Safety rating	CAT.III 600V
Pollution level	2
Operating altitude	<2000m(6562ft)
Operating temperature and humidity	0~40° (<80% RH, <10° non-condensing)
Storage temperature and humidity	-10~60° (<70% RH, remove the battery)
Temperature coefficient	0.1 accuracy/°C (<18°C or >28°C)
MAX. voltage between terminals and earth ground	600V
Over range indication	it displays "OL"
Power supply	2 x 1.5V AAA batteries
Weight (without batteries)	190g

Image 8.1: General Technical Specifications for the PREXISO PDMX-206A.

Parameter	Value
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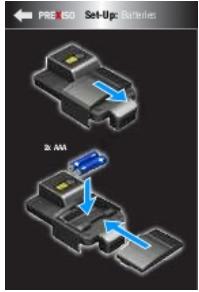
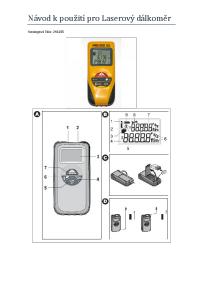
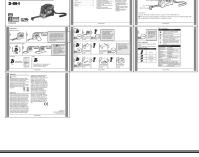
Parameter	Value
Power Supply	2 x 1.5V AAA batteries
Weight (without batteries)	190g
Dimensions (approx.)	19.3 cm (Length) x 7 cm (Width) x 3 cm (Max Clamp Opening)

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided at the time of purchase or contact your retailer. For technical support or service inquiries, please visit the official PREXISO website or contact their customer service department directly. Keep your purchase receipt as proof of purchase.

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Related Documents - PDMX-206A

	<p>Prexiso IC4 Laser Distance Meter User Manual and Safety Guide</p> <p>Comprehensive guide to the Prexiso IC4 laser distance meter, covering setup, operations, technical specifications, care, warranty, and safety instructions. Learn how to measure, add, subtract distances, and understand device settings and laser safety.</p>
	<p>Návod k použití pro Laserový dálkoměr PREXISO X2</p> <p>Podrobný uživatelský manuál pro laserový dálkoměr PREXISO X2. Obsahuje informace o funkcích, obsluze, měření vzdálenosti, plochy, objemu, technické údaje a řešení chyb. Katalogové číslo: 241005.</p>
	<p>PREXISO PDT5 Rechargeable Digital Tape Measure - 2-in-1, 16ft/5m</p> <p>User manual and product information for the PREXISO PDT5 Rechargeable Digital Tape Measure. Features include 2-in-1 functionality, 16ft/5m measuring range, real-time digital display, and technical specifications.</p>
	<p>Prexiso PLT40LI Rechargeable Laser & Tape Measure User Manual</p> <p>User manual for the Prexiso PLT40LI, a 2-in-1 rechargeable laser distance meter and 16ft tape measure. Covers safety, setup, operations (single distance, continuous, area, volume, Pythagoras), technical data, troubleshooting, care, disposal, and warranty.</p>

	<p>Prexiso PLT40LI Rechargeable Laser & Tape Measure User Manual and Specifications</p> <p>Comprehensive guide for the Prexiso PLT40LI 2-in-1 rechargeable laser and tape measure, covering setup, operations, safety instructions, technical specifications, troubleshooting, and warranty information.</p>
	<p>PREXISO P80E-8L Rechargeable Laser Distance Measure User Manual and Technical Specifications</p> <p>Official user manual and technical specifications for the PREXISO P80E-8L Rechargeable Laser Distance Measure, detailing its features, operation, safety guidelines, and warranty information.</p>