

PEAKMETER PM2128

PEAKMETER PM2128 Professional Handheld Digital AC/DC
Clamp Meter User Manual

Model: PM2128 | Brand: PEAKMETER

1. SAFETY INFORMATION

This manual contains information and warnings that must be observed to ensure safe operation and to keep the meter in a safe operating condition. Read the instructions carefully before using the meter.

- Always adhere to local and national safety codes.
- Do not use the meter if it appears damaged or if the insulation is compromised.
- Exercise extreme caution when working with voltages above 60V DC or 30V AC RMS, as these pose a shock hazard.
- Ensure the meter is in the correct function and range before making measurements.
- Do not exceed the maximum input values for any function.
- Disconnect power to the circuit and discharge all high-voltage capacitors before testing resistance or continuity.
- Replace batteries when the low battery indicator appears to ensure accurate readings.

WARNING: Risk of electric shock. Disconnect test leads from the circuit before opening the battery cover.

2. PRODUCT OVERVIEW

The PEAKMETER PM2128 is a professional handheld digital AC/DC clamp meter designed for measuring AC/DC voltage, AC/DC current, resistance, and capacitance. It features smart technology for automatic function and range selection, non-contact voltage detection, and a high-definition LCD with backlight.

2.1. Components and Display



Figure 2.1: Labeled diagram of the PM2128 clamp meter, showing the Non-contact Detection Sensing Area, NVC Alarm Indication, Anti-slip Trigger, Work Button, Function Switch Button, Data Hold/Backlight Button, LCD Display Screen, Range Switch Button, Frequency/Duty Ratio Measurement Button, and Relative Measurement Button.

- **Clamp Jaw:** Used for non-contact AC/DC current measurement.
- **Non-contact Detection Sensing Area:** Detects AC voltage without direct contact.
- **NVC Alarm Indication:** Visual indicator for Non-Contact Voltage detection.
- **Anti-slip Trigger:** Opens and closes the clamp jaw.
- **Work Button (Rotary Switch):** Selects measurement functions.
- **Function Switch Button (FUNC/VFD):** Toggles between sub-functions within a rotary switch position (e.g., AC/DC, Hz/Duty Cycle).
- **Data Hold/Backlight Button (H/*):** Freezes the current reading on the display; long press activates/deactivates backlight.
- **LCD Display Screen:** Shows measurement readings, units, and indicators.
- **Range Switch Button (RAN):** Manually selects measurement range (Auto-ranging is default).
- **Frequency/Duty Ratio Measurement Button (Hz%):** Toggles between frequency and duty cycle measurements.

- **Relative Measurement Button (REL):** Stores the current reading as a reference for subsequent measurements.
- **Input Terminals (COM, INPUT):** For connecting test leads for voltage, resistance, capacitance, and continuity measurements.

2.2. Key Features

- Smart technology for automatic measurement function and range selection.
- Non-contact voltage (NCV) detection for enhanced safety.
- High-definition LCD display for clear, real-time readings.
- Built-in backlight and flashlight for use in low-light conditions.
- Multiple functions: Data hold, continuity test, auto power off, analog bar display, and relative measurement.

3. SETUP

3.1. Battery Installation

The meter requires 3 x 1.5V AAA batteries. To install or replace batteries:

1. Ensure the meter is turned OFF and disconnect all test leads from the input terminals.
2. Locate the battery compartment cover on the back of the meter.
3. Use a screwdriver to loosen the screw(s) on the battery cover.
4. Remove the cover and insert the batteries, observing correct polarity (+/-).
5. Replace the battery cover and secure it with the screw(s).



Figure 3.1: Rear view of the PM2128, indicating the battery compartment and safety warnings.

3.2. Connecting Test Leads

For voltage, resistance, capacitance, and continuity measurements, connect the test leads as follows:

- Insert the black test lead into the "COM" (common) input terminal.
- Insert the red test lead into the "INPUT" terminal.



Figure 3.2: The PM2128 clamp meter with red and black test leads properly connected to the input terminals.

4. OPERATING INSTRUCTIONS

Before any measurement, ensure the meter is clean and free from damage. Select the appropriate function using the rotary switch.

4.1. AC/DC Current Measurement (Clamp Jaw)

1. Rotate the switch to the "60A/600A/1000A" position (AC or DC current symbol).
2. Press the "FUNC" button to select between AC or DC current if necessary.
3. Press the anti-slip trigger to open the clamp jaw.
4. Enclose only one conductor (not a power cord with multiple wires) within the clamp jaw.
5. Release the trigger to close the jaw. The current reading will appear on the LCD.



Figure 4.1: The PM2128 clamp meter in use, measuring current by clamping around a single conductor.

4.2. AC/DC Voltage Measurement

1. Connect the test leads as described in Section 3.2.
2. Rotate the switch to the "V" position (Voltage symbol).
3. Press the "FUNC" button to select between AC or DC voltage.
4. Touch the red and black test probes to the test points of the circuit.
5. The voltage reading will be displayed.

4.3. Resistance Measurement

1. Connect the test leads as described in Section 3.2.
2. Rotate the switch to the " Ω " position (Resistance symbol).
3. Ensure the circuit under test is de-energized.
4. Touch the test probes across the component or circuit to measure resistance.
5. The resistance reading will be displayed.

4.4. Continuity Test

1. Connect the test leads as described in Section 3.2.
2. Rotate the switch to the "Ω" position (Resistance symbol).
3. Press the "FUNC" button until the continuity symbol (♩) appears on the display.
4. Ensure the circuit under test is de-energized.
5. Touch the test probes across the component or circuit. A continuous beep indicates continuity.

4.5. Non-Contact Voltage (NCV) Detection

1. Rotate the switch to the "NCV" position.
2. Move the Non-contact Detection Sensing Area (top of the clamp jaw) close to the conductor or outlet.
3. If AC voltage is detected, the NVC Alarm Indication will light up and an audible alarm will sound.

4.6. Data Hold and Backlight

- **Data Hold:** Press the "H/⌘" button briefly to freeze the current reading on the display. Press again to release.
- **Backlight:** Press and hold the "H/⌘" button for approximately 2 seconds to turn the display backlight ON or OFF.

4.7. Auto Power Off

The meter will automatically power off after approximately 15 minutes of inactivity to conserve battery life. To reactivate, press any button or rotate the function switch.

5. MAINTENANCE

5.1. Cleaning

Wipe the meter with a dry, soft cloth. Do not use abrasives or solvents. Keep the input terminals free from dirt and moisture.

5.2. Battery Replacement

Refer to Section 3.1 for battery installation and replacement instructions. Replace batteries promptly when the low battery indicator appears on the display to ensure accurate measurements.

5.3. Storage

If the meter is not used for an extended period, remove the batteries to prevent leakage. Store the meter in a cool, dry place, away from direct sunlight and extreme temperatures.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Meter does not power on.	Dead or incorrectly installed batteries.	Check battery polarity; replace batteries.
"OL" or "OVER" displayed.	Measurement exceeds selected range or meter's maximum capacity.	Select a higher range (if available) or ensure measurement is within meter's limits.
Inaccurate readings.	Low battery, incorrect function/range, dirty test leads/terminals.	Replace batteries, verify function/range, clean leads/terminals.
No continuity beep.	Circuit not continuous, incorrect function selected.	Ensure circuit is de-energized and complete; verify continuity function is active.

7. SPECIFICATIONS

Measurement Function	Range
DC Voltage	6V / 60V / 600V / 1000V
AC Voltage	6V / 60V / 600V / 1000V
DC Current	60A / 600A / 1000A
AC Current	60A / 600A / 1000A
Resistance	6kΩ / 60kΩ / 600kΩ / 6MΩ / 60MΩ
Continuity	Audible indication below approx. 50Ω

- **Power:** 3 x 1.5V AAA Batteries
- **Display:** LCD with Backlight
- **Auto Power Off:** Approximately 15 minutes of inactivity
- **Safety Rating:** CAT III 1000V, CAT IV 600V
- **Dimensions:** 10.63 x 5.12 x 2.36 inches (Package)
- **Weight:** 1.28 Pounds (Package)
- **Manufacturer:** KIMISS

8. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided with your purchase or contact the retailer/manufacturer directly. Keep your purchase receipt as proof of purchase.

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