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› PEAKMETER PM8908C NCV Detector Voltage Tester Pen User Manual

PEAKMETER PM8908C

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Model: PM8908C | Brand: PEAKMETER

INTRODUCTION

Thank you for choosing the PEAKMETER PM8908C NCV Detector Voltage Tester Pen. This device is designed for safe and efficient detection of AC voltage without direct contact. It features a non-contact voltage (NCV) detection mechanism, an LED indicator, and a built-in flashlight for use in various environments. Please read this manual thoroughly before operation to ensure proper use and to maintain the device's performance.

SAFETY INFORMATION

- Always exercise caution when working with electricity.
- Do not attempt to measure voltage beyond the specified range (AC 12V-1000V).
- Ensure the device is clean and dry before use.
- Replace batteries promptly when the low battery indicator appears to ensure accurate readings.
- Do not use the device if it appears damaged or is not functioning correctly.
- This device is designed for non-contact detection. Do not use it as a substitute for proper electrical testing procedures when direct contact measurement is required.

PRODUCT OVERVIEW

Key Features:

- **Non-Contact Voltage (NCV) Detection:** Safely detects AC voltage from 12V to 1000V without physical contact.
- **Adjustable Sensitivity:** Automatically selects between High, Medium, and Low sensitivity levels.
- **Visual and Audible Alarms:** Indicates voltage presence with sound and light (LED flash).
- **Built-in Flashlight:** Provides illumination for working in dimly lit areas.
- **Live/Null Wire Identification:** Helps distinguish between live and neutral wires.
- **Auto Power Off:** Conserves battery life.
- **Low Battery Indication:** Alerts when batteries need replacement.
- **Durable Construction:** Made from wear-resistant and insulated engineering plastic.

Components:



Figure 1: Angled view of the PEAKMETER PM8908C NCV Detector Voltage Tester Pen, showing the orange body, black clip, green power button, and LED indicator at the tip.

The PEAKMETER PM8908C features a compact, pen-style design. It includes a non-contact tip for voltage detection, an LED indicator light, a power button, a flashlight button, and a battery compartment at the base. A pocket clip is integrated for portability.



Figure 2: Top-down view of the voltage tester pen, highlighting the NCV sensor tip, LED indicator, and control buttons.

This view provides a clear perspective of the device's top surface, showing the NCV sensor at the top, the LED indicator, and the two main control buttons: the power button (circular, green) and the flashlight button (rectangular, green with a lightbulb icon).



Figure 3: Close-up of the transparent NCV sensor tip of the voltage tester, where voltage detection occurs and the LED illuminates.

The transparent tip houses the non-contact voltage sensor. When AC voltage is detected, this tip will illuminate, and an audible alarm will sound, providing clear indication of live circuits.

SETUP: BATTERY INSTALLATION

The PEAKMETER PM8908C requires two 1.5V AA batteries (not included) for operation.

1. Locate the battery compartment cap at the bottom end of the tester.
2. Twist the cap counter-clockwise to unlock and remove it.
3. Insert two 1.5V AA batteries, ensuring correct polarity (+ and -) as indicated inside the compartment.
4. Replace the battery compartment cap and twist clockwise to secure it.

Note: Always use fresh batteries for optimal performance and accurate readings. Dispose of old batteries responsibly.

OPERATING INSTRUCTIONS

1. Powering On/Off:

- Press the circular green power button to turn the device on. The LED indicator will light up briefly.
- The device will automatically power off after a period of inactivity to conserve battery.



Figure 4: Close-up view of the control panel, showing the power button (circular) and flashlight button (rectangular with lightbulb icon).

This image clearly shows the two main control buttons on the device's body, essential for operation.

2. Non-Contact Voltage (NCV) Detection:

- With the tester powered on, bring the NCV sensor tip close to the wire, outlet, or electrical component you wish to test.
- If AC voltage is detected, the LED indicator at the tip will flash, and an audible alarm will sound. The frequency of the beeps and flashes will increase with higher voltage or closer proximity to the live source.
- The device automatically adjusts sensitivity (High, Medium, Low) based on the detected voltage level.



Figure 5: The voltage tester pen displaying its sensitivity indicators (High, Medium, Low) on the side, which illuminate based on detected voltage.

This image illustrates the visual feedback provided by the device, indicating the detected voltage level through illuminated segments.

3. Live/Null Wire Identification:

- To identify live and null (neutral) wires, place the NCV tip near each wire.
- The tester will provide a stronger, more frequent alarm (both sound and light) when near a live wire compared to a null wire, or no alarm if the wire is completely dead.

4. Using the Flashlight:

- Press the rectangular green button with the lightbulb icon to turn the built-in flashlight on or off.
- The flashlight is useful for illuminating dark work areas.

SPECIFICATIONS

Parameter	Value
Model	PM8908C

Auto Power Off	Yes
Low Battery Indication	Yes
Live/Null Wire Identification	Yes
NCV Sensitivity	Automatically selecting 3 kinds (High, Medium, Low)
Voltage Sensitivity	AC 12V-1000V
Frequency	50-60Hz
Alarm Mode	Sound and Light Flash
Flash Light Color	White
Operating Temperature	0-50 °C (32-122 °F)
Storage Temperature	-10-50 °C (14-122 °F)
Humidity	≤85%
Battery	2pcs 1.5V AA Batteries (NOT included)
Size	16 x 2 x 2 cm (6.30 x 0.79 x 0.79 in)
Weight	Approx. 64g (2.26 oz)

MAINTENANCE

- **Cleaning:** Wipe the device with a dry, soft cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the tester 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 when the low battery indicator illuminates to ensure accurate operation.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Batteries are dead or incorrectly installed.	Check battery polarity and replace with fresh 1.5V AA batteries.
No detection or inconsistent readings.	Low battery; device too far from voltage source; interference.	Replace batteries. Ensure the NCV tip is close to the source. Move away from strong electromagnetic fields.

Flashlight does not work.	Device is off; batteries are low or dead; flashlight LED failure.	Ensure device is powered on. Replace batteries. If problem persists, contact support.
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WARRANTY AND SUPPORT

Specific warranty information for the PEAKMETER PM8908C is not provided in this manual. For warranty claims, technical support, or service inquiries, please refer to the product packaging or contact the retailer or manufacturer directly.

Manufacturer: CFTGIW