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KENMIC K132

KENMIC K132 EMF Meter Instruction Manual

Rechargeable Handheld Electromagnetic Field Detector with Digital LCD

1. Introduction

Thank you for choosing the KENMIC K132 EMF Meter. This versatile and precise instrument is designed to accurately measure electric and magnetic fields, making it an essential tool for various applications including home use, office environments, outdoor investigations, and electronic troubleshooting. Its user-friendly design, featuring a 2.5-inch backlit LCD display and anti-slip grip, ensures comfortable handling and clear readings in any lighting condition.

The device is equipped with intelligent power management, including an auto-off feature after 5 minutes of inactivity to conserve battery life. It operates on a rechargeable battery, promoting eco-friendliness and extended usage time. Please read this manual thoroughly to ensure proper and safe operation.

2. Product Features

- **Precision & Versatility:** Delivers exceptional accuracy in measuring electric and magnetic fields for diverse applications.
- **Clear Display:** Features an expansive 2.5-inch backlit LCD display for crystal-clear readings in all lighting conditions.
- **Ergonomic Design:** Thoughtful design with an anti-slip grip ensures comfortable handling and easy storage.
- **Smart Power Management:** Automatic shutdown after 5 minutes of inactivity (can be disabled for continuous mode) and a rechargeable battery for extended use.
- **Tailored Alerts:** Provides real-time visual and audible alerts when field readings exceed predefined thresholds.
- **Versatile Functionality:** Effortlessly switch between average and peak measurement modes, and data hold for convenient recording.



Figure 1: The KENMIC K132 EMF Meter offers 3-in-1 functionality for Magnetic Field (uT/mG), Electric Field (V/m), and Temperature (°C/°F) measurements.

3. What's in the Box

- 1 x KENMIC K132 EMF Meter
- 1 x Type-C Charging Cable (5V, 1A)
- 1 x Storage Bag
- 1 x User Manual



Figure 2: The complete KENMIC K132 EMF Meter kit, ready for use.

4. Product Components



Figure 3: Labeled diagram of the KENMIC K132 EMF Meter, showing the front sensing area, LCD display, indicator light, Power On/Off/Hold button, Unit switch button, Average/Peak value mode switch button/Buzzer switch, and Type-C Charging Port.

- **Front Sensing Area:** The area where electromagnetic fields are detected.
- **LCD Display:** Digital screen showing measurement values, battery status, and mode.
- **Indicator Light:** Provides visual alerts for warning levels.
- **Power On/Off/Hold Button:** Short press to power on/off, long press to hold data.
- **AVG/VPP / Buzzer Switch:** Toggles between Average and Peak measurement modes. Long press to turn the audible alarm on/off.
- **UNIT Button:** Short press to switch between magnetic field units (uT/mG). Long press to change temperature units (°C/°F).
- **Type-C Charging Port:** For charging the device (5V, 1A).

5. Setup

5.1 Initial Charging

Before first use, ensure the EMF meter is fully charged. Connect the provided Type-C charging cable to the device's charging port and a compatible 5V, 1A USB power adapter (not included). The battery indicator on the LCD will show charging status. A full charge is indicated when all battery segments are solid.

5.2 Powering On/Off

- **To Power On:** Short press the **Power On/Off/Hold** button. The device will perform a self-check and display readings.
- **To Power Off:** Long press the **Power On/Off/Hold** button until the display turns off.
- **Automatic Shutdown:** The device will automatically shut down after 5 minutes of inactivity to save power.

6. Operating Instructions

6.1 Basic Operation

Once powered on, the device will immediately begin measuring electric (E-field) and magnetic (H-field) fields, along with temperature. Hold the device with the front sensing area pointed towards the object or area you wish to measure.



Figure 4: Demonstrating how to hold the EMF meter to measure fields from electronic devices.

6.2 Measurement Modes (AVG/VPP)

The device supports two measurement modes: Average (AVG) and Peak (VPP).

- **To Switch Modes:** Short press the **AVG/VPP** button to toggle between Average and Peak value display.
- **Average (AVG):** Displays the average electromagnetic field strength over time.
- **Peak (VPP):** Displays the maximum (peak) electromagnetic field strength detected.

6.3 Unit Switching

You can switch the units for magnetic field and temperature measurements.

- **Magnetic Field Units:** Short press the **UNIT** button to switch between microtesla (uT) and milligauss (mG).
- **Temperature Units:** Long press the **UNIT** button to switch between Celsius (°C) and Fahrenheit (°F).

6.4 Audible Alarm (Buzzer)

The device provides an audible alarm when detected field levels exceed predefined safety thresholds.

- **To Turn On/Off:** Long press the **Buzzer Switch** (integrated with AVG/VPP button) to enable or disable the audible alarm.

6.5 Data Hold

To retain a specific reading on the display:

- **To Hold Data:** Short press the **Power On/Off/Hold** button while the device is on. The current readings will be locked on the screen.
- **To Release Hold:** Short press the **Power On/Off/Hold** button again to resume real-time measurements.

6.6 Continuous Operation Mode

By default, the device automatically shuts down after 5 minutes of inactivity. To enable continuous operation:

- **To Enable Continuous Mode:** Long press the **Power On/Off/Hold** button until "UOFF" appears on the screen. The device will remain on until manually powered off.
- **To Revert to Intermittent Mode:** Short press the **Power On/Off/Hold** button for approximately 1 second. The auto-shutdown feature will be re-enabled.

7. Interpreting Readings

The EMF meter provides visual and audible warnings when electric or magnetic field levels exceed certain thresholds. The screen color will change to red, and an audible alarm will sound (if enabled).

- **Electric Field (E-field):** Warning threshold is typically set at 40 V/m.
- **Magnetic Field (H-field):** Warning threshold is typically set at 0.4 µT.



Figure 5: The EMF meter indicates warning levels with a red screen and audible alerts when thresholds are exceeded.

8. Applications

The KENMIC K132 EMF Meter is suitable for a wide range of applications:

- **Home & Office:** Identify sources of electromagnetic radiation from appliances, wiring, and electronic devices.
- **Outdoor Use:** Measure ambient EMF levels in various environments.
- **Electronic Troubleshooting:** Pinpoint faulty wiring or devices emitting excessive fields.
- **Paranormal Investigations:** Detect unusual electromagnetic fluctuations.
- **Specific Device Testing:** Useful for checking microwaves, hair dryers, Wi-Fi routers, cell phones, and computers.



Figure 6: The EMF meter can be used to test various household appliances and electronic devices.

Video 1: An overview of the KENMIC K132 EMF Meter's 3-in-1 capabilities and various uses.

9. Charging

The EMF meter is equipped with a rechargeable battery. To charge the device, use the provided Type-C charging cable and a 5V, 1A power adapter.

- Connect the Type-C cable to the charging port on the device.
- Connect the other end of the cable to a 5V, 1A USB power source.
- The battery indicator on the LCD screen will show the charging progress.
- Monitor the battery indicator to ensure uninterrupted performance.



Figure 7: The battery indicator on the LCD screen shows the current charge level.

10. Specifications

Specification	Value
Brand	KENMIC
Model Number	K132
Color	Black
Material	Plastic
Power Source	Battery Powered (Rechargeable Lithium Polymer)
Charging Requirement	5V, 1A
Item Weight	134 Grams (4.7 ounces)
Product Dimensions	5.24 x 2.36 x 0.98 inches
Magnetic Field Range	0.01-99.99uT / 0.1-999.99mG
Electric Field Range	1-1999 V/m
Temperature Range	0-50°C / 32-122°F
UPC	197644818143

11. Troubleshooting

- **Device not powering on:** Ensure the battery is charged. Connect to a 5V, 1A power source and try again.
- **Inaccurate readings:** Ensure the device is held correctly with the front sensing area towards the source. Avoid strong interference sources nearby.
- **No audible alarm:** Check if the buzzer is enabled by long pressing the AVG/VPP button.
- **Device shuts off unexpectedly:** Verify that continuous operation mode is enabled if prolonged use is desired. Otherwise, it will auto-off after 5 minutes of inactivity.

12. Warranty and Support

KENMIC provides 36 months of after-sales service and lifetime technical support for the K132 EMF Meter. If you encounter any issues or have questions, please contact our dedicated technical support team for assistance.

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