DANOPLUS B0BJZR2PK6

DANOPLUS EMF Meter Digital Electromagnetic Field Radiation Detector Instruction Manual

Model: B0BJZR2PK6

1. Introduction

The DANOPLUS EMF Meter is a high-sensitivity digital electromagnetic field radiation detector designed to measure both electric field radiation and magnetic field emissions. It also includes a temperature testing function. This device is suitable for monitoring electromagnetic radiation in various environments such as homes, offices, and industrial sites, as well as for testing radiation from common electronic devices. This manual provides detailed instructions for the proper use, maintenance, and troubleshooting of your EMF meter.



Image 1.1: Overview of DANOPLUS EMF Meter key features.

2. Safety Information

- Read this manual thoroughly before operating the device to ensure safe and correct usage.
- Do not attempt to disassemble or modify the device. This may cause damage and void the warranty.
- Keep the device away from water and other liquids to prevent electric shock or damage.
- Avoid exposing the device to extreme temperatures, direct sunlight, or high humidity.
- Use only the provided USB cable for charging.
- This device is for measurement purposes only and should not be used as a substitute for professional health or safety advice.

3. Product Overview

3.1 Package Contents

Upon opening the package, verify that all items are present:

- DANOPLUS EMF Tester
- USB Charging Cable
- Instruction Manual



Image 3.1: Contents of the DANOPLUS EMF Meter package.

3.2 Device Components

Familiarize yourself with the various parts of your DANOPLUS EMF Meter:



Image 3.2: Labeled components of the DANOPLUS EMF Meter.

- **Front Sensing Area:** The area where electromagnetic fields are detected. Ensure this area is unobstructed during measurements.
- **LCD Screen:** Displays measurement values, mode indicators, battery status, and warnings.
- **Power/HOLD Button:** Press and hold to power on/off. Short press to activate data hold function.
- **AVG/VPP Button:** Switches between Average (AVG) and Peak (VPP) value measurement modes.
- **UNIT Button:** Changes the unit of measurement for temperature (°C/°F) and magnetic field (uT/mG).
- **Indicator Light:** Illuminates to indicate device status or alarm conditions.
- **Charging Port:** USB port for recharging the internal battery.

3.3 LCD Screen Indicators

Understanding the display is crucial for accurate readings:



Image 3.3: Detailed view of the LCD screen and its indicators.

- **VPP / AVG:** Indicates Peak Value mode or Average Value mode.
- **HOLD:** Appears when the data hold function is active.
- **Battery Icon:** Shows the current battery level.
- **Buzzer Icon:** Indicates if the audible alarm is enabled.
- **E-field:** Displays the electric field radiation value in V/m.
- **H-field:** Displays the magnetic field radiation value in uT or mG.
- **Temperature:** Shows the ambient temperature in °C or °F.
- **Good / Warning:** Indicates the radiation assessment status. "Good" means values are within safe limits; "Warning" indicates values exceed preset thresholds.

4. Setup

4.1 Charging the Device

The DANOPLUS EMF Meter comes with a built-in rechargeable battery. Before first use, it is recommended to fully charge the device.

1. Connect the small end of the provided USB cable to the charging port on the side of the EMF meter.
2. Connect the larger end of the USB cable to a standard USB power adapter (not included) or a computer's USB port.
3. The battery icon on the LCD screen will indicate charging status. Once fully charged, the battery icon will show full.

A low battery indicator will appear on the screen when the battery needs recharging.

5. Operating Instructions

5.1 Power On/Off

- **To Power On:** Press and hold the **Power/HOLD** button for approximately 2 seconds until the screen illuminates.
- **To Power Off:** Press and hold the **Power/HOLD** button for approximately 2 seconds until the screen turns off.

The device features an automatic shut-down function after 5 minutes of no button operation to conserve battery life.

5.2 Measurement Modes (AVG/VPP)

The meter can display either the average or peak value of the radiation:

- Press the **AVG/VPP** button to toggle between Average (AVG) and Peak (VPP) value modes.
- **AVG (Average Value):** Displays the average radiation level over time.
- **VPP (Peak Value):** Displays the highest radiation level detected during the measurement period.

5.3 Changing Units

You can select preferred units for temperature and magnetic field:

- Press the **UNIT** button to cycle through the available units.
- For temperature, choose between Celsius (°C) and Fahrenheit (°F).
- For magnetic field, choose between microtesla (uT) and milligauss (mG).

5.4 Data Hold Function

To freeze the current readings on the screen:

- While the device is on, short press the **Power/HOLD** button. The "HOLD" icon will appear on the screen.
- To release the hold and resume live measurements, short press the **Power/HOLD** button again.

5.5 Interpreting Readings and Alarms

The device provides a visual and audible indication of radiation levels:

- **"Good" Indication:** When the electric and magnetic field values are below the preset alarm thresholds, the screen will display "Good" next to the respective field.
- **"Warning" Indication:** If the measured values exceed the alarm thresholds (40V/m for electric field and 0.4uT/4mG for magnetic field), the screen will display "Warning", the indicator light will flash, and an audible alarm will sound (if enabled).



Image 5.1: Visual representation of safe and warning radiation levels on the display.

To disable or enable the audible alarm, refer to the specific instructions in the full manual (if available, otherwise assume it's automatic).

5.6 General Measurement Tips

- Hold the device steady and point the front sensing area towards the suspected source of radiation.
- Move the meter slowly around the area to identify hot spots.
- Measurements can be affected by other electronic devices nearby. Try to minimize interference.



Image 5.2: Using the EMF meter to detect radiation from a microwave oven.



Image 5.3: Examples of common radiation sources and their typical radiation indexes.

6. Maintenance

6.1 Cleaning

- Wipe the device with a soft, dry cloth.
- Do not use abrasive cleaners, solvents, or harsh chemicals.

6.2 Storage

- Store the device in a cool, dry place, away from direct sunlight and extreme temperatures.
- If storing for an extended period, ensure the battery is partially charged (around 50%) and recharge it every few months to maintain battery health.

7. Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	Low battery or no charge.	Charge the device using the provided USB cable.
Readings seem inaccurate or fluctuate wildly.	Interference from other electronic devices; device not held steadily; sensing area obstructed.	Move away from other electronics; hold the device steady; ensure the sensing area is clear.
Alarm constantly sounds.	High radiation levels detected; device is too close to a strong EMF source.	Move the device away from the source; verify the source of radiation.

Problem	Possible Cause	Solution
Screen is blank or frozen.	Device malfunction or temporary software glitch.	Try powering off and on again. If issue persists, contact customer support.

8. Specifications

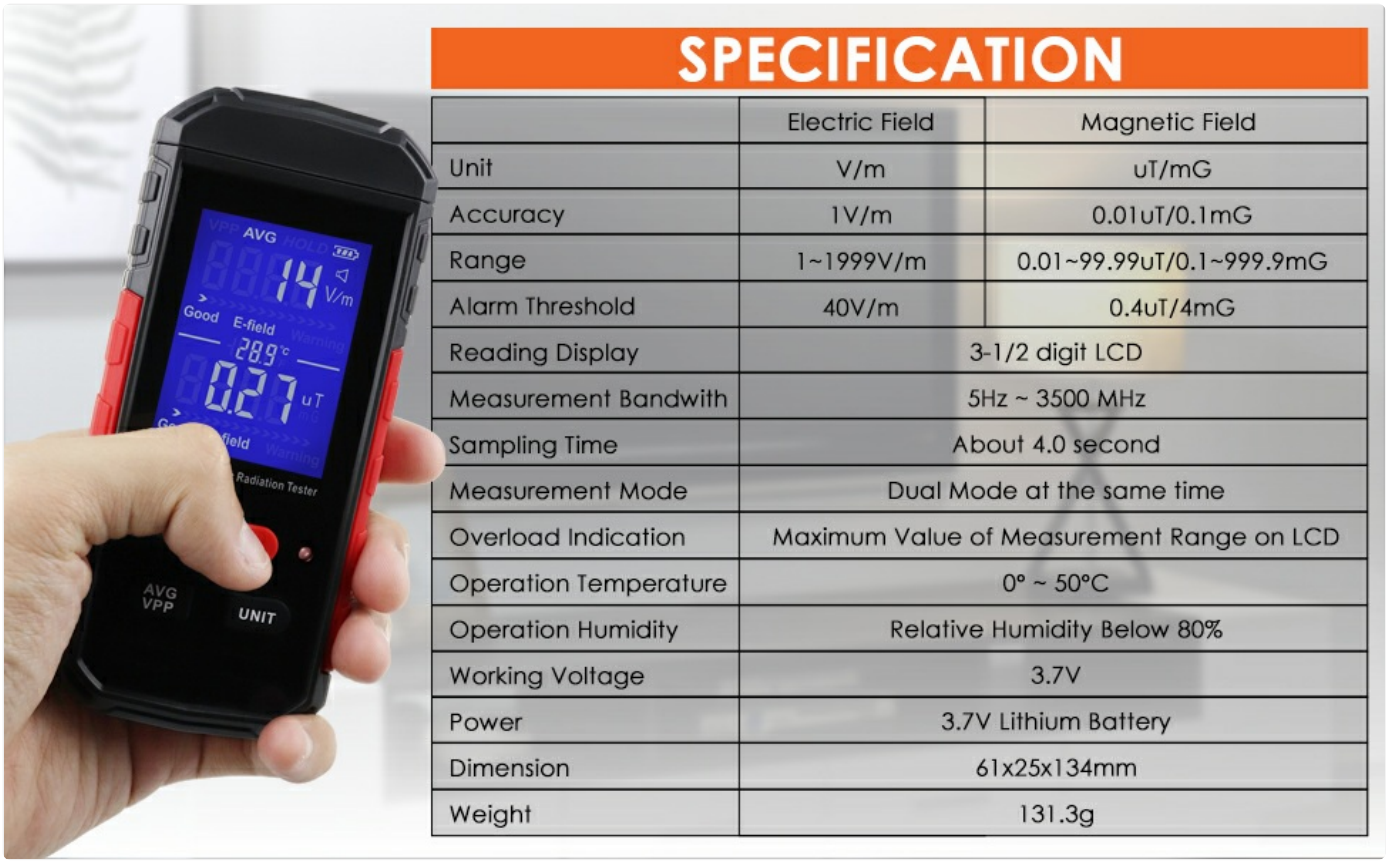


Image 8.1: Detailed technical specifications of the EMF Meter.

Parameter	Electric Field	Magnetic Field
Unit	V/m	uT/mG
Accuracy	1 V/m	0.01 uT / 0.1 mG
Range	1~1999 V/m	0.01~99.99 uT / 0.1~999.9 mG
Alarm Threshold	40 V/m	0.4 uT / 4 mG
Reading Display	3-1/2 digit LCD	
Measurement Bandwidth	5 Hz ~ 3500 MHz	
Sampling Time	About 4.0 seconds	
Measurement Mode	Dual Mode at the same time	
Overload Indication	Maximum Value of Measurement Range on LCD	
Operation Temperature	0° ~ 50°C	

Parameter	Electric Field	Magnetic Field
Operation Humidity	Relative Humidity Below 80%	
Working Voltage	3.7V	
Power	3.7V Lithium Battery	
Dimension	61 x 25 x 134 mm	
Weight	131.3 g	



Image 8.2: Physical dimensions and weight of the EMF Meter.

9. Warranty and Support

For warranty information or technical support, please refer to the contact details provided with your purchase or visit the

official DANOPLUS website. Keep your purchase receipt as proof of purchase for warranty claims.