Mastfuyi FY8809

Mastfuyi FY8809 Digital Handheld EMF Meter User Manual

Model: FY8809

1. Introduction

The Mastfuyi FY8809 is a digital handheld electric and electromagnetic field radiation detector. It features a clear visual and audible alarm system and is designed for wide-ranging use in measuring radiation from various household appliances and electrical devices. This manual provides essential information for the safe and effective operation of your device.



Figure 1: Mastfuyi FY8809 EMF Meter displaying readings for both electric and electromagnetic fields.

2. Safety Information

Please read and understand all safety instructions before using this device. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Do not attempt to modify or disassemble the device.
- Keep the device away from water and high humidity environments.
- Ensure the battery is inserted correctly according to polarity markings.
- Replace batteries when the low power indicator appears to ensure accurate readings.
- The device is designed for detection, not for protection against radiation. Always maintain a safe distance from high-radiation sources.

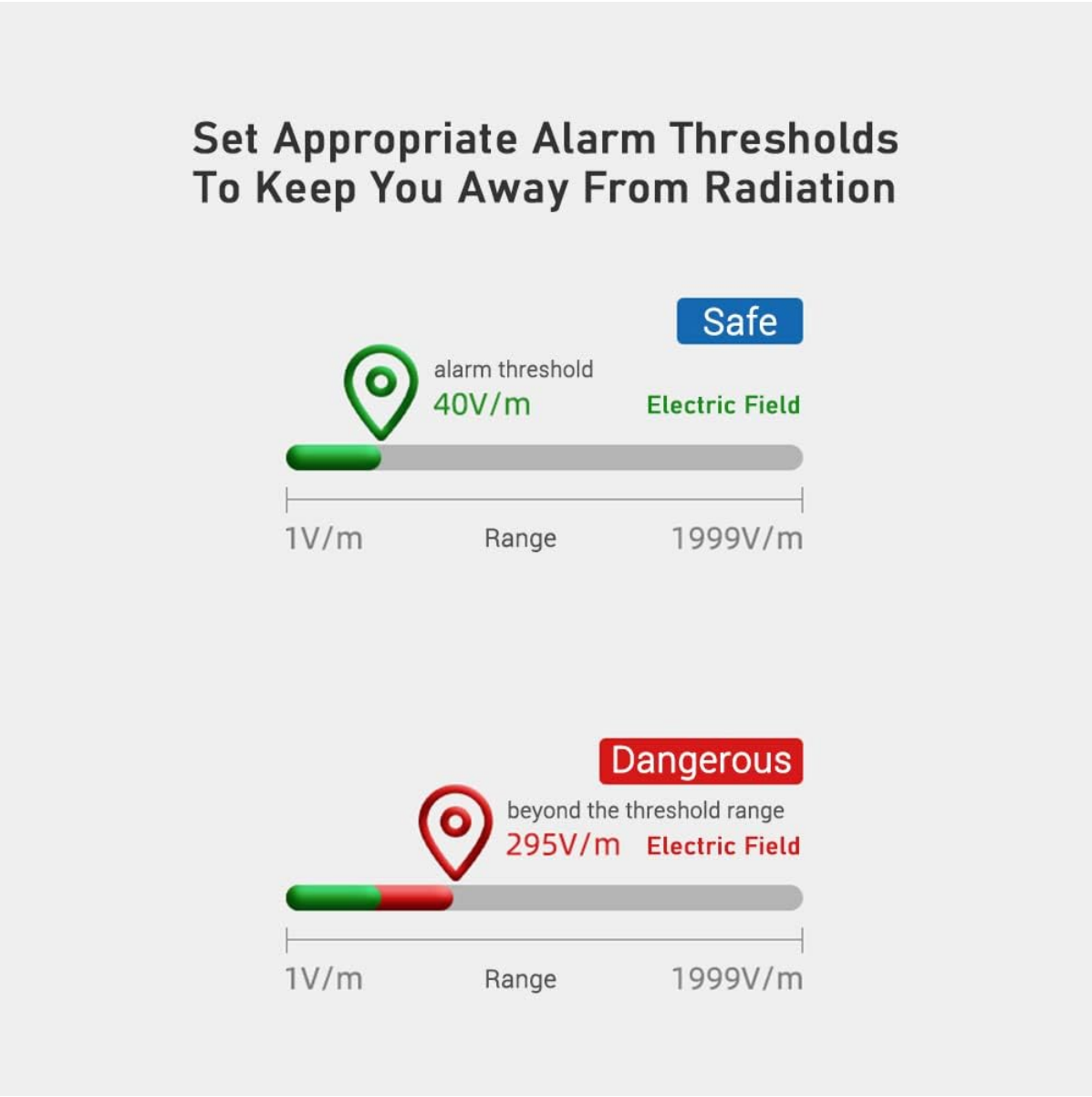


Figure 2: Illustration of electric field alarm thresholds. The device indicates 'Safe' below 40V/m and 'Dangerous' above 295V/m.

The device features a clear visual and audible alarm. When the detection result exceeds the safety threshold, the screen will display the corresponding value, an alarm sound will be emitted, and the indicator light will turn red. This serves as a warning for potentially high radiation levels.

3. Product Overview

The Mastfuyi FY8809 is equipped with several features for comprehensive EMF detection.



Figure 3: Key features of the EMF meter, including Electromagnetic Field Radiation, Electric Field Radiation, Audible and Visual Alarm, Data Hold, Flashlight, Backlight, High Sensitivity Sensor, Low Battery Prompt, and Maximum Measurement.

Components and Controls



Figure 4: Overview of the device's buttons and their corresponding functions.

- **Power Button ( ):** Press to turn the device on or off. Also used to turn off the alarm prompt.
- **Function/Backlight Button ( ):** Press to switch between electric field and magnetic field measurement modes. Long press to toggle the backlight.
- **Data Hold/MAX Button (SEL):** Press to hold the current data reading. Long press to display the maximum recorded value.
- **Unit/Flashlight Button (MAX):** Press to switch between measurement units (V/m, µT, mG). Long press to activate or deactivate the flashlight.

4. Setup

Battery Installation

1. Locate the battery compartment on the back of the device.
2. Open the battery compartment cover.
3. Insert one 6F22 9V battery, ensuring correct polarity (+ and -).
4. Close the battery compartment cover securely.

The device will not operate without a battery. If the low power indicator appears on the display, replace the battery promptly.

5. Operating Instructions

Powering On/Off

- To power on, press the Power button ( ). The LCD screen will light up.
- To power off, press and hold the Power button ( ) until the display turns off.

Measurement Modes

The device can measure both electric fields and electromagnetic fields.

- Press the Function/Backlight button ( ) to switch between electric field (V/m) and electromagnetic field (mG/µT) measurement modes.



Figure 5: The three measurement units supported by the device: mG and µT for electromagnetic fields, and V/m for electric fields.

Taking Measurements

1. Turn on the device.
2. Select the desired measurement mode (electric or electromagnetic field) using the Function/Backlight button ( ).
3. Hold the device and move it slowly towards the object or area you wish to measure.

4. Observe the readings on the LCD screen. The analog bar display provides a quick visual indication of intensity.
5. If the reading exceeds the safety threshold, the device will emit an audible alarm and the indicator light will turn red. Press the Power button ( ) to silence the alarm.

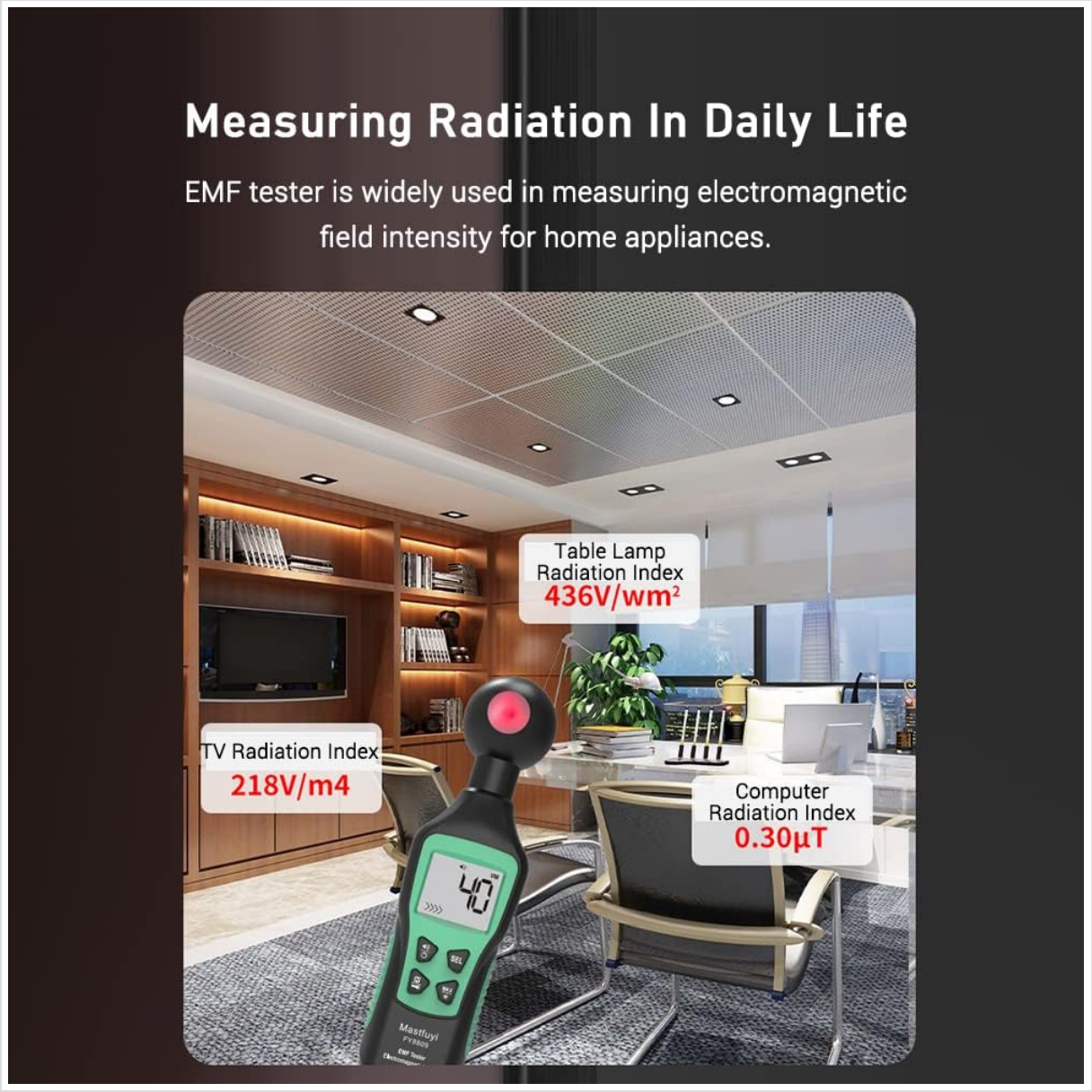


Figure 6: Example of measuring radiation from common household items like a television, table lamp, and computer.

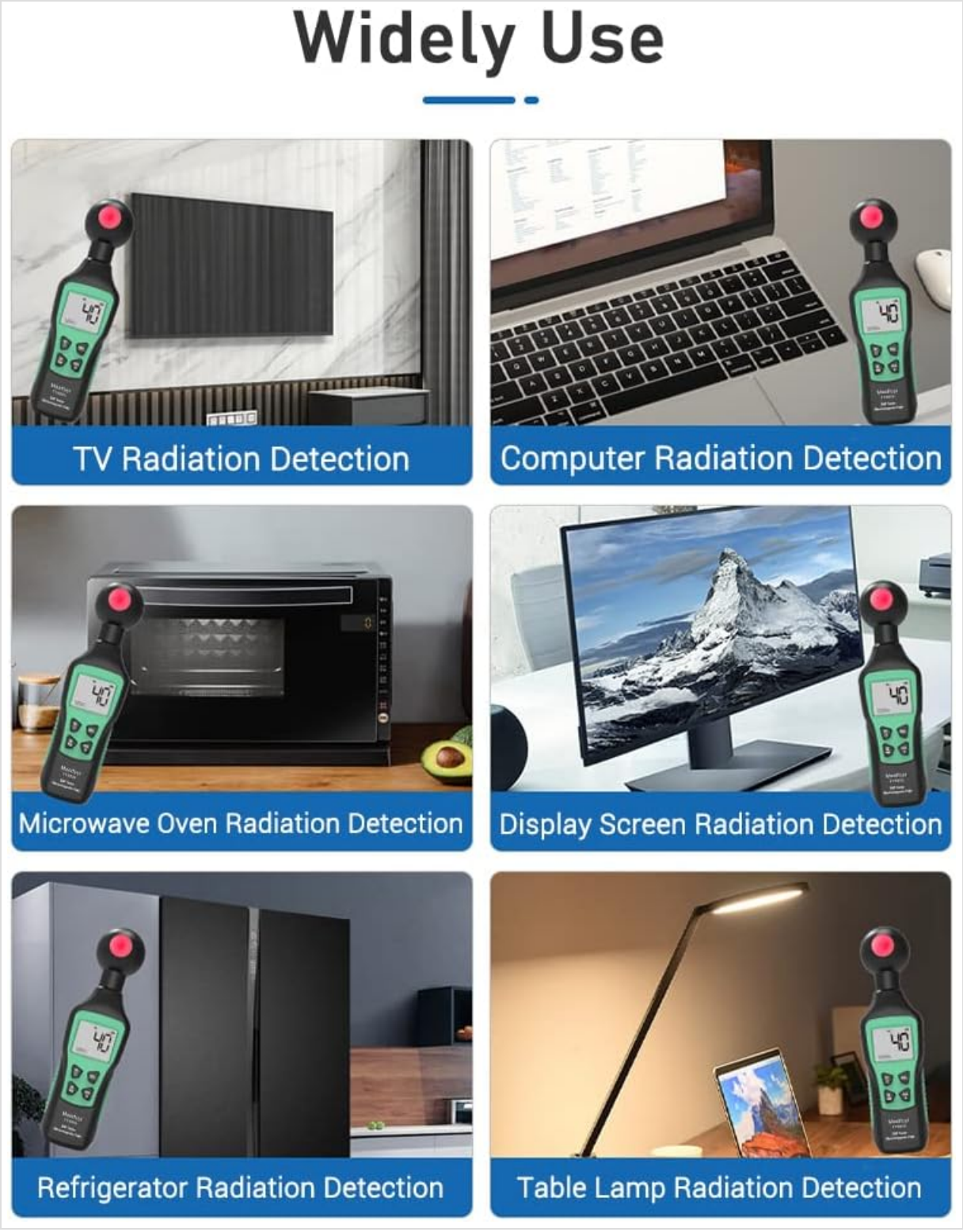


Figure 7: The EMF meter can be used to detect radiation from various appliances including TVs, computers, microwave ovens, display screens, refrigerators, and table lamps.



Figure 8: The device provides an audible and visual alarm when radiation levels exceed safe thresholds.

Additional Functions

- **Data Hold:** Press the Data Hold/MAX button (SEL) briefly to freeze the current reading on the display. Press again to release.
- **Maximum Value Recording:** Press and hold the Data Hold/MAX button (SEL) to display the maximum value recorded during the current measurement session.
- **Backlight:** Long press the Function/Backlight button ( ) to turn the LCD backlight on or off, useful in low-light conditions.
- **Flashlight:** Long press the Unit/Flashlight button (MAX) to activate the built-in flashlight. Long press

again to turn it off.

6. Maintenance

Proper maintenance ensures the longevity and accuracy of your EMF meter.

- **Cleaning:** Use a soft, dry cloth to clean the device. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device in a cool, dry place, away from direct sunlight and extreme temperatures. If storing for an extended period, remove the battery to prevent leakage.
- **Battery Replacement:** Replace the 9V battery when the low battery indicator appears on the display to maintain optimal performance.

7. Troubleshooting

If you encounter issues with your Mastfuyi FY8809, refer to the following common problems and solutions:

- **Device does not turn on:** Check if the 9V battery is installed correctly and has sufficient charge. Replace the battery if necessary.
- **Inaccurate readings:** Ensure the device is not near strong magnetic fields or other electronic interference during measurement. Check battery level.
- **Alarm sounds continuously:** This indicates high radiation levels. Move away from the source or investigate the source of radiation. Press the power button to silence the alarm.
- **Display is dim or flickering:** The battery may be low. Replace the 9V battery.

If problems persist, contact customer support for assistance.

8. Specifications

Parameter	Value
Brand	Mastfuyi
Model	FY8809
Color	Black and Green
Shell Material	ABS
Display	LCD
Electromagnetic Field Measurement Range	0.1-199.9 mG / 0.01-19.99 µT (4Hz ~ 300Hz)
Electromagnetic Field Resolution	0.1mG / 0.01µT
Electromagnetic Field Alarm Threshold	> 4.0 mG / > 0.4 µT
Electromagnetic Field Accuracy	±20%
Electric Field Measurement Range	1-1999 V/m (4Hz ~ 3.5GHz)
Electric Field Resolution	1 V/m
Electric Field Alarm Threshold	> 40 V/m
Electric Field Accuracy	±20%

Parameter	Value
Operating Temperature and Humidity	0~40°C / 32~104°F, 45%~80% RH
Storage Temperature and Humidity	-20~60°C / -4~140°F, 45%~80% RH
Power Supply	1 * 6F22 9V battery (not included)
Product Size	18.9 x 5.4 x 3.5 cm / 7.44 x 2.13 x 1.38 inch
Net Weight	128 g / 4.51 oz
Package Contents	1 * EMF Meter, 1 * User Manual (English)

9. Warranty and Support

Specific warranty information is not provided in the product details. Please refer to the retailer or manufacturer's website for warranty terms and conditions.

For technical support or inquiries, please contact the customer service department of your purchase point or the manufacturer directly.