

ENGINDOT MET01

ENGINDOT MET01 3-in-1 EMF Meter User Manual

Model: MET01 | Brand: ENGINDOT

1. INTRODUCTION

The ENGINDOT MET01 is a versatile 3-in-1 Electromagnetic Field (EMF) detector designed to measure electromagnetic radiation, electric fields, and ambient temperature. This device helps users identify potential sources of radiation in their environment, promoting a safer daily life. It is suitable for use in homes, offices, and various other settings.

2. SAFETY INFORMATION

- Read this manual thoroughly before operating the device.
- Do not attempt to disassemble or modify the meter. This may cause damage and void the warranty.
- Keep the device away from water and high humidity environments.
- Avoid exposing the device to extreme temperatures or direct sunlight for prolonged periods.
- Replace the battery when the low battery indicator appears to ensure accurate readings.
- Dispose of batteries according to local regulations.

3. PACKAGE CONTENTS

Upon opening the package, please verify that all items listed below are present and in good condition:

- 1x ENGINDOT MET01 EMF Meter
- 1x User Manual (this document)

- 1x 9V Battery



Image: Contents of the ENGINDOT MET01 package, showing the meter, user manual, and a 9V battery.

4. PRODUCT FEATURES

- **Wide Application:** Detects invisible radiation from various sources such as TVs, induction cookers, refrigerators, cell phones, computers, electrical wires, Wi-Fi signals, and other low-frequency home appliances.
- **Accurate Measurement:** Measures electromagnetic fields from 0.1 to 199.9mG (resolution 0.1mG/0.01 μ T), electric fields from 1 to 1999V/M (resolution 1V/M), and ambient temperature from 0°C to 50°C (32°F to 122°F).
- **Multifunctionality:** Includes data hold, maximum value measurement, one-key data lock, manual/auto shut-off, adjustable safe value settings, and a large LCD display with sound and light alarm system.
- **Larger Backlight Display:** Ensures clear readings even in low-light conditions. The backlight and flashlight can be toggled by a long press of the MAX/BL button.

- **Sound & Light Alarm:** Provides visual and audible alerts based on radiation intensity:
 - Green light (Mute): Less than 4mG
 - Yellow light (Low sound frequency): 4mG - 40mG
 - Red light (High sound frequency): More than 40mG

5. PRODUCT DIAGRAM AND DISPLAY OVERVIEW

5.1 Button Functions



Image: Overview of the ENGINDOT MET01 EMF Meter, highlighting the functions of its control buttons.

- **ON/OFF Button (Red):** Powers the device on or off. Also controls the sound alarm.
- **SEL Button (Orange):** Selects between testing Magnetic Field (mG/μT) and Electric Field (V/M).
- **°C/°F Button (Orange):** Toggles the temperature unit between Celsius and Fahrenheit.
- **MAX/BL Button (Orange):** Short press for Max Data Hold & Lock. Long press (2 seconds) to turn ON/OFF the LCD backlight and flashlight.

5.2 LCD Display Indicators



Image: Detailed view of the ENGINDOT MET01 LCD display, indicating various measurement units and status icons.

- **Audible Alarm Indicator:** Shows when the sound alarm is active.
- **Max Indicator:** Displays the maximum measured value.
- **Ambient Temperature Display Area:** Shows the current ambient temperature.
- **Temperature Unit:** Indicates whether the temperature is in °C or °F.
- **Measuring Value Display Area:** Shows the current electromagnetic field or electric field reading.
- **Electromagnetic Field Strength Unit:** Displays mG or μ T.
- **Electric Field Strength Unit:** Displays V/M.
- **Low Battery Indicator:** Alerts when the battery needs replacement.
- **Data Hold Indicator:** Shows when the current reading is held on the display.

6. SETUP

6.1 Battery Installation

1. Locate the battery compartment cover on the back of the device.
2. Slide or unclip the cover to open the compartment.
3. Insert the included 9V battery, ensuring correct polarity (+ and - terminals match).
4. Close the battery compartment cover securely.

6.2 Powering On/Off

Press the red **ON/OFF** button to turn the device on. Press and hold the **ON/OFF** button again for a few seconds to power it off.

7. OPERATING INSTRUCTIONS

7.1 Basic Measurement

1. Turn on the device using the **ON/OFF** button.
2. The device will default to EMF measurement (mG or μT). To switch to Electric Field (V/M) measurement, press the **SEL** button. Press again to cycle back to EMF.
3. The ambient temperature will be displayed in the upper left corner. To change the temperature unit between Celsius ($^{\circ}\text{C}$) and Fahrenheit ($^{\circ}\text{F}$), press the **$^{\circ}\text{C}/^{\circ}\text{F}$** button.
4. Move the meter slowly around the area or object you wish to test. The display will show real-time readings.



THREE COLOR INDICATOR LIGHTS

Different Levels of Radiation Intensity Alarm



Image: Examples of using the ENGINDOT MET01 EMF Meter to detect radiation from common household electronics.

7.2 Data Hold and Max Measurement

- **Data Hold:** During measurement, a short press of the **MAX/BL** button will freeze the current reading on the display. The "HOLD" icon will appear. Press again to release and resume real-time measurement.
- **Max Measurement:** When in Data Hold mode, the display will show the maximum value recorded since the device was powered on or the last reset.

7.3 Backlight and Flashlight

To activate or deactivate the LCD backlight and the integrated flashlight, press and hold the **MAX/BL** button for approximately 2 seconds.

7.4 Auto Shut-off

The device features an automatic shut-off function to conserve battery power. If no operation is performed for a certain period (typically 15 minutes), the meter will power off automatically. This feature can usually be disabled or enabled through specific button combinations (refer to the included printed manual for advanced settings if available).

7.5 Wide Applications



Wide Applications

Microwave Oven Testing



Cell Phone Testing



Electric Fan



Computer



Television



Router Testing



Image: The ENGINDOT MET01 EMF Meter is suitable for testing a wide range of electronic devices and environments.

8. MEASUREMENT INTERPRETATION (SOUND & LIGHT ALARM)

The ENGINDOT MET01 provides clear indications of radiation intensity through a combination of colored LED lights and audible alarms:

- **Green Light (Mute):** Indicates a low radiation level, typically less than 4mG. The sound alarm is muted in this range.
- **Yellow Light (Low Sound Frequency):** Indicates a moderate radiation level, ranging from 4mG to 40mG. A low-frequency sound alarm will be active.
- **Red Light (High Sound Frequency):** Indicates a high radiation level, exceeding 40mG. A high-frequency sound alarm will be active, signaling a potentially significant radiation source.

The sound alarm can be toggled on or off by a short press of the **ON/OFF** button while the device is powered on.

9. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Do not use abrasive cleaners or solvents.
- **Storage:** When not in use for extended periods, remove the battery to prevent leakage and store the device in a cool, dry place.
- **Battery Replacement:** Replace the 9V battery promptly when the low battery indicator appears on the LCD to ensure accurate and consistent performance.

10. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Battery is dead or incorrectly installed.	Check battery polarity. Replace with a new 9V battery.
Inaccurate or fluctuating readings.	Low battery. Interference from other electronic devices.	Replace battery. Move away from strong electromagnetic sources. Ensure proper measurement technique.
Backlight/Flashlight not working.	Not activated correctly.	Press and hold the MAX/BL button for 2 seconds to toggle.
Sound alarm not working.	Sound alarm is muted.	Press the ON/OFF button briefly to toggle the sound alarm.

11. SPECIFICATIONS

Feature	Specification
Model Number	MET01
Electromagnetic Field Range	0.1 - 199.9 mG
Electromagnetic Field Resolution	0.1 mG / 0.01 μ T
Electric Field Range	1 - 1999 V/M
Electric Field Resolution	1 V/M

Feature	Specification
Temperature Range	0 - 50 °C / 32 - 122 °F
Measurement Accuracy	±15%
Display Style	LCD
Power Source	9V Battery (included)
Item Weight	200 g
Product Dimensions (L x W x H)	19.1 x 5.2 x 4 cm
Color	Yellow, Green, Red (indicator lights)
Manufacturer	ENGINDOT

12. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the official ENGINDOT website or contact their customer service directly. Details are typically provided on the product packaging or the manufacturer's official online resources.