

Technical Support and E-Warranty Certificate www.vevor.com/support

EMF TESTER

MODEL: EM4556

We continue to be committed to provide you tools with competitive price. "Save Half", "Half Price" or any other similar expressions used by us only represents an estimate of savings you might benefit from buying certain tools with us compared to the major top brands and does not necessarily mean to cover all categories of tools offered by us. You are kindly reminded to verify carefully when you are placing an order with us if you are actually saving half in comparison with the top major brands.





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NEED HELP? CONTACT US!

Have product questions? Need technical support? Please feel free to contact us:

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This is the original instruction, please read all manual instructions carefully before operating. VEVOR reserves a clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there are any technology or software updates on our product.

 Warning-To reduce the risk of injury, user must read instructions manual carefully.

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 This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:(1)This device may not cause harmful interference, and (2)this device must accept any interference received, including interference that may cause undesired operation.

 This product is subject to the provision of European Directive 2012/19/EC. The symbol showing a wheelie bin crossed through indicates that the product requires separate refuse collection in the European Union. This applies to the product and all accessories marked with this symbol. Products marked as such may not be discarded with normal domestic waste, but must be taken to a collection point for recycling electrical and electronic devices

INTRODUCTION

This meter is a multifunctional EMF tester designed to measure electric field (EF), magnetic field (MF) and radio frequency field (RF) radiation level. It is equipped with built-in electromagnetic radiation sensors, which can display the radiation value on LCD screen afterprocessing by the micro-control chip. Users can make reasonable processing or take effective prevention measures toward the electromagnetic radiation according to the test result.

FEATURES

- Measure and display EF, MF and RF radiation level
- Temperature measurement
- Two magnetic field units to select from
- Average / Weighted / Peak / Maximum mode
- Audible alarm
- Battery level indication
- Data hold
- Auto power off

APPLICATIONS

- Electromagnetic Radiation Monitoring Residence, Office, Outdoors, Industrial sites.
- Electromagnetic Radiation Detection
 Mobile phones, Computers, Routers, Microwave ovens.
- Radiation Protection Product Testing Radiation-proof clothes, Radiation-blocking films.

WARNING

- Do not tamper with the internal circuits of the instrument.
 Do not bump or drop the instrument. Keep the instrument clean and dry.
- Replace the battery as soon as the battery level indicator becomes empty (_____).

- If you do not use the instrument for a long period of time, remove the battery from the battery compartment oavoid damage.
- Do not expose the instrument to direct sunlight or to extreme temperatures and humidity.
- Before use, verify the instrument's operation by testing a device (e.g. electric fan, router) which is producing electromagnetic field. Do not use the instrument if it operates abnormally or it is damaged.
- Adhere to local and national safety codes.
- Use caution when working in the vicinity of powerful radiation sources. Long term exposure toelectromagnetic field may be the cause of childhoodleukemia and other forms of cancer.
- Persons with electronic implants (e.g. cardiac pacemakers) should avoid powerful radiation sources.
- Carefully read the operating instructions for equipment generating electromagnetic field that will be measured.
- Do not operate the instrument where explosive gas, vapor or dust is present.
- Please measure from a distance for high-pressure facilities to make sure of safety.

FRONT PANEL



- 1. EF Sensing Area
- 2. RF Sensing Area
- 3. Display
- 4. "FUN "Button

Used to switch the Average / Weighted / Peak / Maximum mode.

5. " UNIT " Button

Short press to change the temperature unit.

Long press to change the magnetic field unit when the tester is in MF measurement mode.

6. " 📣 аро " Button

Short press to enable or disable the audible alarm function. Long press to enable or disable the automatic power off feature.

7. "HOLD "Button

Used to lock or unlock the displayed reading.

8. " MODE " Button

Used to switch the measurement mode between EF, MF and RF.

9. " Ů " Button

Used to turn on or off the tester.

10. MF Sensing Area

DISPLAY DESCRIPTION



No.	Symbol	Description
1	X	The audible alarm function is disabled.
	•	The audible alarm function is enabled.
2	Ξ	The present reading is locked.
3	ELEC	The tester is in EF measurement mode.
4	MAG	The tester is in MF measurement mode.
5	RF	The tester is in RF measurement mode.
6	©	Auto power-off feature is enabled.
7	Ú	Battery level indicator
8	ARREAL CONTRACTOR OF CONTRACTO	Radiation level indicator bars
	MAX	The maximum value is displayed.
9	PEAK	The peak value is displayed.
	WEIGHTED	The weighted value is displayed.
	AVG	The average value is displayed.
10	ALARM	Warning icon. The measured
10		radiation is in a high level.
11	A	Temperature icon
12	V/m	EF unit: volts per meter
	mW/m ²	MF unit: milli Gauss
	uT	RF unit: milliwatts per square meter
	mG	MF unit: micro Tesla
	°C	Temperature unit: Celsius degree
	°F	Temperature unit: Fahrenheit degree

OPERATION INSTRUCTION

1. Power On/Off

Press and hold the " U " button for about 2 secondsto power the tester. The display shows all thesegments briefly and the buzzer sounds a longbeep. Then the tester enters the measurement mode. To power off the tester, press and hold the " U " button again.

Note:

Due to the possible electromagnetic fiel dinterference in the environment, the displaymay show a small value after powering on. This is not the malfunction of the tester.

2. Making Measurements

Hold the tester in hand with the sensing area of the tester slowly approaching the electromagnetic radiation source to be tested (refer to Figure 3). The testing value and the indicator bar(s) show up to indicate the measured radiation intensity.

Note:

The radiation intensity increases as the tester gets closer to a radiation source. The higher the measured radiation intensity, the more indicator bars are displayed and the higher the testing value.

When the measured radiation value exceeds the tester's alarm threshold (EF>40V/m, MF>0.4 μ T, RF>10mW/m2), the warning icon will appear on the display to show that the current radiation level is high. If the audible alarm function is enabled, the buzzer will sound.



Note:

- Default electric field (EF) measurement mode after power-on, and short press the "MODE " button to switch the measurement mode.
- Try different angles approaching the radiation source while making measurements. The highest radiation intensity indicated by the tester is the most accurate measurement result.
- Do not cover the sensors with your hand or other objects while holding the tester.
- 4. During detection, ensure that there are no metals or other conductive materials in the vicinity of the measured object.

3. Measurement Modes

Every time the tester is turned on, it defaults to enter the electric field measurement mode. Briefly press the " **MODE** " button to switch between the following three measurement modes:

• Electric field measurement mode

(The display shows the symbol " ELEC ".)

- Magnetic field measurement mode
 (The display shows the symbol " MAG ".)
- Radio frequency field measurement mode (The display shows the symbol " **RF** ".)

4. Average / Weighted / Peak / Maximum Mode

After each power-on, the tester is in Average mode by default. The display shows the symbol " **AVG** " as an indicator. Short press the " **FUN** " button to sequentially switch to Weighted mode (the symbol " **WEIGHTED** " is displayed), Peak mode (the symbol " **PEAK** " is displayed) and Maximum mode (the symbol " **MAX** " is displayed

-). The four modes are described as follows:
- Average Mode: The display shows the real-time average value of the current measurement.
- Weighted Mode: The display shows the real-time weighted average value of the current measurement.
- Peak Mode: The display shows the peak value detected since entering Peak mode.
- Maximum Mode: The display shows the maximum value measured since entering Maximum mode.

5. Unit Switch

In any measurement mode, short press the " UNIT " button to switch the temperature unit between °C and °F.

In magnetic field measurement mode, long press the " **UNIT** " button to switch the magnetic field unit between mG and μ T.

6. Data Hold

Briefly press the **"HOLD** " button, the current reading is locked. The symbol "

To unlock the reading, press the" HOLD " button gain. The symbol

" 🖸 " disappears.

7. Audible Alarm Function

When the tester is turned on, the audible alarm function is on. The display shows the symbol " 16 " as an indicator.

Briefly press the "

8. Auto Power Off

Long press the "

is on.

Without any button press in about 10 minutes, the tester will automatically power off.

BATTERY CHARGING/REPLACEMENT

- 1. Use a Phillips screwdriver to remove the screw that secures the battery compartment.
- 2. Remove the battery cover in the direction indicated by the arrow on the battery cover.
- 3. Replace the old battery with a new one of the same type, make sure that the polarity connections are correct.
- 4. Reinstall the battery cover and secure the screw.



RECOMMENDATION

It is recommended to measure the presence of the electromagnetic field inside and outside of your home and business locations regularly. For area where a high level of electromagnetic radiation is detected by the tester, re-arrangement of this region is lightly recommended. Always try the best to avoid long term exposure in the strong electromagnetic field.

SPECIFICATION

	EF: 1V/m
Resolution	MF: 0.1mG/0.01µT
	RF: 0.01mW/m ²
	4 digits
Range	About 0.4 seconds
	9V battery, 6F22 or equivalent, 1 piece
Alarm	EF: 1~1999V/m
Threshold	MF: 0.1~999.9mG/0.01~99.99µT
Theshold	RF: 0.01~99.99mW/m ²
Display	Display 4 digits
	About 0.4 accordo
Sampling Time	About 0.4 seconds
Sampling Time	Battery 9V battery,
Battery	Battery 9V battery, 6F22 or equivalent, 1 piece
Battery Auto Power Off	Battery 9V battery, 6F22 or equivalent, 1 piece No button press for about 10 minutes.
Battery Auto Power Off Operating	About 0.4 seconds Battery 9V battery, 6F22 or equivalent, 1 piece No button press for about 10 minutes. Temperature: 0°C to 40°C
Battery Auto Power Off Operating Environment	About 0.4 seconds Battery 9V battery, 6F22 or equivalent, 1 piece No button press for about 10 minutes. Temperature: 0°C to 40°C Relative Humidity: < 80%
Battery Auto Power Off Operating Environment Storage	About 0.4 seconds Battery 9V battery, 6F22 or equivalent, 1 piece No button press for about 10 minutes. Temperature: 0°C to 40°C Relative Humidity: < 80% Temperature: -10°C to 50°C
Battery Auto Power Off Operating Environment Storage Environment	About 0.4 secondsBattery 9V battery,6F22 or equivalent, 1 pieceNo button press for about 10 minutes.Temperature: 0°C to 40°CRelative Humidity: < 80%Temperature: -10°C to 50°CRelative Humidity: < 90%
Sampling Time Battery Auto Power Off Operating Environment Storage Environment Dimensions	About 0.4 seconds Battery 9V battery, 6F22 or equivalent, 1 piece No button press for about 10 minutes. Temperature: 0°C to 40°C Relative Humidity: < 80% Temperature: -10°C to 50°C Relative Humidity: < 90% 167mm x 85mm x 35mm

NOTE

- 1. This manual is subject to change without notice.
- 2. Our company will not take the other responsibilities for any loss.
- 3. The contents of this Manual can not be used as the reason to use the tester for special application.

ACCESSORIES LIST

- 1. Instruction manual *1
- 2. Storage bag *1
- 3. 9V lithium battery *1
- 4. USB charging cable *1
- 5. Phillips screwdriver*1

DISPOSAL OF THIS ARTICLE

Dear Customer,

If you at some point intend to dispose of this article, then please keep in mind that many of its components consist of valuable materials, which can be recycled.

Please do not discharge it in the garbage bin, but check with your local council for recycling facilities in your area.



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