# Electromagnetic Radiation Detector Instruction manual



Model No.DM161

## INTRODUCTION

Thank you for purchasing DM161 EMF Tester, which is designed to measure the electromagnetic field strength and electric field strength of household appliances such as television, electric fan, etc. Please read this user's manual carefully and thoroughly beforeusing the instrument.

## Product Description

Electromagnetic radiation tester successfully electric field radiation, magnetic field radiation compatible test and achieve the best testresults, used to test and understand the status of electromagnetic radiation in indoor and outdoor environments, through the micro-controlled chip processing, to LCD digital display radiation values. According to the test results of electromagnetic radiation for reasonable treatment or effective avoidance.

The United States in IEEE Spect rum 1995 issue 10 has long published 60Hz magnetic induction strength shall not exceed 0.2μT, otherwise it will be harmful to the human body. At present, Sweden has officially recognized the strength of low-frequency magnetic fields above 0.2μT harmful to humans.

2001, the International Agency for Research on Cancer has identified magnetic pollution as a cancer-causing factor, and proposed to live in an environment where the magnetic field strength exceeds 0.4μT, the incidence of childhood leukemia is significantly higher.

## PRODUCT OVERVEIW

Product button name display chart:




a. LCD display

b. Power button

c. Volume button

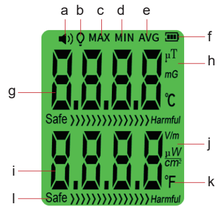
d. Average/Peak mode switch button

e. Signal receiving area

f. Battery installation area

g. Product holder

## LCD full screen display chart;




a.Audible alarm indicator

b.Screen brightness

c.MAX indicator

d.Mini indicator

e.AVG indicator

f.Electricity display light

g.Magnetic field measurement value

h.Magnetic field strength unit

i.Electric field measurement value

j.Electric field strength unit

k.Temperature unit

l.Safety range display area

## TECHNICAL DATA

| | Electric field | Magnetic Fields | Temperature |
|---|---|---|---|
| Unit | V/m | μT | ℃/F |
| Precision | 1V/m | 0.01μT | 0.1℃/F |
| Measurement range | 1V/m-9999V | 0.01μT-99.99 | -10℃-70℃ |
| Alarm Threshold | 40V/m | 0.7μT | — |
| Readout display | | 3-1/2 digit LCD display | |
| Test width | | 5Hz-3500Hz | |
| Sampling time | | Approx. 0.4 seconds | |
| Test Mode | | Dual-mode co-testing | |
| Operating Temperature | | 0°C~50°C/0°F~122°F | |
| Operating Humidity | | ≤80%RH | |
| Operating Voltage | | DC3V | |
| Power supply | | AA1.5V * 2pcs | |
| Dimension | | 157.5*70*31mm | |
| Weight | | 125g | |

## Operating Instructions




1. Press the power switch key to turn on the power, the current electric field and magnetic field values can be displayed after the full screen display. Press the power switch key to shut down. The meter will shut down after 3 minutes without any key operation.

2. handheld instrument, the front induction area slowly approach the electromagnetic radiation source to be measured, such as the actual radiation value in the instrument test specifications, theinstrument will have a numerical display. If the instrument does not read the radiation source of electromagnetic radiation value is less than the minimum reading of the machine 1V / m or 0.01pT.

3. More than the alarm threshold (electric field: 40V / m; magnetic field: 0.7μT), the instrument will sound, light, screen display simultaneous alarm prompts.




4. Power on the default normal detection mode "AVG". Short press the "MAX" key, the instrument screen display "MAX" indicates that the maximum reading lock mode, in the detection of higher values will change, no detection than the higher value to retain the current value of the same.

If you do not need the maximum value lock mode, press the MAX key twice. Short press the 'MAX' key again, the instrument screen will display "MIN" to indicate the minimum reading lock mode, which will change when a smaller value is detected and keep the current value unchanged if a smaller value is not detected.

If you do not need the minimum value lock mode short press MAX key can be. Long press the right button screen switch to "C / F" temperature and humidity display.

Turn off the backlight at the same time. Press and hold the right button again to return.




5. Turn on the default off Bi alarm. Short press the left button, the screen displays the " 🔔 " symbol to open the alarm. Short press again to turn off. Long press the left button to clear the data.

6. Insert the battery. Open the battery cover and insert two new AA batteries (included) as shown.

NOTE:

- When inserting a new battery, make sure the polarity is correct When " ▬▭ " appears on the display, it indicates that the
- battery power is low, please replace the battery in time. Remove the battery
- When storing the unit or when you do not intend to use it.

## WARNING:

- Check the instrument carefully before use. If you find any damage or other problems, please do not use and contact us.
- Do not disassemble the meter and change the internal wiring to avoid damage to the meter.
- Do not store or use in high temperature, high humidity,flammable and explosive environment.

Attachment.1

| Common Appliances | Electric field strength (V/m) | Magnetic field range (μT)/3cm | Magnetic field range (μT)/30cm |
|---|---|---|---|
| Electric hair dryer | 80 | 6- 2000 | 0.01- 7 |
| Electric shaver | 40 | 15- 1500 | 0.08- 9 |
| Vacuum Cleaner | 50 | 200- 800 | 2- 20 |
| Microwave oven | 130 | 73 - 200 | 4-8 |
| Portable radio | 180 | 16- 56 | 1 |
| Electric stove | 130 | 1- 50 | 0.15- 0.5 |
| Washing machine | 130 | 0.8- 50 | 0.15-3 |
| Electric iron | 120 | 8- 30 | 0.12- 0.3 |
| Dishwasher | 130 | 3.5- 20 | 0.6- 3 |
| Laptop | 50 | 0.5- 30 | < 0.01 |
| Refrigerator | 120 | 0.5- 1.7 | 0.01- 0.25 |
| Color TV | 60 | 2.5 - 50 | 0.04- 2 |

## Customer Service

If you have any questions or concerns about your new product, please contact our friendly customer support.

Products are covered by a one-year warranty from the date of purchase.E-mail: sales@langder.com; sales01@hotgooo.cn

Tel: 86-0755-29128682

Facebook: facebook.com/CIA0CIA0

Before contacting customer support, please have your invoice and order