

Erickhill

電磁波計
EMF meter

RT-100 USERS MANUAL

RT-100 取扱説明書



CE RoHS FC
MADE IN CHINA

Contact us: support@erick-hill.com

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I . Introduction

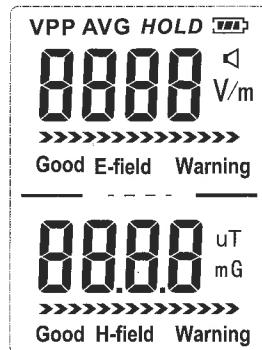
Electromagnetic field meter (EMF meter) can test electric field radiation and magnetic field emission to reach the optimal test result. It is used to test and understand electromagnetic radiation in indoor and outdoor situation. It is equipped with a built-in electromagnetic radiation sensor, which can display the radiation value on LCD digital display after processing by the micro-control chip. You can make reasonable processing or taking effective prevention measures toward the electromagnetic radiation according to the test result.

Strong electromagnetic radiation may and destroy original bioelectric current and biomagnetic field in human body and cause abnormality of the original electromagnetic field in human body. The elderly, children and the pregnant are susceptible to electromagnetic radiation.

Artificial electromagnetic radiation sources include all kinds of electric appliances and devices. By fair use of household appliances and taking reasonable precaution measures, electromagnetic radiation can be effectively prevented and reduced.

II. LCD display and part names

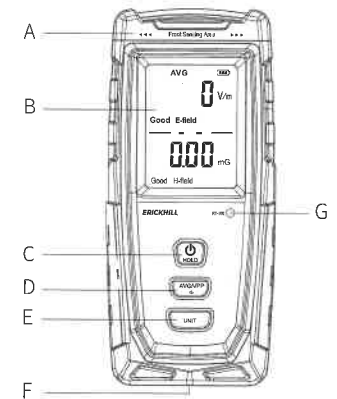
1. Full screen LCD: as shown in the figure below



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III. Part names: as shown in the figure below


- A. Front sensing area
- B. LCD display
- C. Power On and Off / Hold button
- D. Average / Peak value mode switch button / Buzzer switch
- E. Unit switch button
- F. Charging port
- G. Indicator light



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IV.Operation Instruction

1.Turn on/Turn off

Short press “

2.Measurement

Hold the instrument with hand, with front sensing area slowly approaching electromagnetic radiation source to be tested.


Note: Please do not cover the sensors at the top of the meter with your hand or other objects.

If the actual radiation value is within specification range, the value will be displayed; When the reading more than 40V/m or 4 μ T, it will be warning and the screen turns red, the indicator light will flash and the buzzer will alarm;


If the instrument has no reading, the electromagnetic radiation value of radiation source is lower than the minimum value of detector, namely 1V/m or 0.01 μ T.

Note: Please measure from a distance for high-pressure facilities to make sure of safety!


3.Data HOLD

After startup, short press “

4.Average / peak value mode

After startup, short press “AVG / VPP/ 


5.Buzzer switch

After startup, long press “AVG / VPP/ 

6.Unit switch

After startup, short press UNIT to switch the magnetic field unit between uT and mG.

7.Charging indication

When battery power shows “

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V.Function features

- One meter for two usages, simultaneous detection of electric and magnetic field radiation;
- Color-screen display;
- Sound-light alarm, automatic alarm above safe value;
- Data hold, press one button to lock radiation value;
- LCD graphic display of the radiation value trend;
- Radiation assessment, indicating if current radiation value is at safe level;
- Fashionable design, easy to operate with one hand and move or make field measurement.

VI.Range of application

Electromagnetic radiation monitoring: House and apartment, office, outdoor and industrial sites;

Electromagnetic radiation test: Mobile phone, computer, TV set, refrigerator and high voltage cable radiation test;

Radiation protection product test: Test effects of radiation-proof clothes, radiation-proof film and other prevention articles.

VII.Technical parameters

	AC Electric field	Magnetic field
Unit	V/m	μ T / mG
Range	1V/m-1999V/m	0.01 μ T-99.99 μ T / 0.1 mG - 999.99 mG
Resolution	1V/m	0.01 μ T / 0.1 mG
Alarm threshold	40V/m	0.4 μ T / 4mG
Reading display	3-1/2 digit LCD	
Measurement bandwidth	5Hz—3500MHz	
Sampling time	About 0.4 second	
Measurement mode	Dual mode at the same time	
Overload indication	Maximum value of measurement range on LCD	
Operation temperature	0℃~50℃	
Operation humidity	Relative humidity below 80%	
Working voltage	3.7V	
Power	3.7V lithium battery	
Dimensions	60* 25* 133mm	
Weight	121g	

Electric/Magnetic field zero out

After turning on the instrument, press and hold the AVG/VPP and UNIT keys at the same time. After about 2 seconds, the zero reset interface will be entered. At this time, the electric field value or magnetic field value will keep flashing; short press the AVG/VPP or UNIT button can switch the electric field or magnetic field; when the electric field value is less than 10V/m, press the "⏻" button and the electric field value will return to zero; when the magnetic field value flashes and the value is less than 0.1 μ t, press the "⏻" button and the magnetic field value will return to zero. After zero out, long press the AVG/VPP or UNIT button to exit the zeroing interface or long press the "⏻" button to shut down.