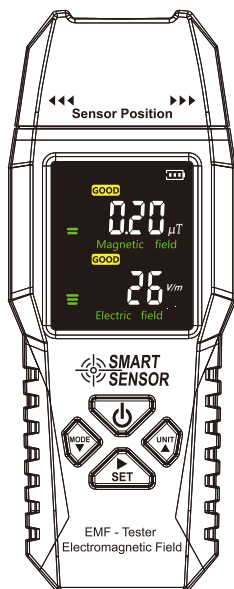




Electromagnetic Field Radiation Tester User Manual



Version code: 6-ST1393-0116-00

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Introductions

This meter is an instrument that can detect the electric field strength and magnetic field strength, also can measure the environmental temperature. It is very small, can be hand carry for outdoor test, and high sensitivity. Can setup the alarm level for electric field and magnetic field test, alarm with light and sound. Suitable to measure the electro-magnetic generated machine, measure low frequency and high frequency radiation appliance. For example:

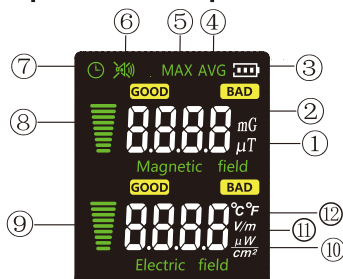
a. All three major kinds of EMFs (magnetic fields, electric fields and radio/microwaves fields) can be detected with this meter.

b. Detects wide range of frequencies, including those from televisions, computers, microwave ovens, electric alarm clocks, and fluorescent light.

1.Features and applications

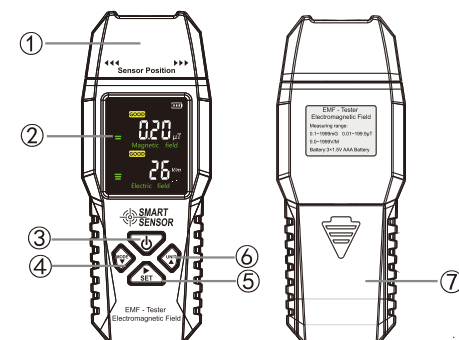
- 1.1 Detect Frequency range:
 - 1.1.1 Magnetic field: 20Hz ~ 300Hz
 - 1.1.2 Electric field: 20Hz ~ 3500MHz
- 1.2 Accuracy detect and measure working frequency range:
 - 1.2.1 The electromagnetic field strength of all home appliance, industrial equipment, power cable that work at 50Hz/60Hz.
- 1.3 Measure the environment electric field strength, magnetic field strength and temperature value.
- 1.4 No any interference to the appliance and equipment under test.

2.LCD panel description



- 1) Magnetic field strength unit
- 2) Magnetic field strength area
- 3) Battery power indication
- 4) Average value of data
- 5) Maximum value of data
- 6) Alarm sound icon
- 7) Auto power off icon
- 8) Magnetic field strength bar graph
- 9) Electric field strength bar graph
- 10) Electric field strength area
- 11) Electric field strength unit
- 12) Temperature unit (°C/°F)

3. Outlook of the unit



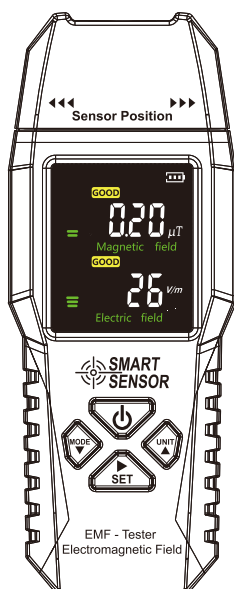
- 1) Sensor position
- 2) Measured field strength display area
- 3) Power On/Off key
- 4) Maximum and Average value selection key
- 5) Magnetic and Electric field alarm value setup key
- 6) Unit conversion key
- 7) Battery door.

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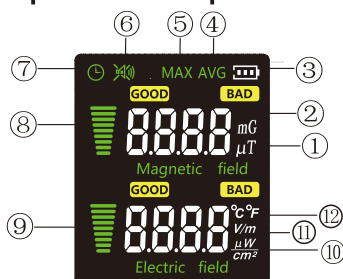
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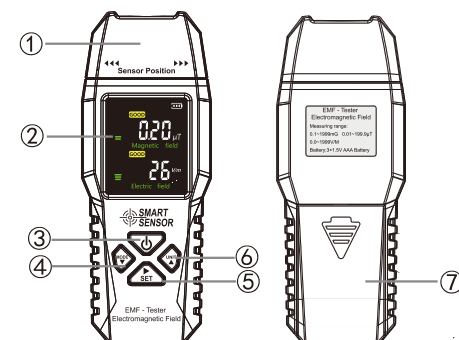
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4. Preparation issue before use

- 4.1 Before use, please open the battery door at the back of the unit, installed 3 AAA size battery into the battery compartment with correct polarity.
- 4.2 Close the battery door and start to use the instrument.
- 4.3 If you find the " " icon become empty, please replace the battery immediately to ensure the instrument have enough energy to work fine.

5. Operation instruction

- 5.1 Power On: Depress " " key to turn it on, all segment of the LCD fully display then unit goes to normal measurement mode, will show the environment field strength of electric and magnetic field and temperature value.
- 5.2 Maximum and Average value: At normal measurement mode, depress "MODE▼" key, can select the Maximum value and Average value in sequential.
- 5.3 Electric/Magnetic field strength and Temperature measurement selection: At normal measurement mode, depress "UNIT▲" key, can select Electric/magnetic field or Temperature measurement in sequential.
- 5.4 At normal temperature measurement mode, depress "UNIT▲" key can select the temperature unit (°C/°F) in sequential.
- 5.5 Magnetic field strength unit selection (μT/mG): At normal measurement mode, depress "UNIT▲" key can select the unit in [μT/mG] micro Tesla and milli-Gauss.
- 5.6 Magnetic/ Electric field strength alarm setup: At normal measurement mode, depress "SET▶" key should go to Electric field strength (μT) alarm setup mode.
 - a) Depress "MODE▼" key reduce the value, long depress it can fast reduce the value.
 - b) Depress "UNIT▲" key increase the value, long depress it can fast increase the value, unit value completed, depress " SET▶ " key to save the setup value and then go to Electric Field strength (V/m) alarm setup mode.

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- 5.7 Electric Field strength (V/m) alarm setup mode:
 - a) Depress "MODE▼" key reduce the value, long depress it can fast reduce the value.
 - b) Depress "UNIT▲" key increase the value, long depress it can fast increase the value, unit value completed, depress "SET ▶" key to save the setup value and then go back to normal measurement mode.
- 5.8 Auto Power off and manual power off setup: AT normal measurement mode, depress "MODE▼" key more than 3 second goes to power off setup mode. At that mode depress " " key can select ON or OFF mode in sequential.
 - a) If you selected "ON" mode, it means unit will power off after 5 minutes without any operation.
 - b) If you selected "OFF" mode, it means you must turn the unit manually hand, no auto power off function.
- 5.9 Zero point setup of Magnetic/Electric field:
 - a) At power off status, depress " " key and "MODE▼" key at the same time until LCD display on, then the value of Magnetic field strength value back to zero.
 - b) At power off status, depress " " key and "UNIT▲" key at the same time until LCD display on, then the value of Electric field strength value back to zero.
- 5.10 Alarm Sound turn on or off: At normal measurement mode, depress " " key to turn the alarm sound on or off in sequential.
- 5.11. Power Off: At normal measurement mode, depress " " key until LCD no display, unit turn off.
- 5.12. Hand held measurement: Hold the Electric/Magnetic field strength tester by hand, slowly move the sensor head towards the measured object, if your direction is correct, you will find the value of Electric/Magnetic field strength will increase graduate.
- 5.13. Positioning the tester at different angles to the object while measuring. This will affect the reading, By trying different angles approaching the object while measuring to get the maximum reading.

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6. Specification

Magnetic field strength range	0.01 ~199.9μT (0.1~1999mG)
Electric field strength range	0~1999V/m
Magnetic field strength resolution	0.01uT/0.1mG
Electric field strength resolution	1V/m
Magnetic field strength frequency range	20Hz ~300Hz
Electric field strength frequency range	20Hz~3500MHz
Temperature measurement range	-10 °C~ 50 °C
Temperature resolution	0.1°C
Power	3×1. 5V AAA Battery

7. SPECIAL NOTICE

- 7.1 Please place the sensor head in front of the object under test.
- 7.2 If you want to reset the unit to zero point, please selected a no Electric/Magnetic signal area. Otherwise you can't get the zero point.
- 7.3 Please don't store it at high temperature or high humidity environment.
- 7.4 Please don't store it at high concentration salt or high sulfur environment.
- 7.5 If don't use the instrument for a long period, please take off the battery to prevent leakage of battery.
- 7.6 If necessary, wipe the outside surface of the unit, please use the soft, clean cloth. Never use any solvents or cleaning solutions.

8. SPECIAL DECLARATION

8.1 You, as the end user, are legally bound (Battery ordinance) to return all used batteries and accumulator: **disposal in the household garbage is prohibited** You can hand over your used batteries / accumulators at the collection points in your community or wherever batteries / accumulator is sold!
Disposal: Follow the valid legal stipulations in respect of the disposal of the device at the end of its life cycle.
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