

Data Sheet

EMF 1394

RS-232 ElectroMagnetic Field Tester (EMF Tester)

1. FEATURES

- ◆ The EMF tester is designed to provide user a quick, reliable and easy way to measure electromagnetic field radiation levels around power lines, home appliances and industrial devices.
- ◆ The EMF tester is a cost effective, hand-held instrument designed and calibrated to measure electromagnetic field radiation at different bandwidths down to 50Hz/60Hz.
- ◆ Display micro Tesla & milli Gauss in the same tester.
- ◆ Data hold function.
- ◆ RS-232 Optical interface.
- ◆ 999 Datalogging capacity.

2. APPLICATIONS

- ◆ This EMF tester is specifically designed to determine the magnitude of electromagnetic filed radiation generated by power lines, computer's monitor, TV sets, video machinery and many other similar devices.

3. SPECIFICATIONS

Display	3-1/2 digits. Max. indication 1999
Range	20/200/2000 milli Gauss 2/20/200 micro Tesla
Resolution	0.01/0.1/1 milli Gauss 0.001/0.01/0.1 micro Tesla
Number of Axis	Triple axis
Band Width	30 Hz to 2000 Hz
Accuracy	20mG/2 μ T \pm (3% + 30d) \pm (3%+3d) at 50Hz or 60HZ \pm (5%+3d) at 40Hz to 200HZ -3dB at 30Hz to 2000HZ
Over-Input	Display shows "OL"
Datalogger	999 reading
Sampling Time	Approx. 0.5 second
Battery	6 pcs size AAA (Alkaline Battery)
Battery Life	Approx. 100 hours
Operating Temp and Humidity	0 to 40°C (32 to 104°F) below 80%RH
Storage Temp and Humidity	-10 to 60°C below 70%RH
Weight	Approx. 165g
Dimension	154x72x35 mm
Accessories Included	Operation Manual, 6 pcs size AAA (Alkaline Battery), Software for windows, RS-232 Cable.



TES-92 ElectroSmog Meter



FEATURES

- 50 MHz to 3.5 GHz frequency range.
- For isotropic measurements of electromagnetic fields.
- Non-directional (isotropic) measurement with three-channel measurement probe.
- High dynamic range due to three-channel digital results processing.
- Configurable alarm threshold and memory function.
- Easy to use



APPLICATIONS

- High frequency (RF) electromagnetic wave field strength measurement.
- Mobil phone base station antenna radiation power density measurement.
- Wireless communication applications (CW , TDMA , GSM , DECT).
- Wireless LAN (Wi-Fi) electromagnetic detection, installation.
- Spy camera, wireless bug finder.
- Cellular/Cordless phone radiation safety level.
- Microwave oven leakage detection.
- Personal living environment EMF safety.
- RF power measurement for transmitters.



SPECIFICATION

ELECTRICAL SPECIFICATIONS

Sensor type	Electric field (E)
Frequency range	50MHz to 3.5 GHz

Directional characteristic	Isotropic, 3-dimensional
Measurement range (CW signal>50MHz)	20mV/m to 108.0V/m
Absolute error(@1V/m and 50MHz)	± 1.0dB
Frequency response (taking into account typ. CAL factor)	± 1.0dB (50MHz to 1.9 GHz) , ±2.4dB(1.9GHz to 35GHz)
Isotropy deviation	Type. ±1.0dB 於 f>50 MHz
Overload limit	4.2W/m ² (40 V/m)
Temperature response(0 to 50 °C)	± 1.5dB
Note	<p>Unless otherwise stated, all specifications hold under the following assumptions:</p> <p>Sinusoidal signals; device in far-field of a source; probe head pointing toward source; ambient temperature +23 °C±3 °C;relative air humidity 25% to 75%.</p>

GENERAL SPECIFICATIONS

Measurement method	Digital , triaxial measurement
Directional characteristic	Isotropic, triaxial
Measurement range selection	One continuous range
Display resolution	0.1mV/m, 0.1 µA/m, 0.1 µW/m ² , 0.001 µW/cm ²
Setting time	Typically 1s (0 to 90% of meas. value)
Display refresh rate	Typically 400mS
Display type	LCD 4 digit
Audible alarm	Buzzer
Measurement units	mV/m , V/m , µA/m , mA/m , µW/m ² , mW/m ² , µW/cm ²
Measurement display value	Instantaneous measured value, maximum value or average value since power-on.
Measurement alarm function	Adjustable threshold with ON/OFF
Measurement calibration factor CAL	Adjustable

Manual data memory and read storage	99 sets (only recall by meter)
Battery	9V
Battery life	>15 hours
Accessory	9V battery, carrying case & manual

Close Window

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