

## TES-92 ElectroSmog Meter

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### 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, ECT).
- Wireless LAN (Wi-Fi) 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.

## 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 <sup>2</sup> (40 V/m)
Temperature response(0 to 50 °C)	± 1.5dB

## 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 <sup>2</sup> , 0.001 μW/cm <sup>2</sup>
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 <sup>2</sup> , mW/m <sup>2</sup> , μW/cm <sup>2</sup>
Measurement display value	Instantaneous measured value, maximum value or average value since power-on.
Measurement average time (in per-set steps)	4s to 15 minutes
Measurement alarm function	Adjustable threshold with ON/OFF
Calibration factor CAL	Adjustable
Data memory and read storage	99 sets ( only recall by meter )
Battery	9V
Battery life	>15 hours
Accessory	9V battery, carrying case & manual