

# TES-92 ElectroSmog Meter

- 50MHz to 3.5GHz
- 3 dimensions measurement
- Alarm / Memory function
- Easy to Use

## Detects:

Cellular Phone  
Transmission Station  
Microwave Oven  
Spy Camera, wireless bug  
Wireless Lan (Wi-Fi)



# 92 ELECTROSMOG METER

## FEATURE:

- 50MHz to 3.5GHz 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).
- RF power measurement for transmitters.
- 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.

## ELECTRICAL SPECIFICATIONS

Sensor type	Electric field (E).
Frequency range	50MHz to 3.5GHz
Directional characteristic	Isotropic, 3-dimensional.
Measurement range (CW signal > 50MHz)	38mV/m to 11V/m. 3.8 $\mu$ W/m <sup>2</sup> to 320mW/m <sup>2</sup>
Absolute error (@1V/m and 50MHz)	$\pm$ 1.0dB
Frequency response (taking into account typ. CAL factor)	$\pm$ 1.0dB (50MHz to 1.9GHz) $\pm$ 2.4dB (1.9GHz to 3.5GHz)
Isotropy deviation	Typ. $\pm$ 1.0dB for f >50MHz
Overload limit	4.2W/m <sup>2</sup> (40V/m)
Temperature response (0 to 50°C)	$\pm$ 1.5dB

### Note :

Unless otherwise stated, all specifications hold under the following assumptions :  
Sinusoidal signals; device in far-field of a source; probe head pointing toward source; ambient temperature +23°C $\pm$ 3°C; relative air humidity 25% to 75%.

## GENERAL SPECIFICATIONS

Measurement method	Digital, triaxial measurement
Directional characteristic	Isotropic, triaxial
Measurement range selection	One continuous range
Display resolution	0.1mV/m, 0.1 $\mu$ A/m, 0.001 $\mu$ W/m <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, $\mu$ A/m, mA/m, $\mu$ W/m <sup>2</sup> , mW/m <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
Measurement calibration factor CAL	Adjustable
Manual data memory and read storage	99 sets (only recall by meter)
Battery	9V
Battery life	>15hours
Accessory	9V battery, Carrying Case & Manual



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