

## M-TES-92 ElectroSmog Meter

- 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) 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.

## ELRCTRICAL SPECIFICATIONS

<b>Sensor type</b>	Electric field (E)
<b>Frequency range</b>	50MHz to 3.5 GHz
<b>Directional characteristic</b>	Isotropic, 3-dimensional
<b>Measurement range(CW signal&gt;50MHz)</b>	38mV/m to 11V/m
<b>Absolute error(@1V/m and 50MHz)</b>	± 1.0dB
<b>Frequency response(taking into accountb typ.CAL factor)</b>	± 1.0dB (50MHz to 1.9 GHz) , ±2.4dB(1.9GHz to 35GHz)
<b>Isotropy deviation</b>	Type. ±1.0dB for f>50 MHz
<b>Overload limit</b>	4.2W/m <sup>2</sup> (40 V/m)
<b>Temperature response(0 to 50°C)</b>	± 1.5dB
<b>Note</b>	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 ±3°C;relative air humidity 25% to 75%.

## GENERAL SPECIFICATIONS

<b>Measurement method</b>	Digital , triaxial measurement
<b>Directional characteristic</b>	Isotropic, triaxial
<b>Measurement range selection</b>	One continuous range
<b>Display resolution</b>	0.1mV/m, 0.1 μA/m, 0.01 μW/m <sup>2</sup>
<b>Setting time</b>	Typically 1s ( 0 to 90% of meas. value)
<b>Display refresh rate</b>	Typically 400mS
<b>Display type</b>	LCD 4 digit
<b>Audible alarm</b>	Buzzer
<b>Measurement units</b>	mV/m , V/m , μA/m , mA/m , μW/m <sup>2</sup> , mW/m <sup>2</sup>
<b>Measurement display value</b>	Instantaneous measured value, maximum value or average value since power-on.
<b>Measurement average time(in per-set steps)</b>	4s to 15 minutes
<b>Measurement alarm function</b>	Adjustable threshold with ON/OFF
<b>Measurement calibration factor CAL</b>	Adjustable
<b>Manual data memory and read storage</b>	99 sets ( only recall by meter )
<b>Battery</b>	9V
<b>Battery life</b>	>15 hours
<b>Accessory</b>	V battery, carrying case & mamaul