

# TES-593 ELECTROSMOG METER (3 axis)

- Frequency range 10MHz to 8.0GHz.
- 3 axis isotropic measurements of EMF.
- Non-directional (isotropic) measurement with three-channel measurement probe.
- High dynamic range.
- Configurable alarm threshold and memory function.
- Easy & safety to use.



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## 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	10MHz to 8GHz
Directional characteristic	Isotropic, 3-dimensional.
Measurement range (CW signal > 50MHz)	20mV/m to 108.0V/m , 53µA/m to 286.4mA/m , 1µW/m <sup>2</sup> to 30.93W/m <sup>2</sup> , 0µW/cm <sup>2</sup> to 3.093mW/cm <sup>2</sup>
Dynamic range Typical	Typical 75dB
Absolute error (@1V/m and 50MHz)	±1.0dB
Frequency response (taking into account typ. CAL factor)	±1.0dB (50MHz to 1.9GHz) ±2.4dB (1.9GHz to 3.5GHz)
Isotropy deviation	Typ. ±1.0dB for f >50MHz
Overload limit	0.42mW/cm <sup>2</sup> (40V/m)
Temperature response (0 to 50°C)	±0.5dB

## GENERAL SPECIFICATIONS

Measurement method	Digital, triaxial measurement
Directional characteristic	Isotropic, triaxial
Measurement range selection	One continuous range
Display resolution	0.1mV/m, 0.1µA/m, 0.1µW/m <sup>2</sup> , 0.001µW/cm <sup>2</sup>
Setting time	Typically 1s (0 to 90% of meas. value)
Display refresh rate	Typically 0.5 seconds
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, average value, or maximum average value.
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
Dimensions	Approx. 67(W) x 60(T) x 247 (L)mm
Weight (including battery)	Approx. 260g



**TES ELECTRICAL ELECTRONIC CORP.**

7F, No.31 Lane 513, Rui Guang Rd., Neihu Dist, Taipei , Taiwan

Tel : (02) 2799-3660 Fax : 886-2-2799-5099

E-mail : tes@ms9.hinet.net

<http://www.tes.com.tw>

