

TES-593 ElectroSmog Meter



FEATURES

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



APPLICATIONS

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



SPECIFICATION

ELECTRICAL SPECIFICATIONS

Sensor type	Electric field (E)
Frequency range	10MHz to 8GHz
Directional characteristic	Isotropic, 3-dimensional
Measurement range (CW signal > 10MHz)	20mV/m to 108.0V/m 53mA/m to 286.4mA/m $1\mu\text{W}/\text{m}^2$ to $30.93\text{W}/\text{m}^2$ $0\mu\text{W}/\text{cm}^2$ to $3.093\text{mW}/\text{cm}^2$
Absolute error (@1V/m and 10MHz)	$\pm 1.0\text{dB}$

Frequency response (taking into account typ. CAL factor)	$\pm 1.0\text{dB}$ (10MHz to 1.9 GHz) $\pm 2.4\text{dB}$ (1.9GHz to 8GHz)
Isotropy deviation	Type. $\pm 1.0\text{dB}$ 於 $f > 10\text{ MHz}$
Overload limit	10.61mW/cm^2 (200 V/m)
Temperature response (0 to 50 °C)	$\pm 0.5\text{dB}$

GENERAL SPECIFICATIONS

Measurement method	Digital , triaxial measurement
Directional characteristic	Isotropic, triaxial
Measurement range selection	One continuous range
Display resolution	0.1mV/m , $0.1\mu\text{A/m}$, $0.1\mu\text{W/m}^2$, $0.001\mu\text{W/cm}^2$
Setting time	Typically 1s (0 to 90% of meas. value)
Display refresh rate	Typically 0.5Sec.
Display type	LCD 4 digit
Audible alarm	Buzzer
Measurement units	mV/m , V/m , $\mu\text{A/m}$, mA/m , $\mu\text{W/m}^2$, mW/m^2 , $\mu\text{W/cm}^2$
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	>15 hours
Dimensions	Approx. 67(W) x 60(T) x 247(L) mm
Weight	Approx. 260g (including battery)
Accessory	9V battery, carrying case, manual