

TES

Reliable in Quality

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

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| 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 ² to 30.93W/m ² , 0µW/cm ² to 3.093mW/cm ² |
| 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 ² (40V/m) |
| Temperature response (0 to 50°C) | ±0.5dB |

GENERAL SPECIFICATIONS

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|-------------------------------------|---|
| 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 ² , 0.001µW/cm ² |
| 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 ² , mW/m ² , µW/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 | >15hours |
| Dimensions | Approx. 67(W) x 60(T) x 247 (L)mm |
| Weight (including battery) | Approx. 260g |



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