

THREE-AXIS RF FIELD STRENGTH METER



This meter is designed for measuring and monitoring radio frequency electromagnetic field strength. The meter is calibrated precisely over the frequency range of 50MHz ~ 3.5GHz.

This meter is used to indicate electromagnetic pollution generated artificially, and wherever a voltage or a current, electric (E) and magnetic (H) fields arise. All types of radio broadcasting, mobile towers and TV transmitters produce electromagnetic fields, and they also arise in industry, business and the home, where they affect our health even if our sense organs perceive nothing.

Specification:

Measurement Ranges	38mv to 11v/m
Display	3-3/4 digits maximum reading 3999
Frequency Range	50MHz ~ 3.5GHz
Measurement Units	mV/m, V/m, μ A/m, mA/m, μ W/m ² , mW/m ² , μ W/cm ²
Display Resolution	0.1mV/m, 0.1 μ A/m, 0.001 μ W/m ² , 0.001 μ W/cm ²
Manual Data Memory	Read Storage: 200 Data Sets.
Alarm Function	Adjustable Threshold with ON/ OFF
Memory Recall	Records Maximum & AVG
Calibration Factor CAL	Adjustable
Sampling Time	2.5 times per second.
Operating Temperature and Humidity	0 to 50°C (32°F to 122°F). Max. 80% RH.
Power Supply	9V battery (NEDA 1604 IEC 6F 22 JIS 006P)*1
Battery Life	Approx. 50 hr.

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APPLICATIONS:

Quite often routine, maintenance and service work has to be done in areas where active electromagnetic fields are present, e.g. in broadcasting stations, etc. Additionally, other employees may be exposed to electromagnetic radiation. In such cases, it is essential that personnel be not exposed to dangerous levels of electromagnetic radiation, such as:

- High frequency (RF) electromagnetic wave field strength measurement.
- Mobile 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.

FEATURES:

- The meter is a broadband device for monitoring high frequency radiation in the range from 50MHz to 3.5GHz
- The non-directional electric field antenna and high sensitivity also allow measurements of electric field strength in TEM cells and absorber rooms.
- Configurable alarm threshold and memory function.
- High dynamic range due to three-channel digital results processing.
- Easy and safe to use.
- At high frequencies, the power density is of particular significance. It provides a measure of the power absorbed by a person exposed to the field. This power level must be kept as low as possible at high frequencies.
- Non-directional (isotropic) measurement with three-channel measurement sensor.

ACCESSORIES:

- 9V battery.
- Carrying case.

FREQUENCY RESPONSE:

- Sensor taking into account the typical CAL factor:
 - $\pm 2.4\text{dB}$ (50MHz to 1.9 GHz)
 - $\pm 1.0\text{dB}$ (1.9GHz to 3.5 GHz)
- Isotropy deviation. Typically $\pm 1.0\text{dB}$ (f 2.45GHz)
- Overload limit: 0.42 mW/cm^2 (11 V/m) per axis.
- Overload limit: (0 to 50°C): $\pm 0.2\text{dB}$.

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