



# Electromagnetic Field (EMF) Meter PCE-EM 29



## **PCE-EM 29 Electromagnetic Field (EMF) Meter Detects electromagnetic fields (EMFs) and radio frequencies (RFs)**

PCE-EM 29 is a portable handheld electromagnetic field meter or detector with a spherical triaxial (3-axis) three-dimensional (3D) isotropic sensor used to measure electromagnetic fields (EMFs) as well as radio frequencies (RFs). This easy-to-use battery-powered RF meter features a large 4-digit LCD screen and an adjustable value limit with acoustic alarm functionality.

PCE-EM 29 is ideal for monitoring electrical transformers and wireless systems such as wifi, wireless LAN, GSM and GPS. The EMF detector also aids in evaluating radiation produced by computer screens, televisions, microwaves and electrical installations.

- ▶ Frequency range: 50 MHz to 3.5 GHz
- ▶ Measures EMF of 5G cellular Low-band and Mid-band
- ▶ Measurement range: 38 mV/m to 11 V/m
- ▶ Accuracy:  $\pm 1.0$  dB (50 MHz to 1.9 GHz),  $\pm 2.4$  dB (1.9 GHz to 3.5 GHz)
- ▶ Displays units in mV/m, V/m,  $\mu\text{A}/\text{m}$ , mA/m,  $\mu\text{W}/\text{m}^2$  or  $\text{mW}/\text{m}^2$
- ▶ Calculates average value and stores up to 99 readings to memory

Subject to change

## Specifications

Frequency range	50MHz to 3.5GHz
Sensor type	Electrical field (E)
Measurements	3 dimensions, isotropic
Measurement range	38 mV/m to 11 V/m
Range selection	Automatic
Response time	1 s (up to 90% of value)
Units of measurement	mV/m , V/m , $\mu\text{gA/m}$ , mA/m , $\mu\text{gW/m}^2$ , mW/m <sup>2</sup>
Resolution	0.1mV/m; 0.1 $\mu\text{gA/m}$ ; 0.01 $\mu\text{gW/m}^2$
Absolute error (with 1V/m and 50MHz)	$\pm 1.0\text{dB}$
Accuracy (depending on the frequency)	$\pm 1.0\text{dB}$ (50MHz to 1.9GHz) $\pm 2.4\text{dB}$ (1.9GHz to 3.5GHz)
Isotropic deviation	$\pm 1.0\text{dB}$ (for frequencies >50 MHz)
Over range maximum value	4.2 W/m <sup>2</sup> (40 V/m)
Deviation owing to temperature	$\pm 1.5\text{dB}$
Display	4-digit LCD
Refresh rate	Every 400ms
Limit	Adjustable
Alarm	Acoustic signal to indicate over range limit exceeded
Calibration	Adjustable
Calculates average value	Adjustable from 4s to 15min
Memory	99 readings (can be shown on the display)
Functions	Current, maximum and average value
Power	9V battery
Weight	350g / 0.78 lb (with battery)

## More information

Manual



More product info



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