


## Wide Range RF Field Strength Meter



### Description:

This meter is designed for measuring and monitoring Radio-Frequency electromagnetic field strength. The E201 is compact, durable and easy to use.

### Features:

- The meter is a broadband device for monitoring high frequency radiation in the range from 10MHz to 8GHz
- Isotropic (non-directional) measurements of electromagnetic fields with three-channel measurement sensor
- Reports electrical and magnetic field strength and also power density
- Display the instantaneous, maximum or average values
- High dynamic range due to three-channel digital results processing
- Adjustable alarm threshold and memory function
- Easy & safe to use
- Low battery indicator “”
- Store and recall up to 200 data sets
- Memory over-load indicator

### Applications:

- Measurements of electric field strength in TEM cells and absorber rooms
- 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 phone radiation safety level
- Microwave oven leakage detection
- Personal living environment EMF safety



WARRANTY



### Technical Specifications

<b>Display Type</b>	Liquid-crystal (LCD), 4-1/2 digits, maximum reading 19999
<b>Measurement Method</b>	Digital, triaxial measurement
<b>Directional Type</b>	Isotropic (triaxial)
<b>Range Selection</b>	One continuous range
<b>Resolution</b>	0.1mV/m, 0.01V/m, 0.1µA/m, 0.1mA/m, 0.001µW/m <sup>2</sup> , 0.01mW/m <sup>2</sup> , 0.001µW/cm <sup>2</sup>
<b>Setting Time</b>	Typically 1.5s (0 to 90% measurement value)
<b>Sample Rate</b>	1.5 times per second
<b>Units</b>	mV/m, V/m, µA/m, mA/m, µW/m <sup>2</sup> , mW/m <sup>2</sup> , µW/cm <sup>2</sup>
<b>Display Value</b>	Instantaneous measured value, maximum value, average value, or maximum average value
<b>Audible Alarm</b>	Buzzer
<b>Alarm Function</b>	Adjustable threshold with ON / OFF
<b>Calibration Factor</b>	Adjustable
<b>Data Storage/Recall</b>	200 Data Sets
<b>Batteries</b>	9V
<b>Battery Life</b>	Approximately 3 hours
<b>Auto Power-Off</b>	Default time 15 minutes. Adjustable threshold 0~99 minutes
<b>Dimensions</b>	370(L) x 80(W) x 80(H) mm
<b>Weight</b>	Approx. 400g (including battery)

### Includes:

- E201 Meter
- User Manual
- 9V Battery
- Carrying Case

### This instrument conforms to:

- **EN61326:** Electrical equipment for measurement, control and laboratory use.
- **IEC61000-4-2:** Electrostatic discharge immunity test.
- **IEC61000-4-3:** Radiated, radio-frequency, electromagnetic field immunity test.



### Electrical Specifications

<b>Sensor Type</b>	Electrical Field (E)
<b>Frequency Range</b>	10MHz ~ 8 GHz
<b>Specified Measurement Range</b>	<ul style="list-style-type: none"> <li>▪ CW signal (f &gt;50MHz):             <ul style="list-style-type: none"> <li>○ 38 mV/m to 11.00 V/m</li> <li>○ 53.0 <math>\mu</math>A/m to 28.64 mA/m</li> <li>○ 0.1 <math>\mu</math>A/m<sup>2</sup> to 309.3 mW/m<sup>2</sup></li> <li>○ 0<math>\mu</math> W/cm<sup>2</sup> to 30.93 mW/cm<sup>2</sup></li> </ul> </li> </ul>
<b>Dynamic range</b>	Typically 75dB
<b>Absolute error at 1V/m and 2.45GHz</b>	$\pm$ 1.0 dB
<b>Frequency Response</b>	<ul style="list-style-type: none"> <li>▪ Sensor taking into account the typical CAL factor:             <ul style="list-style-type: none"> <li>○ <math>\pm</math>2.4dB(50 MHz to 1.9 GHz, 3.5 GHz to 8GHz)</li> <li>○ <math>\pm</math>1.0dB (1.9 GHz to 3.5GHz)</li> </ul> </li> </ul>
<b>Isotropy deviation</b>	Typically $\pm$ 1.0dB (2.45GHz)
<b>Overload limit</b>	0.083mW/cm <sup>2</sup> , (17.7 V/m) per axis
<b>Overload limit</b>	(0 to 50°C): $\pm$ 0.2dB

Unless otherwise stated, the following specifications hold for these conditions:

- The meter is located in the far field of a source
- Sensor head is pointed towards the source
- Ambient Temperature: +23 °C,  $\pm$ 3°C
- Relative Humidity: 25%~75%



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