



9720

### Electrical Specifications

Sensor Type	Electric Field (E)
Frequency Range	50MHz to 3.5GHz
Directional Characteristic	Isotropic, triaxial
Measurement Range CW signal (F > 50MHz)	20mV/m to 108.0V/m, 53µA/m to 286.4mA/m, 1µW/m <sup>2</sup> to 30.93W/m <sup>2</sup> , 0µW/cm <sup>2</sup> to 3.093mW/cm <sup>2</sup>
Absolute Error (at 1V/m and 50MHz)	± 1.0dB
Frequency Response (Taking into Account Typical CAL Factor)	± 1.0dB (50MHz to 1.9GHz), ± 2.4dB (1.9GHz to 3.5GHz)
Isotropy Deviation	Typically ±1.0dB for f > 50MHz
Overload Limit	10.61mW / cm <sup>2</sup> (200V/m)
Temperature Response (0 to 50°C)	± 0.2dB

### Note

Unless otherwise stated, all specifications are Valid under the following assumptions :

- Sinusoidal Signals ● Device in far field of a source
- Sensor head pointing towards source
- Ambient temperature + 23°C ± 3°C (RH < 75%)

### Features

- Frequency Range 50MHz to 3.5GHz
- For Isotropic Measurement of Electro Magnetic Fields
- Non-Directional (Isotropic) Measurement with Three-Channel Measurement Sensor
- High Dynamic Range due to Three Channel Digital Results Processing
- Configurable Alarm Threshold and Memory Function
- Easy and Safety to Use

### Applications

- 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

### General Specifications

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 <sup>2</sup> 0.001µW/cm <sup>2</sup>
Setting Time	Typically 1s (0 to 90% of Measurement 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 <sup>2</sup> , mW/m <sup>2</sup> , W/m <sup>2</sup> , µW/cm <sup>2</sup> , mW/cm <sup>2</sup>
Measurement Display Value	Instantaneous Measured Value, Maximum Value or Maximum Average Value
Measurement Average Time (in per Set Steps)	4s to 15minutes
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 x 1
Battery Life	> 15Hours
Dimension	60 x 60 x 237mm (approx.)
Weight	200gms Including Battery (approx.)
Accessories	Battery (installed), Carrying Case x 1 & Instruction Manual x 1