

RF and LF measurement

RF Strength, LF Magnetic Fields/Electric Fields Meter

Multi-Field EMF Meter

Model : EMF-840

ISO-9001, CE, IEC1010



LUTRON ELECTRONIC

The Art of Measurement

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FEATURES

* RF application :
For electromagnetic field strength measurement including mobile phone base station antenna radiation, RF power measurement for transmitters, wireless LAN (Wi-Fi) detection/ installation, wireless communication applications (CW, TDMA, GSM, DECT) and microwave leakage.
* RF power measurement Range/Resolution :
Frequency range : 50 MHz to 3.5 GHz. 30.00 mV/m to 11.00 V/m, 0.001,0.01, 0.1, 1 mV/m. 0.02 uW/cm2 to 32.09 uW/cm2, 0.01 uW/cm2. 0.02 μW/m2 ~ 320.9 mW/m2, 0.001,0.01 , 0.1 μW/m2,mW/m2 0.02 mA/m to 29.17 mA/m, 0.001,0.01 mA/m.
* LF application :
The EMF tester (LF) is designed to provide user a quick reliable and easy way to measure electromagnetic field radiation levels around power line , home appliances and industrial devices.
* Magnetic Fields Measurement range/Resolution:
Frequency range : 50 Hz to 60 Hz. mG : 200.0 to 2000, 0.1 mG, 1 mG. uT: 20.00 to 200.0, 0.01 uT, 0.1 uT.
* Electric Fields Measurement range/Resolution :
Frequency range : 50 Hz to 60 Hz. 50 V/m to 2000 V/m, 1 V/m.
* 2.4" TFT LCD display to easy reading. Light weight and small size case design are suitable for handling with one hand.
* Wristlet design provides extra protection to the instrument especially for user one hand operation.
* Built-in microprocessor circuit assures excellent performance and accuracy.
* Concise and compact buttons arrangement, easy operation.
* Memorize the maximum and minimum value with recall.
* Hold function to freeze the current reading value
* Power Supply DC 1.5V, UM4-AAA battery x 3 PCs.

General Specifications

Display	LCD view size : 2.4" TFT LCD.
Measurement	EMF (Electromagnetic field tester.)
Band width	RF:50~3.5 MHz, LF: 50/60 Hz
Number Axes	Single Axis.
Operating Humidity	Max. 80% RH.
Operating Temperature	0 to 50 °C (32 to 122 °F)
Over Input Display	Indication of "- - - -"
Power Supply	DC 1.5V ,UM4-AAA battery X 3 PCs (DC 4.5 V battery)
Power Consumption	Approx. DC 26 mA ~ 49 mA (0-3rd-order LCD Backlight brightness)
Weight	160g (battery included)
Dimension	HWD 107 x 45 x 20 mm (4.2 x 1.8 x 1.2 inch).
Standard Accessory	Instruction Manual..... 1 pc
Optional Accessories	Soft carrying case, CA-05A.

Electrical Specification (23 ±5 °C)

RF EMF tester METER

Unit	Range	Resolution	Absolute error
mV/m,V/m	30.00mV/m ~ 11.00 mV/m	0.001,0.01 , 0.1	1.0dB
μW/cm2	0.02 ~ 32.09 μW/cm2	0.01 , 0.1	@ at 1 V/m & 900 MHz
μW/m2,mW/m2	0.02μW/m2 ~ 320.9 mW/m2	0.001,0.01 , 0.1	
mA/m	0.02 ~ 29.17 mA/m	0.01 , 0.1	

LF - Magnetic Fields tester METER

Unit	Range	Resolution	Accuracy
μT (micro Tesla)	20.00 ~ 200.0 μT	0.01 μt , 0.1 μT	± 12 % rdg + 5 dgt @ at 50 Hz or 60 Hz
mG (milli Gauss)	200.0 ~ 2000 mG	0.1 mG , 1 mG	

LF- Electric Field tester METER

Unit	Range	Resolution	Accuracy
V/m	50 V/m ~ 2000 V/m	1 V/m	± 7% rdg + 20 dgt @ at 50 Hz or 60 Hz

* Spec. tested under the environment RF Field Strength less than 3 V/M & frequency less than the 30 MHz only.