

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.
30.0 mV/m to 11.00 V/m 0.1 mV/m 0.001,0.01, V/m.
0.02 $\mu\text{W}/\text{cm}^2$ to 32.09 $\mu\text{W}/\text{cm}^2$ 0.01 $\mu\text{W}/\text{cm}^2$.
2.38 $\mu\text{W}/\text{m}^2$ ~ 320.9 mW/m ² 0.01, 0.1 $\mu\text{W}/\text{m}^2$ 0.001,0.01,0.1 mW/m ²
0.07 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.
μT : 20.00 to 200.0, 0.01 μT , 0.1 μT .
* 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	Electromagnetic field tester (3 - Axis.) : 50/60 Hz
	Electric Field : 50/60 Hz
	RF Strength Field : 50~3.5 MHz,
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	Instruction Manual..... 1 pc
Accessory	
Optional Accessories	Soft carrying case, CA-04.

Electrical Specification (23 ± 5 °C)

RF EMF tester METER

Unit	Range	Resolution	Absolute error
mV/m,V/m	30.0mV/m ~ 11.00 mV/m	0.01,0.1mV/m / 0.01V/m	1.0dB
$\mu\text{W}/\text{cm}^2$	0.02 ~ 32.09 $\mu\text{W}/\text{cm}^2$	0.01 , 0.1 $\mu\text{W}/\text{cm}^2$	@ at 1 V/m &
$\mu\text{W}/\text{m}^2$,mW/m ²	2.38 $\mu\text{W}/\text{m}^2$ ~ 320.9 mW/m ²	0.1,1 $\mu\text{W}/\text{m}^2$ / 0.1mW/m ²	900 MHz
mA/m	0.07 ~ 29.17 mA/m	0.01 , 0.1mA/m	

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
mG (milli Gauss)	200.0 ~ 2000 mG	0.1 mG , 1 mG	@ at 50 Hz or 60 Hz

LF- Electric Field tester METER

Unit	Range	Resolution	Accuracy
V/m	50 V/m ~ 2000 V/m	1 V/m	± 10 % rdg + 60 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.