

**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    0.01, 0.1 mV/m /0.01 V/m. 0.02 uW/cm2 to 32.0 uW/cm2    0.01, 0.1 uW/cm2. 2.3 μW/m2 to 320.9 mW/m2    0.1, 1 μW/m2 / 0.1 mW/m2 0.07 mA/m to 29.1 mA/m    0.01, 0.1 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	Electromagnetic field tester ( 3 - Axis. ) : 50/60 Hz Electric Field : 50/60 Hz RF Strength Field : 50MHz~3.5 GHz.
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 24 mA ~ 38 mA (0-3rd-order LCD Backlight brightness)
Weight	106g/0.2LBS (without battery)
Dimension	HWD 107 x 60 x 25 mm (4.2 x 2.4 x 1.0 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	30.0 mV/m to 11.00 V/m	0.01, 0.1 mV/m /0.01 V/m.	1.0dB @ at 1 V/m & 900 MHz
μW/cm2	0.02uW/cm2 to 32.0 uW/cm2	0.01, 0.1 uW/cm2.	
μW/m2,mW/m2	2.3 μW/m2 to 320.9 mW/m2	0.1, 1 μW/m2 / 0.1 mW/m2	
mA/m	0.07 mA/m to 29.1 mA/m	0.01, 0.1 mA/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 @ 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	± 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.

\* Appearance and specifications listed in this brochure are subject to change without notice.