

3 AXIS RADIO FREQUENCY

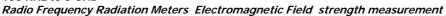
ELECTROMAGNETIC FIELD METER

Model: EMF-839 *ISO-9001, CE, IEC1010*









3 AXIS RF ELECTROMAGNETIC FIELD METER



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Model: EMF-839

FEATURES

*	3 Axis probe.
	Wide measuring frequency ranges, 100 KHz to 3 GHz.
*	Radio frequency electromagnetic field tester.
*	EMF-839 is used for broadband devices of monitoring
	the wide range radio frequency electromagnetic field
	value.
*	For precision measurement consideration, the meter
	are included two probes :
	EP-04L (Low frequency Probe, 100 KHz to 100 MHz)
	EP-03H (High frequency Probe, 100 MHz to 3 GHz)
*	Unit: V/m, W/m^2, mW/cm^2.
*	Alarm setting function can warn the user if the
	measuring antenna is too near the strong radiation
	sources, the buzzer will sound to remind the user.
*	Peak hold function to latch peak value.
*	Data hold function to lock the current reading.
*	RS232 computer interface.
*	Real time data logger, build in clock (hour-MIN-sec.,
	year-month-date).
*	Auto or manual data record, 16,000 Data logger no.
*	Wide sampling time adjustment range from one second
	to 8 hours 59 minutes 59 seconds.
	Compact metallic carry case.
*	Large size LCD with contrast adjustment, which can fit
	best viewing angle.
*	Microcomputer circuit provides special function & offers
*	high accuracy.
*	

APPLICATIONS

This meter is specially developed for measuring or monitoring electromagnetic field, for example: cell-phone station, hospital equipment, radar, micro-wave oven, radiation work, TV antenna, Radio station, welding equipment, baking- equipment, television, computer, factory, laboratory, and other environment...etc.

SAFETY INSTRUCTIONS

Danger

- * For worker's safety, be aware that persons with electromagnetic implant (e.g. cardiac-pacemarker) are subject to especial danger in some case.
- * Particular to observe the local safety regulations of the operator of the equipment.
- Before using the device, it need to know that how to setting " alarm-limit " value.

Attention

- * Claims by some scientists that long term exposure to electromagnetic field may be the cause of childhood leukemia & other forms of cancer.
- * Complete answers to any of these and related questions are not currently available. At the present time the most common practice is to avoid excess exposure over long period of time.
- * Complete answers to any of these and related
 " Prudent Avoidance " as stated by the Environmental
 Protection Agency(EPA) USA is recommended.
- * According to ICNIRP of reference levels to time-varying electromagnetic fields,The E-field strength levels are:

General public

Certeral public						
Frequency range	e-field strength (V/m)					
3 to 150 kHz	87					
0.15 to 1 MHz	87					
1 to 10 MHz	87/f^1/2					
10 to 400 MHz	28					
400 to 2000 MHz	1.375 x f^1/2					
2 to 300 GHz	61					

Occupational

Frequency range	e-field strength (V/m)			
65 to 1000 kHz	610			
1 to 10 MHz	610/f			
10 to 400 MHz	61			
400 to 2000 MHz	3 x f^1/2			
2 to 300 GHz	137			

GENERAL SPECIFICATIONS

GENERAL SPECI				
Circuit	Custom one-chip of microprocessor LSI circuit.			
Display	LCD size: 58 mm x 34 mm.			
Measurement	V/m, mW/cm^2, W/m^2.			
Unit				
Accuracy	< 2 dB.			
Probe structure	3 Axis.			
Probe Type	EP-03H: 100 MHz to 3 GHz.			
Selection	EP-04L: 100 kHz to 100 MHz.			
Probe Input	50 OHM			
Impedance				
Frequency	EP-03H: 900 MHz, 1 GHz, 1.8 GHz,			
Selection	2.4 GHz, 2.45 GHz, 3 GHz.			
Points	EP-04L: 100kHz, 200kHz, 500kHz, 1MHz, 10MHz, 13.56MHz, 100MHz.			
Sensor	Semiconductor			
Structure				
Sampling Time	Manual Press the data logger button			
of Data Logger	once will save data one time.			
	* Set the sampling time to			
	0 second			
Data Hald	Auto 1 sec to 8 hour 59 min. 59 sec.			
Data Hold REC Function	Freeze the display reading.			
Power off	Record Maximum & Minimum value. Auto shut off saves battery life or			
rower on	manual off by push button.			
	* Can default auto power off or manual			
	power off.			
	* When default auto power off ,			
	power will off automatically after			
	10 min. if no button be pressed.			
Peak Hold	To latch the peak measurement value.			
Alarm Setting	Buzzer will sound when display over the			
	setting value.			
Sampling Time	Approx. 1 second.			
Low Battery	When display show Low battery			
Indicator	Indicator, it should change the batteries.			
Data Output	RS 232 PC serial interface.			
Operating	0 to 50 ℃.			
Temperature	Leading On OV DIA			
Operating Humidity	Less than 80 %RH.			
Power Supply	DC 9 V battery (006P)			
	* Heavy duty or Alkaline type.			
	DC 9V adapter input.			
Power Current	Approx. DC 5.95 mA			
Weight Dimension	523 g/ 1.16 LB. Main instrument :			
Dimension				
	200.0 x 76.2 x 36.8 mm <i>Probe :</i>			
	70 mm (diameter) x 290 mm (length)			
Accessories	Instruction manual1 PC			
Included	EP-03H Probe			
	EP-04L Probe 1 PC			
	Memory card for EP-03H 1 PC			
	Memory card for EP-04L 1 PC			
	DC 9V power adapter 1 PC			
	Metal carrying case1 PC			
Optional	RS232 cable, UPCB-02.			
Accessories	USB cable, USB-01.			
	Data Acquisition software, SW-U801-WIN.			
1	Data Logger software, SW-DL2005.			

ELECTRICAL SPECIFICATIONS (23 ± 5 °C)

Strength Range	Resolution	Effective	Value
0~200.00 V/m	0.01 V/m	> 1 V/m	
0~99.999 W/m^2	0.001 W/m^2	> 0.03 W	/m^2
0~9.9999 mW/cm^2	0.0001 mW/cm^2	> 0.0003	mW/cm^2
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Frequency range	Accuracy	Cal. level	Probe no.
*100 KHz to 100 MHz	< 2 dB	30 V/m	EP-04L
*50 MHz to 3 GHz	< 2 dB	60 V/m	EP-03H

Remark.

- * EP-04L probe's accuracy is specified within 400 KHz to 100 MHz only. If measurement frequency range is < 400 KHz, the reading value just for reference only.</p>
- * EP-03H probe's accuracy is specified within 100 MHz to 2.5 GHz only. If measurement frequency range $\,$ is < 100 MHz or > 2.5 GHz , the reading value just for reference only.
- * For precision measurement consideration, it should select the "Frequency Team point" near the frequency value of measuring object.

^{*} Appearance and specifications listed in this brochure are subject to change without notice.

NCC (National Communication Commission is the official organization on behalf Taiwan government)

NCC RECOMMEND EMF-839, EMF-819 for Mobile station measurement



NCC Website: http://www.ncc.gov.tw

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