100 KHz to 3 GHz, 2 probes

3 AXIS RADIO FREQUENCY ELECTROMAGNETIC FIELD METER

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





The Art of Measurement

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FGJ-NDT.IR

DIGINDT.IR

- © +982165565901
- (c) +982144584619
- +989034119385

🛭 Tehran, Tehransar

Radio Frequency Radiation Meters Electromagnetic Field strength measurement

3 AXIS RF ELECTROMAGNETIC FIELD METER

Model: EMF-839



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*	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.
K	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)
k	Unit: V/m, W/m^2, mW/cm^2.
K	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.
K	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

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.

high accuracy.

* Powered by 006P DC 9V battery or DC 9V adapter.

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
- 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

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

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	

Appearance and specifications listed in this brochure are subject to change without no

GENERAL	SPECIFICATIONS
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Circuit	Custom one-chip of microprocessor LSI			
	circuit.			
Display	LCD size : 58 mm x 34 mm.			
Measurement Unit	V/m, mW/cm^2, W/m^2.			
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 Impedance	50 OHM			
Frequency	EP-03H: 900 MHz, 1 GHz, 1.8 GHz,			
Selection	2.4 GHz, 2.45 GHz, 3 GHz.			
Points	2.4 GHz, 2.45 GHz, 3 GHz. 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			
	Auto 1 sec to 8 hour 59 min. 59 sec.			
Data Hold	Freeze the display reading.			
REC Function	Record Maximum & Minimum value.			
Power off	Auto shut off saves battery life or			
	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	0 60 50 C.			
Operating Humidity	Less than 80 %RH.			
Power Supply	DC 9 V battery (006P)			
ower suppry	* Heavy duty or Alkaline type.			
	DC 9V adapter input.			
Power Current	Approx. DC 5.95 mA			
Weight	523 g/ 1.16 LB.			
Dimension	Main instrument :			
Differsion	200.0 x 76.2 x 36.8 mm			
	Probe :			
Accessories	70 mm (diameter) x 290 mm (length) Instruction manual			
Accessories Included	EP-03H Probe			
included	EP-04L Probe			
	Moment and for ED 03H			
	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.			
	Data Logger software, SW-DL2005.			

ELECTRICAL SPECIFICATIONS (23 \pm 5 $^{\circ}$ C)

			re 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	> 0.000	> 0.0003 mW/cm^2	

30 V/m 60 V/m

- Remark:

 * EP-04L probe's accuracy is specified within 400 KHz to 100 MHz
- 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.

 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.
- measuring object.

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

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

Q Tehran, Tehransar

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