50 MHz to 3 GHz, general purpose



3 AXIS RADIO FREQUENCY

ELECTROMAGNETIC FIELD METER

Model: EMF-819 *ISO-9001, CE, IEC1010*







The Art of Measurement

FAMCU هایپرمنعت

3 AXIS RF ELECTROMAGNETIC FIELD METER

Model: EMF-819

FEATURES

*	3 Axis probe.			
	Radio frequency electromagnetic field tester.			
*	Wide measuring frequency ranges, 50 MHz to 3 GHz.			
*	* EMF-819 is used for broadband devices of monitoring			
	the wide range radio frequency electromagnetic field			
	value.			
*	For precision measurement consideration, the meter			
	is included one probe :			
	EP-05H (High frequency Probe, 50 MHz to 3 GHz)			
*	* Unit : V/m, W/m^2, mW/cm^2.			
*	* Frequency team selection: two points, Normal, 2.45 GHz.			
*	* 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.			
*	Hard carrying case is included.			
*	Large size LCD with contrast adjustment, which can fit			
L	best viewing angle.			
*	* Microcomputer circuit provides special function & offers			
1	high coouroov			

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.

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 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)	
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)
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 notice

GENERAL SPECIFICATIONS

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 Input	50 OHM		
Impedance			
Sensor Structure	Semiconductor		
Frequency Team	Two points selection: Normal, 2.45 GHz.		
Selection			
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			
Operating	Less than 80 %RH.		
Humidity			
Power Supply	DC 9 V battery (006P)		
rower Suppry	* Heavy duty or Alkaline type.		
	DC 9V adapter input.		
Power Current	Approx. DC 5.95 mA		
Weight	425 g/ 0.94 LB.		
Dimension	Main instrument :		
Difficusion	200.0 x 76.2 x 36.8 mm		
	Probe :		
Accessories	70 mm (diameter) x 240 mm (length) Instruction manual 1 PC		
Included	EP-05H Probe1 PC		
included	Memory card for EP-05H1 PC		
	Hard carrying case1 PC		
Optional	DC 9V power adapter1 PC RS232 cable, UPCB-02.		
Accessories	USB cable, USB-01.		
ACCESSUITES	Data Acquisition software,SW-U801-WIN.		
	Data AUQUISITIOTI SULLWALE, SVV-U801-VVIIV.		

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

Strength Range	Resolution	Effective Value
0 to 200.00 V/m	0.01 V/m	> 1 V/m
0 to 99.999 W/m^2	0.001 W/m^2	> 0.03 W/m^2
0 to 9.9999 mW/cm^2	0.0001 mW/cm^2	> 0.0003 mW/cm^2
Frequency Range	Accuracy	Test Point
* 50 MHz to 3 GHz	< 2 dB *	60 V/m

Remark:

- * The above accuracy is specified base on the measurement frequency within 100 MHz to 2.5 GHz. If measurement is on other frequency range (below 100 MHz and over 2.5 GHz), the reading value just for reference only.
- * The default selection is "Normal", however if the measurement frequency is microwave or its frequency is near " 2.45 GHz", it should select to " 2.45 GHz " will get the high precision.



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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