3 AXIS RADIO FREQUENCY ELECTROMAGNETIC FIELD METER

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







The Art of Measurement

3 AXIS RF ELECTROMAGNETIC FIELD METER

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FEATURES

*	* 3 Axis probe.			
*	Radio frequency electromagnetic field tester.			
*	Wide measuring frequency ranges, 100 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, 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.			
*	Hard carrying case is included.			
*	* Large size LCD with contrast adjustment, which can fit			
	best viewing angle.			
*	Microcomputer circuit provides special function & offers			
L	high accuracy.			
*	Powered by 006P DC 9V battery or DC 9V adapter.			

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

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	

GENERAL SPECIFICATIONS

Circuit	Custom and ship of missonspaces I CI		
Circuit	Custom one-chip of microprocessor LSI		
Display	circuit. LCD size : 58 mm x 34 mm.		
Display Measurement	V/m, mW/cm^2, W/m^2.		
Unit	v/m, mw/cm^2, w/m^2.		
Accuracy	< 2 dB.		
Probe structure	3 Axis.		
Probe Input	50 OHM		
Impedance	30 Of the		
Sensor	Semiconductor		
Structure	Commonador		
Data Hold	Freeze the display reading.		
REC Function	Record Maximum & Minimum value.		
Power off	Auto shut off saves battery life or		
I OWCI OII	manual off by push button.		
	* Can default auto power off or manual		
	power off.		
	* When default auto power off ,		
	power will off automatically after		
Da ali Halal	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)		
	* 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 :		
Dimonsion	200.0 x 76.2 x 36.8 mm		
	Probe:		
	70 mm (diameter) x 240 mm (length)		
Accessories	Instruction manual		
Included	EP-05H Probe1 PC		
Included	Memory card for EP-05H1 PC		
	Hard carrying case1 PC		
	DC 9V power adapter1 PC		
Optional	RS232 cable, UPCB-02.		
Accessories	USB cable, USB-01.		
	Data Acquisition software,SW-U801-WIN.		

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 2.5 GHz	< 2 dB	60 V/m

Remark

- * Measurement under other frequency range (below 100 MHz and over 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