

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

3 AXIS RF ELECTROMAGNETIC FIELD METER Model : EMF-819

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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		
best viewing angle.		
* Microcomputer circuit provides special function & offers		
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

<u>Danger</u>

- * 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	

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*	Appearance and s	pecifications listed	in this brochure	e are subject to	o change without notice	4

GENERAL SPECIFICATIONS

in of micromenon on ICI
ip of microprocessor LSI
nm x 34 mm.
2, W/m^2.
ection : Normal, 2.45 GHz.
lay reading.
im & Minimum value.
aves battery life or
bush button.
auto power off or manual
lt auto power off ,
ff automatically after
button be pressed.
ak measurement value.
nd when display over the
nd.
how Low battery
ould change the batteries.
al interface.
SRH.
(22(D)
(006P)
or Alkaline type.
input.
5 mA
3.
nt :
x 36.8 mm
meter) x 240 mm (length)
nual 1 PC
1 PC
or EP-05H1 PC
or EP-05H1 PC
ase1 PC
ase1 PC dapter1 PC
ase1 PC

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

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
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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.