

*High sensitivity*

# RF FIELD STRENGTH POWER METER

Model : EMF-830

*ISO-9001, CE, IEC1010*



Soft carrying case  
CA-05A



**Lutron**

**LUTRON ELECTRONIC**

*The Art of Measurement*

# 3 Axis RF FIELD STRENGTH POWER METER

Model : EMF-830

## FEATURES

* Radio field strength power measurement : GSM, CDMA, TDMA, WiFi, WiMAX Bluetooth, security system, cordless phones, Zigbee....
* Frequency range : Wide band, 10 MHz to 8 GHz.
* Measuring unit : $\mu\text{W}/\text{m}^2$ , $\text{mW}/\text{m}^2$ , $\text{W}/\text{m}^2$ , $\text{mV}/\text{m}$ , $\text{V}/\text{m}$ , $\mu\text{A}/\text{m}$ , $\text{mA}/\text{m}$ , $\mu\text{W}/\text{m}^2$ , $\text{mW}/\text{m}^2$ , $\text{W}/\text{m}^2$ $\mu\text{W}/\text{cm}^2$ $\text{mW}/\text{cm}^2$ .
* 3 axis RF sensor.
* Backlight graphics dot matrix LCD with 4 function screens, digital and bar-graph display with warning symbol.
* Beeper will sound for warning if measuring data are over the alert value.
* Can default auto power off or manual power off.
* Data hold, record max. and min. reading.
* Microcomputer circuit, high accuracy.
* Power by UM3/AA ( 1.5 V ) x 6 batteries or DC 9V adapter.
* RS232/USB PC COMPUTER interface.

## GENERAL SPECIFICATIONS

Circuit	Custom one-chip of microprocessor LSI circuit.	
Display	LCD size : 52 mm x 38 mm, LCD with backlight ( on/off ).	
Measurement Unit	$\text{mV}/\text{m}$	
	$\text{V}/\text{m}$	
	$\mu\text{A}/\text{m}$	
	$\text{mA}/\text{m}$	
	$\mu\text{W}/\text{m}^2$	
	$\text{mW}/\text{m}^2$	
	$\text{W}/\text{m}^2$	
	$\mu\text{W}/\text{cm}^2$	
	$\text{mW}/\text{cm}^2$	
Frequency range	10 MHz to 8 GHz.	
Sensor axis no.	3 axis RF sensor.	
Data Hold	Freeze the display reading.	
Unit/Range	<i>Unit</i>	<i>Range</i>
	$\text{mV}/\text{m}$ , $\text{V}/\text{m}$	20 $\text{mV}/\text{m}$ to 108.0 $\text{V}/\text{m}$
	$\mu\text{A}/\text{m}$ , $\text{mA}/\text{m}$	53 $\mu\text{A}/\text{m}$ to 286.4 $\text{mA}/\text{m}$
	$\mu\text{W}/\text{m}^2$ , $\text{mW}/\text{m}^2$ , $\text{W}/\text{m}^2$	1 $\mu\text{W}/\text{m}^2$ to 30.93 $\text{W}/\text{m}^2$
	$\mu\text{W}/\text{cm}^2$ , $\text{mW}/\text{cm}^2$	0 $\mu\text{W}/\text{cm}^2$ to 3.093 $\text{mW}/\text{cm}^2$

Unit/Resolution	<i>Unit</i>	<i>Resolution</i>
	$\text{mV}/\text{m}$ , $\text{V}/\text{m}$	0.1 $\text{mV}/\text{m}$ to 0.1 $\text{V}/\text{m}$
	$\mu\text{A}/\text{m}$ , $\text{mA}/\text{m}$	0.1 $\mu\text{A}/\text{m}$ to 0.1 $\text{mA}/\text{m}$
	$\mu\text{W}/\text{m}^2$ , $\text{mW}/\text{m}^2$ , $\text{W}/\text{m}^2$	0.1 $\mu\text{W}/\text{m}^2$ to 0.01 $\text{W}/\text{m}^2$
	$\mu\text{W}/\text{cm}^2$ , $\text{mW}/\text{cm}^2$	0.001 $\mu\text{W}/\text{cm}^2$ to 0.001 $\text{W}/\text{cm}^2$
Advanced setting	<ul style="list-style-type: none"> <li>* Auto power OFF management</li> <li>* Set beep Sound ON/OFF</li> <li>* Warning value setting.</li> <li>* Set Cal.</li> </ul>	
Memory Recall	Maximum & Minimum value.	
Sampling Time of Display	Approx. 1 second.	
Data Output	RS 232/USB PC computer interface.  * Connect the optional RS232 cable <i>UPCB-02 will get the RS232 plug.</i>  * Connect the optional USB cable <i>USB-01 will get the USB plug.</i>	
Operating Temperature	0 to 50 °C .	
Operating Humidity	Less than 85% R.H.	
Power Supply	<ul style="list-style-type: none"> <li>* Alkaline or heavy duty DC 1.5 V battery ( UM3, AA ) x 6 PCs, or equivalent.</li> <li>* DC 9V adapter input. ( AC/DC power adapter is optional ).</li> </ul>	
Power Current	Normal operation ( and LCD Backlight is OFF ) : <i>Approx. DC 3.5 mA.</i>  * .If LCD backlight on, the power consumption will increase approx. 12 mA.	
Weight	265 g/0.58 LB.	
Dimension	230 x 70 x 45 mm (9.1 x 2.8 x 1.8. inch)	
Accessories Included	* Instruction manual..... 1 PC	
Optional Accessories	AC to DC 9V adapter.  USB power to DC 9V converter, USBP-59  USB cable, USB-01.  RS232 cable, UPCB-02.  Data acquisition software, SW-U801-WIN.  Excel data acquisition software, SW-E802.  Soft carrying case, CA-05A.	

\* Appearance and specifications listed in this brochure are subject to change without notice.