

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 : $\mu\text{W}/\text{m}^2$, mW/m^2 , W/m^2 , mV/m , V/m , $\mu\text{A}/\text{m}$, mA/m , $\mu\text{W}/\text{m}^2$, mW/m^2 , W/m^2 $\mu\text{W}/\text{cm}^2$ mW/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	mV/m	
	V/m	
	$\mu\text{A}/\text{m}$	
	mA/m	
	$\mu\text{W}/\text{m}^2$	
	mW/m^2	
	W/m^2	
	$\mu\text{W}/\text{cm}^2$	
	mW/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>
	mV/m , V/m	20 mV/m to 108.0 V/m
	$\mu\text{A}/\text{m}$, mA/m	53 $\mu\text{A}/\text{m}$ to 286.4 mA/m
	$\mu\text{W}/\text{m}^2$, mW/m^2 , W/m^2	1 $\mu\text{W}/\text{m}^2$ to 30.93 W/m^2
	$\mu\text{W}/\text{cm}^2$, mW/cm^2	0 $\mu\text{W}/\text{cm}^2$ to 3.093 mW/cm^2

Unit/Resolution	<i>Unit</i>	<i>Resolution</i>
	mV/m , V/m	0.1 mV/m to 0.1 V/m
	$\mu\text{A}/\text{m}$, mA/m	0.1 $\mu\text{A}/\text{m}$ to 0.1 mA/m
	$\mu\text{W}/\text{m}^2$, mW/m^2 , W/m^2	0.1 $\mu\text{W}/\text{m}^2$ to 0.01 W/m^2
	$\mu\text{W}/\text{cm}^2$, mW/cm^2	0.001 $\mu\text{W}/\text{cm}^2$ to 0.001 W/cm^2
Advanced setting	<ul style="list-style-type: none"> * Auto power OFF management * Set beep Sound ON/OFF * Warning value setting. * Set Cal. 	
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"> * Alkaline or heavy duty DC 1.5 V battery (UM3, AA) x 6 PCs, or equivalent. * DC 9V adapter input. (AC/DC power adapter is optional). 	
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.