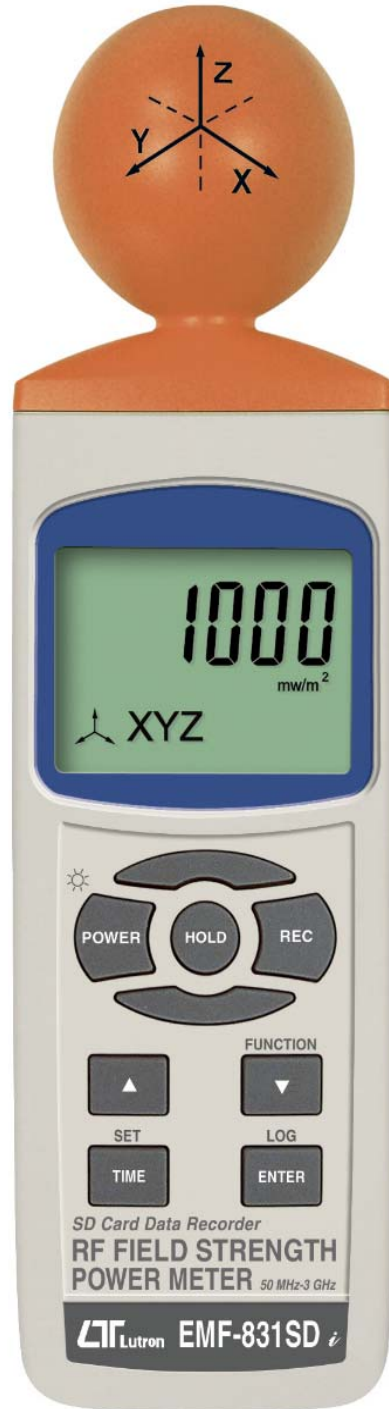


SD card real time recorder
High sensitivity

RF FIELD STRENGTH POWER METER

Model : EMF-831SD

ISO-9001, CE, IEC1010



Carrying case
CA-05A



Lutron

LUTRON ELECTRONIC

The Art of Measurement

SD card real time data recorder

3 Axis

RF FIELD STRENGTH POWER METER

Model : EMF-831SD

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 , $\mu\text{W}/\text{cm}^2$, mW/cm^2 , W/cm^2 .
* 3 axis RF sensor.
* Backlight graphics dot matrix LCD with 4 function screens, digital and bar-graph display with warning symbol.
* Real time SD memory card Datalogger, it Built-in Clock and Calendar, real time data recorder , sampling time set from 1 second to 3600 seconds.
* Beeper will sound for warning if measuring data are over the alert value.
* Manual datalogger is available (set the sampling time to 0), during execute the manual datalogger function, it can set the different position (location) No. (position 1 to position 99).
* Innovation and easy operation, computer is not need to setup extra software, after execute datalogger, just take away the SD card from the meter and plug in the SD card into the computer, it can down load the all the measured value with the time information (year/month/date/ hour/minute/second) to the Excel directly, then user can make the further data or graphic analysis by themselves.
* SD card capacity : 1 GB to 16 GB.
* 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.	
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	53u A/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

Datalogger Sampling Time Setting range	Auto	1 second to 3600 seconds <i>@ Sampling time can set to 1 second, but memory data may loss.</i>
	Manual	Push the data logger button once will save data one time. <i>@ Set the sampling time to 0 second. @ Manual mode, can also select the 1 to 99 position (Location) no.</i>
Memory Card	SD memory card. 1 G to 16 G.	
Advanced setting	<ul style="list-style-type: none"> * Set clock time (Year/Month/Date, Hour/Minute/ Second) * Decimal point of SD card setting * Auto power OFF management * Set beep Sound ON/OFF * Warning value setting. * Set Cal. * Set sampling time * SD memory card Format 	
Data Hold	Freeze the display reading.	
Memory Recall	Maximum & Minimum value.	
Sampling Time of Display	Approx. 1 second.	
Data Output	RS 232/USB PC computer interface. <ul style="list-style-type: none"> * Connect the optional RS232 cable UPCB-02 will get the RS232 plug. * Connect the optional USB cable USB-01 will get the USB plug. 	
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 (w/o SD card save data and LCD Backlight is OFF) : <i>Approx. DC 3.5 mA.</i> When SD card save the data but and LCD Backlight is OFF) : <i>Approx. DC 28 mA.</i> <ul style="list-style-type: none"> * 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	SD Card (2 GB) 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.	

PATENT	CHINA : ZL 2008 2 0189918.5 ZL 2008 2 0189917.0	TAIWAN : M 358970 M 359043
	Germany : Nr. 20 2008 016 337.4 JAPAN : 3151214	U.S.A. : Pending

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

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