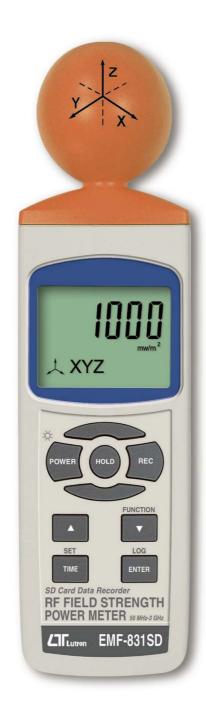
SD card real time recorder High sensitivity, 50 MHz to 3.5 GHz

RF FIELD STRENGTH POWER METER

Model: EMF-831SD *ISO-9001, CE, IEC1010*









The Art of Measurement

SD card real time data recorder

RF FIELD STRENGTH POWER METER

Model: EMF-831SD

FEATURES

* High radio frequency electromagnetic wave field strength measurement.					
* Radio field strength power measurement : GSM, CDMA, TDMA, WiFi,					
WiMAX Bluetooth, security system, cordless phones, Zigbee					
* Microwave oven leakage detection.					
* Frequency range : Wide band, 50 MHz to 3.5 GHz.					
* Measuring unit :					
V/m, mA/m, mV/m, mW/m^2, uA/m, uW/cm^2, uW/m^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 SPECI	FICATIONS
Circuit	Custom one-

Circuit Custom one-chip of microprocessor LSI			
	circuit.		
Display	LCD size : 52 mm x 38 mm		
LCD with backlight (on/off).			
Measurement	V/m		
Unit	mA/m		
J	mV/m		
	mW/m^2		
	uA/m		
	uW/cm^2		
	uW/m^2		
	uw/iii z		
Frequency range	50 MHz to 3.5 GHz.		
Sensor axis no.	3 axis RF sensor.		
Unit/Range	Unit	Range	
	mV/m, V/m	20 mV/m to 25.0 V/m	
	uA/m, mA/m	53.0 u A/m to 66.31 mA/m	
	uW/m^2, mW/m^2	1.0 uW/m^2 to 1657.8 mW/m^2	
	uW/cm^2	0.001 uW/cm^2 to 165.78 uW/cm^2	
Unit/Resolution	Unit	Resolution	
	mV/m, V/m	0.1 mV/m to 0.1 V/m	
	uA/m, mA/m	0.1 uA/m to 0.01 mA/m	
	uW/m^2, mW/m^2	0.1 uW/m^2 to 0.1 mW/m^2	
	uW/cm^2	0.001 uW/cm^2 to 0.01 uW/cm^2	
Absolute error	± 1.0 dB	·	
@ 1 V/m, 100 MHz			

Frequency	± 1.0 dB	(50 MHz to 1.9 GHz)			
response	± 2.4 dB	(1.91 GHz to 3.5 GHz)			
@Taking into accoun	ŧ				
typ. Cal. factor					
Temperature	± 0.5 dB				
response					
@ 0 to 50 °C					
Datalogger	Auto	1 second to 3600 seconds			
Sampling Time		@ Sampling time can set to 1 second,			
Setting range		but memory data may loss.			
	Manual	Push the data logger button once will			
		save data one time.			
		@ Set the sampling time to 0 second.			
		@ Manual mode, can also select the 1 to 99			
		position (Location) no.			
Memory Card	SD memory	/ card. 1 G to 16 G.			
Advanced	* Set clock t	ime (Year/Month/Date,			
setting	g Hour/Minute/ Second)				
	* Decimal point of SD card setting				
	* Auto power OFF management				
	* Set beep Sound ON/OFF				
	* Warning value setting.				
	* Unit setting	~			
* Set sampling time					
	* SD memory card Format				
Data Hold	Freeze the display reading.				
Memory Recall	Maximum & Minimum value.				
Sampling Time of Display					
Data Output	Pata Output RS 232/USB PC computer interface.				
	* 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 0 to 50 $^{\circ}$ C.				
Temperature					
Operating Humidity	Less than 8	5% R.H.			
Power Supply	*.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		eration (w/o SD card save			
	data and LCD Backlight is OFF) :				
		DC 17 mA.			
		ard save the data but and			
	LCD Backlight is OFF):				
	Approx. DC 40 mA.				
		acklight on, the power			
		ntion will increase approx. 4 mA			
Weight	385 g/0.85				
Dimension	235 x 68 x				
Accossorios	,	x 1.9 inch).			
Accessories Included	instruction	IIIdiludi I PC			
Optional	SD Card (4	LGB)			
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.				
		ying case, CA-06.			
	1	ng case, CA-05A.			

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