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**

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*	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.			

<b>GENERAL SPECI</b>	<b>FICATIONS</b>
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			
	mV/m			
	mW/m²			
	uA/m			
	uW/cm²			
	uW/m²			
	W/m²			
	mW/cm²			
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/m², mW/m²	1 uW/m² to 1.65 W/m²		
	uW/cm²	0 uW/cm² to 0.165 mW/cm²		
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/m² , mW/m²	0.1 uW/m² to 0.1 mW/m²		
	uW/cm²	0.001 uW/cm² to 0.01 uW/cm²		
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	ł				
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	Manual	but memory data may loss.  Push the data logger button once will			
	Iviariuai	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		ime ( Year/Month/Date,			
setting	Hour/Minu	te/ Second )			
	* Decimal po	pint of SD card setting			
	* Auto powe	er OFF management			
	* Set beep S	Sound ON/OFF			
	* Warning v	•			
	* Unit settin	•			
	* Set sampli	- <del>-</del>			
D. I. II. II.		y card Format			
Data Hold		display reading.			
Memory Recall Sampling Time	Approx. 1 s	Minimum value.			
of Display	Арргох. 1 3	econa.			
Data Output	RS 232/US	B PC computer interface.			
Sata Satpat		the optional RS232 cable			
		will get the RS232 plug.			
	* Connect the optional USB cable				
	USB-01 v	vill get the USB plug.			
Operating	0 to 50 ℃.				
Temperature					
Operating	Less than 8	85% R.H.			
Humidity					
Power Supply		or heavy duty DC 1.5 V battery			
	( UM3, AA ) x 6 PCs, or equivalent.  *.DC 9V adapter input. ( AC/DC power				
		is optional).			
Power Current	· ·	eration ( w/o SD card save			
Tower ourrent		CD Backlight is OFF) :			
	Approx. DO				
	When SD c	ard save the data but and			
	LCD Backlight is OFF) :				
	Approx. DC 50 mA.				
	* . If LCD be	acklight on, the power			
	consump	tion will increase approx. 4 mA			
Weight	244 g/0.54				
Dimension	177 x 68 x				
A a a a a a	(7 x 2.7 x 1				
Accessories	Instruction	manual1 PC			
Included	SD Card (	I CR )			
Optional Accessories	SD Card ( 4 GB )				
ACCESSOLIES	AC to DC 9V adapter. USB power to DC 9V converter, USBP-59				
	USB cable, USB-01.				
	RS232 cable, UPCB-02.				
		sition software, SW-U801-WIN.			
		acquisition software, SW-E802.			
	Hard carrying case, CA-06.				
	1	g case, CA-05A.			

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