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.				

GENERAL SPECIFICATIONS

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/m^2			
	uA/m			
	uW/cm^2			
	uW/m^2			
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 account	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		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 time (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	alue setting.		
	* Unit setting	S		
	* Set sampli	ng time		
	* SD memor	y card Format		
Data Hold	Freeze the	display reading.		
Memory Recall	Maximum 8	& Minimum value.		
Sampling Time	Approx. 1 s	second.		
of Display				
Data Output		3 PC computer interface.		
		the optional RS232 cable		
		will get the RS232 plug.		
		the optional USB cable		
		vill get the USB plug.		
Operating	0 to 50 ℃.			
Temperature		STOCK DILL		
Operating	Less than 8	35% R.H.		
Humidity	* All I'	L		
Power Supply	* Alkaline or heavy duty DC 1.5 V battery			
	_	A) x 6 PCs, or equivalent.		
		dapter input. (AC/DC power		
Dower Current	· ·	s optional).		
Power Current		eration (w/o SD card save		
		CD Backlight is OFF): DC 17 mA.		
		ard save the data but and		
		ard save the data but and ght is OFF) :		
	,	gnt is OFF) : DC 40 mA.		
		acklight on, the power		
Weight	385 g/0.85	tion will increase approx. 4 mA		
Weight Dimension	235 x 68 x			
Diffiction		x 1.9 inch).		
Accessories	,	manual1 PC		
Included	straction			
Optional	SD Card.			
Accessories		V adapter		
, 10003301103	AC to DC 9V adapter. USB power to DC 9V converter, USBP-59			
	USB cable,			
	1	e, UPCB-02.		
		e, 0FCB-02. sition software, SW-U801-WIN.		
		acquisition software, SW-E802.		
		ng case, CA-06.		
		ng case, CA-00.		
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