SD Card real time data recorder

EMF TESTER 3 axis

Model : EMF-8218SD ***ISO-9001, CE, IEC1010***

Lutron

LUTRON ELECTRONIC

The Art of Measurement

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FEATURES

* Each axis (X, Y, Z direction)electromagnetic field measurement.
* Sum of XYZ electromagnetic field measurement.
* Range : 20/200/2000 micro Tesla. 200/2000/20000 milli-Gauss.
* Measurement Bandwidth : 30Hz to 300Hz.
* Non-directional (isotropic) measurement with three-channel (triaxial) measurement probe
* Microcomputer circuit provides intelligent function and high accuracy.
* Real time SD memory card Datalogger, it Built-in Clock and Calendar, real time data recorder, sampling time set from 0 second to 3600 seconds.
* Manual datalogger is available (set the sampling time to 0 second), 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.
* Heavy duty & compact housing case.

General Specifications

Circuit	Custom one-chip of microprocessor LSI circuit.	
Display	LCD size : 52 mm x 30 mm	
Measurement method	Digital, triaxial measurement.	
Range	Manual	
Datalogger Sampling Time Setting range	Auto	2 to 3600 seconds *@ Sampling time can set to 1 second, 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.*
Data error no.	≦ 0.1 % no. of total saved data typically.	
Memory Card	SD memory card. 1 GB to 16 GB.	
Advanced setting	* SD memory card Format * Set clock time (Year/Month/Date, Hour/Minute/ Second) * Set sampling time * Auto power OFF management * Set beep Sound ON/OFF * Decimal point of SD card setting	

Over Indication	Show " - - - - ".
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. * *Connect the optional RS232 cable UPCB-02 will get the RS232 plug.* * *Connect the optional USB cable USB-01 will get the USB plug.*
Power off	Auto shut off saves battery life or manual off by push button.
Operating Temperature	0 ~ 50 ℃
Operating Humidity	Less than 85% R.H.
Power Supply	* *Batteries(UM3, AA) x 6 PCs, or equivalent.* * *AC/DC power adapter .* (adapter is optional).
Power Current	Normal operation : (w/o SD card save data) :Approx. DC 24 mA. (w/o Backlight) :Approx. DC 18 mA. When SD card save the data : Approx. DC 50 mA.
Weight	480 g/1.05 LB (meter & probe).
Dimension	178 x 68 x 45 mm (7.0 x 2.7x 1.8 inch)
Accessories Included	* Instruction manual..... 1 PCS
Optional Accessories	* SD Card (4 GB) * USB cable, USB-01. * RS232 cable, UPCB-02. * Data Acquisition software, * SW-U801-WIN., SW-E802. AC to DC 9V adapter.

Electrical Specifications (23±5 ℃ , 25% ~ 80 % RH)

Frequency bandwidth	30Hz to 300Hz
Units	mGauss, μTesla.
measurement range and resolution: NOTE: 1 μTesla = 10 mGauss	20μTesla (0.01) and 200mGauss (0.1) 200μTesla (0.1) and 2000mGauss (1) 2000μTesla (1) and 20,000mGauss (10)
Accuracy (stated for 50/60Hz)	± (4%FS + 3 digits) @ 20 micro Tesla range @ 200 milli Gauss range
	± (5%FS + 3 digits) @ 200 micro Tesla range @ 2,000 milli Gauss range
	± (10%FS + 3 digits) @ 2000 micro Tesla range @ 20,000 milli Gauss range
	* Spec. accuracy tested under 50 Hz or 60 Hz.
Sensor (with typical CAL factors	coil
Overload limit	20000mGauss
Thermal response (0 to 50°)	0.5 Sec.

@ Above specification tests under the environment RF Field Strength less than 3 V/M & frequency less than 30 MHz only.