SD Card real time data recorder, Patented Spectral response: 400 to 1100 nm.

SOLAR POWER METER

Model : SPM-1116SD





ISO-9001, CE, IEC1010



The Art of Measurement

SD Card real time recorder SOLAR POWER METER Model : SPM-1116SD

FEATURES

F	EATURES		
*		lar power, Power integration, Transmission.	
	Wide spectral range.		
*	Excellent long term stability.		
*	Select either W/m^2 or Btu / (ft^2xh) power units.		
	Cosine corrected.		
*		eteorology agriculture solar radiation	
		solar power research physics and optical	
	laboratories so	ar transmission measurement identify	
	high performance windows		
*	Separate probe	easy for operation of different	
	measurement environment.		
*	Both meter and	probe are built the Tripod Fix Nut, easy	
	installation.		
*	Real time SD m	emory card Datalogger, it Built-in Clock	
	and Calendar, real time data recorder , sampling time set		
from 1 second to 3600 seconds.			
*	 Manual datalogger is available (set the sampling 		
		ng execute the manual datalogger	
		set the different position (location) No.	
	(position 1 to p		
*	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.		
 LCD with green light backlight, easy reading. 			
* 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.		
	K3232/03B FC computer internace.		
*	Patented.		
_	PECIFICATION		
F	unction	Solar power	
		Transmission (%)	
_		Solar power integration	
	pectral	400 to 1100 nm	
response			
	easuring	Solar power:	
Unit		W/m^2, Btu/(ft^2 x h)	
		Transmission : %	
		Solar power integration :	
1		$M/h/m \land 2$ $D + 1/(f + \land 2)$	

Wh/m^2, Btu/(ft^2)

± 10 W/m^2 typically,

or ± 5% reading,

@23 ± 5 °C

2000 W/m^2, 634 Btu/(ft^2 x h)

 $0.1 \text{ Btu/(ft^2 x h)} < 317 \text{ Btu/(ft^2 x h)}$ $1 \text{ Btu/(ft^2 x h)} \ge 317 \text{ Btu/(ft^2 x h)}$

 $\geq 1000 \text{ W/m}^2$

0.1 W/m^2 <1000 W/m^2

± 3 Btu / (ft^2 x h) typically,

@ whichever is greater in sunlight

Range

1 W/m^2

Solar power

Solar power

Resolution

Solar power

Accuracy

Angular accuracy

Range/

Circuit	Custom one-chip of microprocessor LSI circuit.
Display	LCD size : 52 mm x 38 mm LCD with green backlight (ON/OFF).
Zero Adj.	By push button.
Datalogger	Auto 1 second to 3600 seconds
Sampling Time	@ Sampling time can set to 1 second,
Setting range	, ,
Setting range	but memory datamay loss.ManualPush the data logger button
	55
	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/Minute/ Second)
	* Set sampling time
	* Auto power OFF management
	* Set beep Sound ON/OFF
	* Decimal point of SD card setting
	* SD memory card Format
Data Hold	Freeze the display reading.
Memory Recall	Maximum & Minimum value.
Sampling Time	Approx. 1 second.
of Display	
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.
Operating	0 to 50 ℃.
Temperature	
Operating	Less than 85% R.H.
Humidity	* Allerling on bosing duty DC 1 5 M bottom
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	Normal operation (w/o SD card save
	data and LCD Backlight is OFF) :
	Approx. DC 6.5 mA.
	When SD card save the data but and
	LCD Backlight is OFF) :
	Approx. DC 30 mA.
	* If LCD backlight on, the power
	consumption will increase approx.
	16 mA.
Weight	346 g/0.76 LB.
Dimension	Main instrument :
	182 x 73 x 47.5 mm (7.1 x 2.9 x 1.9 inch)
	Sensor probe :
Chanalan I	38 mm DIA. x 25 mm.
Standard	* Instruction manual1 PC
Accessories	* Solar sensor 1 PC
Included	* Hard carrying case, CA-061 PC
Optional	* SD Card (1 GB)
Accessories	* SD Card (2 GB)
	* AC to DC 9V adapter.
	* USB cable, USB-01.
	* RS232 cable, UPCB-02.
	* Data Acquisition software,
	SW-U801-WIN, SW-E802

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

Cosine corrected <5% for angles < 60°