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

SOLAR POWER METER

Model : SPM-1116SD





The Art of Measurement

ISO-9001, CE, IEC1010

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

FEATURES

* 3 functions :	Solar power, Power integration, Transmission.		
* Wide spectra	al range.		
* Excellent Ion	ng term stability.		
* Select either	W/m^2 or Btu / (ft^2xh) power units.		
* Cosine corre	cted.		
* Application :	Meteorology agriculture solar radiation		
measuremen	nt solar power research physics and optical		
laboratories	solar transmission measurement identify		
high perform	nance windows		
* Separate pro	bbe, easy for operation of different		
measuremer	nt environment.		
* Both meter a	and probe are built the Tripod Fix Nut, easy		
installation.			
* Real time SE) memory card Datalogger, it Built-in Clock		
and Calenda	r, real time data recorder , sampling time set		
from 1 secor	nd to 3600 seconds.		
* Manual data	Manual datalogger is available (set the sampling		
time to 0), o	to 0), during execute the manual datalogger		
function, it c	it can set the different position (location) No.		
(position 1)	to position 99).		
* Innovation a	and easy operation, computer is not		
need to setu	ip extra software, after execute		
datalogger, j	just take away the SD card from the		
meter and p	lug in the SD card into the computer,		
it can down	load the all the measured value with		
the time info	prmation (year/month/date/		
hour/minute	/second) to the Excel directly, then		
user can ma	ke the further data or graphic		
analysis by t	inemseives.		
SD card capa * LOD with any	acity : 1 GB to 16 GB.		
<u>LCD with gree</u>	een light backlight, easy reading.		
* Can default	auto power off or manual power off.		
	ecord max, and min, reading.		
* Nicrocomput	ter circuit, nign accuracy.		
* Power by UK	M3/AA (1.5 V) X 6 Datteries of DC 9V adapter.		
* Detented			
ratenteu.			
SPECIFICATI	ONS		
Function	Solar power		
	Transmission (%)		
	Solar power integration		
Spectral	400 to 1100 nm		
response			
Measuring	Solar power:		
Unit	W/m^2 Btu/(ft ² x h)		
	Transmission : %		
	Solar power integration :		

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)

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

≥1000 W/m^2

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

± 3 Btu / (ft² 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		
<u> </u>	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		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/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/l	JSB 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 °	<u>с.</u>	
Temperature			
Operating	Less than 85% R.H.		
Humidity			
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 I CD Backlight is OFF)		
	Annrox DC. 6.5 mA		
	When SD card save the data but and		
	I CD Backlight is OFF) ·		
	$\Delta nnray DC 30 mA$		
	* If I CD backlight on the nower		
	consumption will increase approv		
	16 m		
Woight	216 ~10	1. 76 R	
Dimonsion	Jain incl	10 LD.	
Dimension	$102 \times 72 \times 47.5 \text{ mm} (7.1 \times 2.0 \times 1.0 \text{ mch})$		
	102 X /3 X 4/.3 MIII (/.1 X 2.9 X 1.9 MCN) Sensor probe :		
	$38 \text{ mm} \text{DIA} \times 25 \text{ mm}$		
Ctondond	38 mm		
Siandard	Instruction manual		
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-U8	301-WIN, SW-E802	

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

Cosine corrected <5% for angles < 60°