SD Card, real time data recorder, Patented
+TYPE K/J Thermometer

UVC LIGHT METER

Model : UVC-254SD *ISO-9001, CE, IEC1010*

Lutron

LUTRON ELECTRONIC

The Art of Measurement

SD Card real time data recorder
+ type K/J thermometer
UVC LIGHT METER
Model : UVC-254SD

FEATURES

* Professional UVC light meter.
* Short wave 254 nm ultra-violet irradiance measurement. Professional UVC light meter, used to measure the UVCirradiation value under the UVC light source.
* Two ranges : 2 mW/cm^2, 20 mW/cm^2.
* Exclusive UVC sensor structure with metallic housing case.
* UVC LSensor with cosine correction filter.
* It build the Zero button.
* Microprocessor circuit provides high reliability and durability.
* Separate UVC LIGHT probe allows user to measure the UVC light at an optimum position.
* Type K, Type J thermocouple thermometer.
* 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.
* 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.
* 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 (optional).
* 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 green backlight (ON/OFF).	
Measurement	UVC Light . Type K/J thermometer .	
UV Sensor spectrum	200 nm to 280 nm. * Refer to the following attached spectrum diagram.	
UVC 'sensor structure	The exclusive UVC photo sensor with the cosine correction filter.	
UVC light zero adjustment	By push button.	
Memory with Recall	Records Maximum & Minimum reading with recall.	
Datalogger Sampling Time Setting range	Auto	1 second 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.
Memory Card	SD memory card. 1 GB to 16 GB.	
Advanced setting	* Set clock time (Year/Month/Date, Hour/Minute/ Second) * Decimal point of SD card setting * Auto power OFF management * Set beep Sound ON/OFF * Set thermometer type to Type K or Type J * Set temperature unit to ℃ or ℉ * Set sampling time * SD memory card Format	
Temperature Compensation	Automatic temp. compensation for the type K/J thermometer.	
Data Hold	Freeze the display reading.	
Memory Recall	Maximum & Minimum value.	
Sampling Time of Display	Approx. 1 second.	

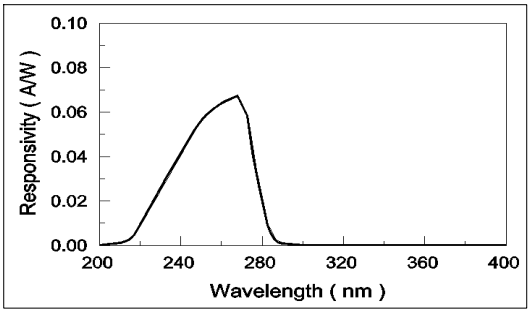
Data Output	RS 232/USB PC computer interface. * Connect the optional RS232 cable UPCB-02 will get the RS232 plug. * Connect the optional USB cable USB-01 will get the USB plug.	
Operating Temperature	0 to 50 ℃.	
Operating Humidity	Less than 85% R.H.	
Power Supply	* Alkaline or heavy duty DC 1.5 V battery (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	Meter	351 g.
	UVC probe	103 g.
	Meter	177 x 68 x 45 mm
	UVC probe	38 mm DIA. x 25 mm
Accessories Included	* Instruction manual.....1 PC * UVC light sensor.....1 PC * Hard carrying case, CA-06.....1 PC	
Optional Accessories	SD Card (2 GB) Type K thermocouple probe. AC to DC 9V adapter. USB cable, USB-01. RS232 cable, UPCB-02. Data acquisition software,SW-U801-WIN. Excel data acquisition software, SW-E802.	

ELECTRICAL SPECIFICATIONS (23± 5℃)

UVC Light

Measurement ranges & resolution	Range 1 : 2 mW/cm^2 : 1.999 mW/cm^2 x 0.001 mW/cm^2 Range 2 : 20 mW/cm^2 : 19.99 mW/cm^2 x 0.01 mW/cm^2
Accuracy	± (4 % FS + 2 dgt). FS : full scale * UVC Calibration is executed under the UVC light & and compare with the standard UVC light meter.

UVC SENSOR SPECTRUM



Type K/J thermometer

Sensor Type	Resolution	Range	Accuracy
Type K	0.1 ℃	-50.0 to 1300.0 ℃	± (0.4 % + 0.5 ℃)
		-50.1 to -100.0 ℃	± (0.4 % + 1 ℃)
	0.1 ℉	-58.0 to 2372.0 ℉	± (0.4 % + 1 ℉)
		-58.1 to -148.0 ℉	± (0.4 % + 1.8 ℉)
Type J	0.1 ℃	-50.0 to 1200.0 ℃	± (0.4 % + 0.5 ℃)
		-50.1 to -100.0 ℃	± (0.4 % + 1 ℃)
	0.1 ℉	-58.0 to 2192.0 ℉	± (0.4 % + 1 ℉)
		-58.1 to -148.0 ℉	± (0.4 % + 1.8 ℉)

PATENT	CHINA : ZL 2008 2 0189918.5 ZL 2008 2 0189917.0 TAIWAN : M 358970 M 359043 Germany : Nr. 20 2008 016 337.4 JAPAN : 3151214 U.S.A. : Pending

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