SD Card, real time data logger, + type K Temp., Patent

UVA, UVC LIGHT METER

Model: YK-37UVSD *ISO-9001, CE, IEC1010*











The Art of Measurement

SD Card real time data logger

UVA, UVC LIGHT METER

Model: YK-37UVSD

FEATURES

FI	EATURES
*	UVA, UVC light measurement in one meter.
*	Long wave 365 nm ultra-violet irradiance measurement.
	Professional UVA light meter, used to measure the
	UVA irradiation value under the UVA light (black light)
	source.
*	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 UV sensor structure with metallic housing case.
	UV LSensor with cosine correction filter.
	UV function build Zero button.
-	Application for the UV light measurement : Monitoring
	blue light radiation hazards in welding, UV sterilization ,
	Graphic arts, Photochemical matching, UV EPROM
	erasure, Photoresist exposure, Curing of inks, adhesives
	and coatings.
*	Microprocessor circuit provides high reliability and
	durability.
*	Separate UV LIGHT probe allows user to measure the
	UV 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.
<u> </u> ^	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 green backlight (ON/OFF).			
Measurement	UV Light: UVA, UVC			
	Type K/J thermometer			
UVA, UVC	Selct by pushin the front button.			
slectrion				
UV Sensor	240 nm t	to 390 nm.		
spectrum				
cover range				
UV 'sensor	The exclusive UV photo sensor with			
structure	the cosine correction filter.			
UV light zero	By push button.			
adjustment				
Memory with	Records Maximum & Minimum reading			
Recall	with recall.			
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 mem	ory card. 1 GB to 16 GB.		
1	1			

Advanced	* Set clock time (Year/Month/Date,			
setting	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 °C or °F			
	* Set sampling time			
	* SD memory card Format			
Temperature	Automatic temp. compensation for the			
Compensation	type K/J thermometer.			
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				
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	489 g/1.08 LB.			
Dimension	177 x 68 x 45 mm			
	(7.0 x 2.7x 1.9 inch)			
Accessories	* Instruction manual			
Included	* UV light sensor			
	* Soft carrying case (CA-05)1 PC			
Optional	SD Card (1 GB)			
Accessories	SD Card (1 GB)			
10003301103	Type K thermocouple probe.			
	AC to DC 9V adapter.			
	USB cable, USB-01.			
	,			
	RS232 cable, UPCB-02.			
	Data Acquisition software, SW-U801-WIN.			

ELECTRICAL SPECIFICATIONS (23±5℃)

UV Light (UVA, UVC)

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

Type K/J thermometer

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

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.