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

Patent Two probes : UVA probe, UVC probe

UVA, UVC LIGHT METER

Model: YK-37UVSD

ISO-9001, CE, IEC1010

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The Art of Measurement

UVA, UVC LIGHT METER

Model: YK-37UVSD <u>www.YaLAB.com.tw</u> 02-2389-0101

FEATURE

- * 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/cm², 20 mW/cm².
- * 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.
- * Power by UM3/AA (1.5 V) x 6 batteries or DC 9V adapter.
- * RS232/USB PC computer interface.

GENERAL SPECIFICATION

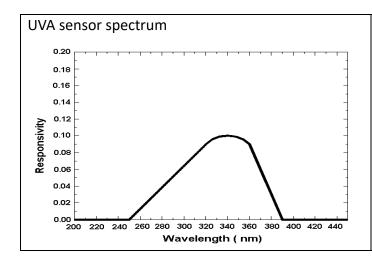
Circuit	Custom one-chip of microprocessor LSI circuit.		
Display	LCD size: 52 mm x 38 mm LCD with green backlight (ON/OFF).		
Measurement	UV Light: UVA, UVC , Type K/J thermometer		
UVA, UVC slectrion	Selct by pushin the front button.		
UV Sensor spectrum cover range	UVA: 250 nm to 390 nm. UVC: 200 nm to 290 nm.		
UV 'sensor structure	The exclusive UV photo sensor with the cosine correction filter.		
UV light zero adjustment	By push button.		
Memory with Recall	Records Maximum & Minimum reading with recall.		
Datalogger Sampling Time	Auto	1 second to 3600 seconds	
Setting range		@ Sampling time can set to 1 second, but memory data may	
		loss.	

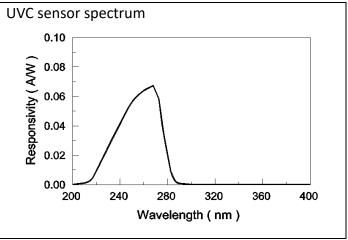
	Manual Pu	ush the data logger button once will save data one time.				
		② Set the sampling time to 0 second.				
		Manual mode, can also select the				
	1	to 99 position (Location) no.				
Memory Card	SD memory card. 1 GB to 16 GB.					
Advanced setting	* Set clock time (Year/Month/Date, Hour/Minute/ Second)					
	Decimal point of SD card setting					
	* Auto power OFF management					
Temperature Compensation	Automatic temp. compensation for the type K/J thermometer.					
Advanced setting	* Set beep Sound ON/OFF					
	* Set thermometer type to Type K or Type J					
	$_{*}$ Set temperature unit to $^{\circ}\mathbb{C}$ or $^{\circ}\mathbb{F}$					
	*Set sampling time					
	*SD memory card Format					
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	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 ada	* 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.	one only the period consumption that more deep approximate				
Weight	Meter	351 g.				
	UVA probe					
	UVC probe					
	Meter	177 x 68 x 45 mm				
	UVA probe	Head 45 mm dia x 32 mm				
		Handle 125 x 24 mm dia.				
	UVC probe	38 mm DIA. x 25 mm				
Accessories Included	* Instruction	n manual 1 PC				
	* UVA light	sensor 1 PC				
	* UVC light sensor 1 PC					
	* Hard carrying case, CA-061 PC					
Optional Accessories	* SD Card (4 GB)					
	* Type K the	ermocouple probe.				
	TP-01, TO-02A, TP-03, TP-04, TP-05 * 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 \pm 5 $^{\circ}$ C)

UV Light (UVA, UVC)

0 (, ,					
Measurement ranges &	Range 1: 2 mW/cm^2: 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	± (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 Type	Resolution	Range	Accuracy
Туре К	0.1 °C	-50.0 to 1300.0 ℃	± (0.4 % + 0.5 °C)
		-50.1 to -100.0 $^{\circ}\mathrm{C}$	± (0.4 % + 1 °C)
	0.1 °F	-58.0 to 2372.0 °F	± (0.4 % + 1 °F)
		-58.1 to -148.0 $^{\circ}\mathrm{F}$	\pm (0.4 % + 1.8 $^{\circ}\mathrm{F}$)
Type J	0.1 °C	-50.0 to 1200.0 ℃	± (0.4 % + 0.5 °C)
		-50.1 to -100.0 $^{\circ}\mathrm{C}$	± (0.4 % + 1 °C)
	0.1 °F	-58.0 to 2192.0 °F	± (0.4 % + 1 °F)
		-58.1 to -148.0 $^{\circ}\mathrm{F}$	\pm (0.4 % + 1.8 $^{\circ}\mathrm{F}$)

PATENT: CHINA:ZL200820189918.5 ZL200820189917.0 Germany:Nr.202008016337.4 JAPAN:3151214

1503-TM947SD

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