SD Card, real time data logger, + type K Temp., Patent Two probes : UVA probe, UVC probe

UVA, UVC LIGHT METER











The Art of Measurement

SD Card real time data logger

UVA, UVC LIGHT METER

Model: YK-37UVSD

FEATURES

H	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.
*	Power by UM3/AA (1.5 V) x 6 batteries or DC 9V
L	adapter.
*	RS232/USB PC computer interface.
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GENERAL SPECIFICATIONS
Circuit Custom one-chi

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	1	s Maximum & Minimum reading		
Recall	with reca			
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 GB to 16 GB.				
Advanced	* Set clock time (Year/Month/Date,			
setting	Hour/Minute/ Second)			
	* Decimal point of SD card setting			
	* Auto po	ower OFF management		
Temperature	Automatic temp. compensation for the			
Compensation	ompensation type K/J thermometer.			

Advanced	* Set beep Sound ON/OFF			
setting	* Set thermometer type to Type K or Type J			
	* Set temperature unit to ${}^\circ\!\mathrm{C}$ or ${}^\circ\!\mathrm{F}$			
	* Set sampling time			
	* SD memoi	ry card Format		
Data Hold	Freeze the display reading.			
Memory Recall				
Sampling Time				
of Display				
Data Output	RS 232/USB PC computer interface.			
	* Connect the optional RS232 cable			
	UPCB-02 will get the RS232 plug.			
		the optional USB cable		
	USB-01 will get the USB plug.			
Operating	0 to 50 °C.	in get the 63b plag.		
Temperature	0 10 30 0.			
Operating	Loss than S	25% D H		
Humidity	Less than 85% R.H.			
Power Supply	* Alkaline	or beavy duty DC 1.5 V battery		
rower Supply	*.Alkaline or heavy duty DC 1.5 V battery			
	(UM3, AA) x 6 PCs, or equivalent.			
	*.DC 9V adapter input. (AC/DC power			
Power Current	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.	054		
Weight	Meter	351 g.		
	UVA	100 g.		
	probe			
	UVC	103 g.		
	probe			
	Meter	177 x 68 x 45 mm		
	UVA	Head 45 mm dia x 32 mm		
	probe	Handle 125 x 24 mm dia.		
	UVC	38 mm DIA. x 25 mm		
	probe			
Accessories		on manual1 PC		
Included	* UVA light sensor1 PC			
	* UVC light sensor			
Optional	* SD Card (2 GB)			
Accessories	* Type K thermocouple probe.			
	TP-01, TO-02A, TP-03, TP-04, TP-05			
	* AC to DC 9V adapter.			
	* USB cabl	e, USB-01.		
	1			
	* Data Acc	uisition software, SW-U801-WIN.		
Optional	* UVC light sensor			

ELECTRICAL SPECIFICATIONS (23±5 $^{\circ}$ C)

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

PATENT	CHINA: ZL 2008 2 0189918.5 ZL 2008 2 0189917.0			
	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.