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*





UVA probe



The Art of Measurement

UVA, UVC LIGHT METER Model: YK-37UVSD

FEATURES

•	LATORES
*	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.
Π	LCD with green light backlight, easy reading.
	Can default auto power off or manual power off.
Т	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.
-	NOTOT, SOD TO COMPARCE INCOMACC.

GENERAL SPECIFICATIONS

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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	UVA: 260 nm to 390 nm.					
spectrum	UVC: 200 nm to 280 nm.					
cover range						
UV 'sensor	The exclusive UV photo sensor with					
structure	the cosine correction filter.					
UV light zero	By push button.					
adjustment						

1				
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 memory card. 1 GB to 16 GB.			
Advanced	* Set clock time (Year/Month/Date,			
setting	Hour/Minute/ Second)			
Setting	* Decimal point of SD card setting			
	* Auto power OFF management			
Tomporaturo	Automati	s town, componentian for the		
Temperature	Automatic temp. compensation for the			
Compensation				
Advanced	* Set beep Sound ON/OFF			
setting	* Set thermometer type to Type K or Type J			
	* Set temperature unit to ${}^\circ\! C$ or ${}^\circ\! F$			
	* Set sampling time			
	* SD men	nory card Format		
Data Hold	Freeze th	ne display reading.		
Memory Recall	Maximun	n & Minimum value.		
Sampling Time	Approx.	1 second.		
of Display				
Data Output	RS 232/L	JSB PC computer interface.		
	* Connec	ct the optional RS232 cable		
	UPCB-0	02 will get the RS232 plug.		
		ct the optional USB cable		
		will get the USB plug.		
Operating	0 to 50 °C			
Temperature				
Operating	Less than 85% R.H.			
' '				
IHumidity	* Alkaline or heavy duty DC 1.5 V hattery			
Humidity Power Supply	* Alkalin	e or heavy duty DC 1.5 V battery		
Humidity Power Supply		e or heavy duty DC 1.5 V battery		
	(UM3,	AA) x 6 PCs, or equivalent.		
	(UM3,	AA) x 6 PCs, or equivalent. adapter input. (AC/DC power		
Power Supply	(UM3, * ADC 9V adapte	AA) x 6 PCs, or equivalent. adapter input. (AC/DC power er is optional).		
	(UM3, * ADC 9V adapte	AA) x 6 PCs, or equivalent. adapter input. (AC/DC power er is optional). peration (w/o SD card save		
Power Supply	(UM3, * ADC 9V adapte Normal o	AA) x 6 PCs, or equivalent. adapter input. (AC/DC power er is optional). peration (w/o SD card save LCD Backlight is OFF) :		
Power Supply	(UM3, * ADC 9V adapte Normal odata and Approx	AA) x 6 PCs, or equivalent. adapter input. (AC/DC power er is optional). operation (w/o SD card save LCD Backlight is OFF): c. DC 6.5 mA.		
Power Supply	(UM3, * ADC 9V adapte Normal odata and Approx When SE	AA) x 6 PCs, or equivalent. adapter input. (AC/DC power er is optional). operation (w/o SD card save LCD Backlight is OFF) : c. DC 6.5 mA. o card save the data but and		
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Power Supply	(UM3, * ADC 9V adapte Normal o data and Approx When SD LCD Back Approx * Af LCD	AA) x 6 PCs, or equivalent. adapter input. (AC/DC power er is optional). operation (w/o SD card save LCD Backlight is OFF) : c. DC 6.5 mA. card save the data but and clight is OFF) : c. DC 30 mA.		
Power Supply	(UM3, * ADC 9V adapte Normal o data and Approx When SD LCD Back Approx * Af LCD	AA) x 6 PCs, or equivalent. adapter input. (AC/DC power er is optional). operation (w/o SD card save LCD Backlight is OFF): c. DC 6.5 mA. card save the data but and clight is OFF): c. DC 30 mA. backlight on, the power option will increase approx.		
Power Supply	(UM3, * ADC 9V adapte Normal o data and Approx When SD LCD Back Approx * Af LCD consur	AA) x 6 PCs, or equivalent. adapter input. (AC/DC power er is optional). operation (w/o SD card save LCD Backlight is OFF): c. DC 6.5 mA. card save the data but and clight is OFF): c. DC 30 mA. backlight on, the power option will increase approx.		
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Power Supply Power Current	(UM3, * ADC 9V adapte Normal o data and Approx When SD LCD Back Approx * Af LCD consur 16 mA	AA) x 6 PCs, or equivalent. adapter input. (AC/DC power er is optional). pperation (w/o SD card save LCD Backlight is OFF) : c. DC 6.5 mA. 0 card save the data but and clight is OFF) : c. DC 30 mA. backlight on, the power mption will increase approx		
Power Supply Power Current	(UM3, * ADC 9V adapte Normal of data and Approx When SD LCD Back Approx * Af LCD consur 16 mA Meter UVA	AA) x 6 PCs, or equivalent. adapter input. (AC/DC power er is optional). pperation (w/o SD card save LCD Backlight is OFF) : c. DC 6.5 mA. 0 card save the data but and clight is OFF) : c. DC 30 mA. backlight on, the power mption will increase approx		
Power Supply Power Current	(UM3, * ADC 9V adapte Normal of data and Approx When SD LCD Back Approx * Af LCD consur 16 mA Meter UVA probe	AA) x 6 PCs, or equivalent. adapter input. (AC/DC power er is optional). pperation (w/o SD card save LCD Backlight is OFF) : c. DC 6.5 mA. clight is OFF) : c. DC 30 mA. backlight on, the power experion will increase approx 351 g. 100 g.		
Power Supply Power Current	(UM3, * ADC 9V adapte Normal of data and Approx When SD LCD Back Approx * Af LCD consur 16 mA Meter UVA probe UVC probe	AA) x 6 PCs, or equivalent. adapter input. (AC/DC power er is optional). pperation (w/o SD card save LCD Backlight is OFF) : c. DC 6.5 mA. 0 card save the data but and clight is OFF) : c. DC 30 mA. backlight on, the power experience in the power mption will increase approx. 351 g. 100 g.		
Power Supply Power Current	(UM3, * ADC 9V adapte Normal of data and Approx When SD LCD Back Approx * Af LCD consur 16 mA Meter UVA probe UVC probe Meter	AA) x 6 PCs, or equivalent. adapter input. (AC/DC power er is optional). pperation (w/o SD card save LCD Backlight is OFF) : c. DC 6.5 mA. O card save the data but and clight is OFF) : c. DC 30 mA. backlight on, the power experience in the power mption will increase approx. 351 g. 100 g.		
Power Supply Power Current	(UM3, * ADC 9V adapte Normal of data and Approx When SD LCD Back Approx * Af LCD consur 16 mA Meter UVA probe UVC probe Meter UVA	AA) x 6 PCs, or equivalent. adapter input. (AC/DC power er is optional). pperation (w/o SD card save LCD Backlight is OFF) : c. DC 6.5 mA. 0 card save the data but and clight is OFF) : c. DC 30 mA. backlight on, the power experimental increase approx. 351 g. 100 g. 177 x 68 x 45 mm Head Head Head Head Head Head Head Head		
Power Supply Power Current	(UM3, * ADC 9V adapte Normal of data and Approx When SD LCD Back Approx * Af LCD consur 16 mA Meter UVA probe UVC probe Meter UVA probe	AA) x 6 PCs, or equivalent. adapter input. (AC/DC power er is optional). pperation (w/o SD card save LCD Backlight is OFF) : c. DC 6.5 mA. 0 card save the data but and clight is OFF) : c. DC 30 mA. backlight on, the power experience in the pow		
Power Supply Power Current	(UM3, * ADC 9V adapte Normal of data and Approx When SD LCD Back Approx * Af LCD consur 16 mA Meter UVA probe UVC Meter UVA probe UVC	AA) x 6 PCs, or equivalent. adapter input. (AC/DC power er is optional). pperation (w/o SD card save LCD Backlight is OFF) : c. DC 6.5 mA. 0 card save the data but and clight is OFF) : c. DC 30 mA. backlight on, the power experimental increase approx. 351 g. 100 g. 177 x 68 x 45 mm Head Head Head Head Head Head Head Head		
Power Supply Power Current Weight	(UM3, * ADC 9V adapte Normal of data and Approx When SD LCD Back Approx * Af LCD consur 16 mA Meter UVA probe UVC probe UVC probe	AA) x 6 PCs, or equivalent. adapter input. (AC/DC power er is optional). speration (w/o SD card save LCD Backlight is OFF) : c. DC 6.5 mA. card save the data but and clight is OFF) : c. DC 30 mA. backlight on, the power ention will increase approx. 100 g. 103 g. 177 x 68 x 45 mm Head 45 mm dia x 32 mm Handle 125 x 24 mm dia. 38 mm DIA. x 25 mm		
Power Supply Power Current Weight Accessories	(UM3, * ADC 9V adapte Normal of data and Approx When SD LCD Back Approx * Af LCD consur 16 mA Meter UVA probe UVC probe UVC probe * Instruce * Instruce	AA) x 6 PCs, or equivalent. adapter input. (AC/DC power er is optional). peration (w/o SD card save LCD Backlight is OFF): c. DC 6.5 mA. card save the data but and clight is OFF): c. DC 30 mA. backlight on, the power ention will increase approx. 100 g. 103 g. 177 x 68 x 45 mm Head 45 mm dia x 32 mm Handle 125 x 24 mm dia. 38 mm DIA. x 25 mm tition manual		
Power Supply Power Current Weight	(UM3, * ADC 9V adapte Normal of data and Approx When SD LCD Back Approx * Af LCD consur 16 mA Meter UVA probe UVC probe Meter UVA probe UVC probe * Instruc * UVA lig	AA) x 6 PCs, or equivalent. adapter input. (AC/DC power er is optional). peration (w/o SD card save LCD Backlight is OFF): c. DC 6.5 mA. card save the data but and clight is OFF): c. DC 30 mA. backlight on, the power ention will increase approx. 100 g. 103 g. 177 x 68 x 45 mm Head 45 mm dia x 32 mm Handle 125 x 24 mm dia. 38 mm DIA. x 25 mm ction manual		
Power Supply Power Current Weight Accessories	(UM3, * ADC 9V adapte Normal of data and Approx When SD LCD Back Approx * Af LCD consur 16 mA Meter UVA probe UVC probe Meter UVA probe UVC probe * Instruc * UVA lig * UVC lig * Instruct * UVC lig *	AA) x 6 PCs, or equivalent. adapter input. (AC/DC power er is optional). peration (w/o SD card save LCD Backlight is OFF): c. DC 6.5 mA. card save the data but and clight is OFF): c. DC 30 mA. backlight on, the power ention will increase approx. 100 g. 103 g. 177 x 68 x 45 mm Head 45 mm dia x 32 mm Handle 125 x 24 mm dia. 38 mm DIA. x 25 mm tition manual		

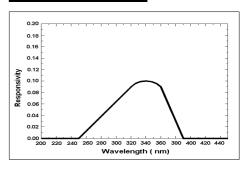
Optional	* SD Card (4 GB)
Accessories	* Type K thermocouple probe.
	TP-01, TO-02A, TP-03, TP-04, TP-05
	* AC to DC 9V adapter.
	* USB cable, USB-01.
	* RS232 cable, UPCB-02.
	* Data Acquisition software,SW-U801-WIN.
	* Excel Data Acquisition software,SW-E802

ELECTRICAL SPECIFICATIONS (23±5 ℃)

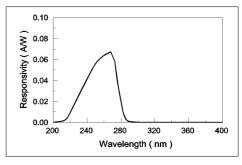
UV Light (UVA, UVC)

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	± (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 U	/C light meter.	

UVA sensor spectrum



UVC sensor spectrum



Type K/J thermometer

Sensor	Resolution	Range	Accuracy
Туре			
Туре К	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	± (0.4 % + 1.8 °F)
Type J	0.1 ℃	-50.0 to 1200.0 ℃	± (0.4 % + 0.5 °C)
		-50.1 to -100.0 ℃	± (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)

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