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*







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.
	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.
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GENERAL SPECIFICATIONS

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	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						

Memory with		Maximum & Minimum reading			
Recall	with reca	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)				
	* Decimal	I point of SD card setting			
	* Auto po	wer OFF management			
		9			
Temperature	Automatic	c temp. compensation for the			
Compensation	type K/J thermometer.				
Advanced		Sound ON/OFF			
setting		mometer type to Type K or Type J			
	* Set tem	perature unit to °C or °F			
	* Set sam	pling time			
	* SD mem	nory card Format			
Data Hold		e display reading.			
Memory Recall		a & Minimum value.			
Sampling Time	Approx. 1				
	Арргох. 1	Second.			
of Display					
Data Output	RS 232/U	SB PC computer interface.			
	* Connec	t the optional RS232 cable			
	UPCB-0	2 will get the RS232 plug.			
	* Connec	t the optional USB cable			
	USB-01	will get the USB plug.			
Operating	0 to 50 °C				
Temperature					
Operating	Loss than	ı 85% R.H.			
	Less trial	10376 K.H.			
Humidity					
Power Supply		e or heavy duty DC 1.5 V battery			
		AA) x 6 PCs, or equivalent.			
	* ADC 9V	adapter input. (AC/DC power			
	adapte	r is optional).			
Power Current	Normal operation (w/o SD card save				
	data and LCD Backlight is OFF) :				
		. DC 6.5 mA.			
	When SD card save the data but and				
	LCD Backlight is OFF) :				
I	Approx. DC 30 mA.				
	ripprox	. DC 30 IIIA.			
		backlight on, the power			
	* Alf LCD				
	* Alf LCD	backlight on, the power nption will increase approx.			
Weight	* Af LCD consun	backlight on, the power nption will increase approx.			
Weight	* Af LCD consun 16 mA.	backlight on, the power nption will increase approx.			
Weight	* Af LCD consun 16 mA. Meter UVA	backlight on, the power nption will increase approx.			
Weight	* Af LCD consun 16 mA. Meter UVA probe	backlight on, the power nption will increase approx. 351 g. 100 g.			
Weight	* Af LCD consun 16 mA. Meter UVA probe UVC	backlight on, the power nption will increase approx.			
Weight	* Af LCD consun 16 mA. Meter UVA probe UVC probe	backlight on, the power nption will increase approx. 351 g. 100 g.			
Weight	* Af LCD consun 16 mA. Meter UVA probe UVC probe Meter	backlight on, the power nption will increase approx. 351 g. 100 g. 103 g. 177 x 68 x 45 mm			
Weight	* Af LCD consun 16 mA. Meter UVA probe UVC probe	backlight on, the power nption will increase approx. 351 g. 100 g.			
Weight	* Af LCD consun 16 mA. Meter UVA probe UVC probe Meter	backlight on, the power nption will increase approx. 351 g. 100 g. 103 g. 177 x 68 x 45 mm			
Weight	* Af LCD consun 16 mA. Meter UVA probe UVC probe Meter UVA	backlight on, the power nption will increase approx. 351 g. 100 g. 103 g. 177 x 68 x 45 mm Head 45 mm dia x 32 mm			
Weight	* Af LCD consun 16 mA. Meter UVA probe UVC probe Meter UVA probe	backlight on, the power aption will increase approx. 351 g. 100 g. 103 g. 177 x 68 x 45 mm Head			
Weight	* Af LCD consun 16 mA. Meter UVA probe UVC probe UVA probe UVA probe UVC probe UVC probe	backlight on, the power aption will increase approx. 351 g. 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			
Accessories	* Af LCD consun 16 mA. Meter UVA probe UVC probe UVC probe UVC probe * Instruction 18 market uva the state of	backlight on, the power aption will increase approx. 351 g. 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 tion manual			
	* Af LCD consun 16 mA. Meter UVA probe UVC probe UVC probe UVC probe * Instruct*	backlight on, the power aption will increase approx. 351 g.			
Accessories	* Af LCD consun 16 mA. Meter UVA probe UVC probe UVC probe * Instruc * UVA lig * UVC l	backlight on, the power aption will increase approx. 351 g. 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 tion manual			

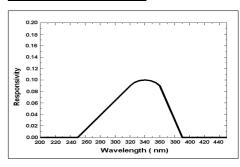
Optional	* SD Card (4 GB)		
Accessories	* Type K thermocouple probe.		
	TP-01, TO-02A, TP-03, TP-04, TP-05		
	* AC to DC 9V adapter.		
	* USB cable, USB-01.		
	* RS232 cable, UPCB-02.		
	* Data Acquisition software,SW-U801-WIN.		
	* Excel Data Acquisition software, SW-E802		

ELECTRICAL SPECIFICATIONS (23±5 ℃)

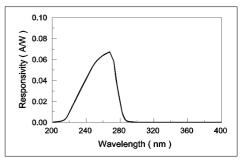
UV Light (UVA, UVC)

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 U	VA light meter.	
	* UVC Calibration is executed under	the UVC light &	
	and compare with the standard U	VC light meter.	

UVA sensor spectrum



UVC sensor spectrum



Type K/J thermometer

Sensor Type	Resolution	Range	Accuracy
Туре К	0.1 ℃	-50.0 to 1300.0 ℃ -50.1 to -100.0 ℃	± (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)

CHINA: ZL 2008 2 0189918.5 ZL 2008 2 0189917.0 Germany: Nr. 20 Appearance and specifications listed in this brochure are subject to change without notice. Germany: Nr. 20 2008 016 337.4 JAPAN: 3151214