SD card real time recorder, 4 light type selection

+ Type K/J thermometer

LIGHT METER

Model: LX-1138SD *ISO-9001, CE, IEC1010*









The Art of Measurement

LIGHT METER

Model: LX-1138SD

FEATURES

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*	3 ranges, 2,000/20,000/100,000 LUX.				
*	LUX & Foot Candle unit selection with default.				
	* 4 light type selection: Tungsten, Fluorescent, Day light, Mercury				
*	Auto range for light measurement.				
*	Spectrum of photo sensor meets C.I.E				
*	Light measurement with zero adjustment by push button.				
*	Separate probe, easy for operation of different				
	measurement environment.				
*	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 Specifications

Circuit	Custom on	tom one-chip of microprocessor LSI		
	circuit.			
Display	LCD size : 52 mm x 38 mm			
' '	LCD with green backlight (ON/OFF).			
Measurement/	Light: LUX, Feet candle (Ft-cd)			
Unit	Type K/J thermometer : °C or °F.			
Light	The exclusive photo diode & color			
Sensor	correction f	filter, spectrum designed to		
Structure	meet C. I. E.			
Zero Adj.	By push button.			
* Light	1			
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 G to 16 G.			
Advanced	* Set clock	* 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 the	pe 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.		the optional USB cable		

Operating	0 to 50 °C.	
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)	
Standard	* Instruction manual	1 PC
Accessories	 Light sensor with protective 	
Included	cover	1 PC
	* Soft carrying case (CA-05A)	1 PC
Optional	SD Card	
Accessories	Type K thermocouple probe.	
	AC to DC 9V adapter.	
	USB cable, USB-01.	
	RS232 cable, UPCB-02.	
	Data Acquisition software, SW-U801-WIN.	
	Hard carrying case, CA-06.	

Electrical Specifications (23±5 $^{\circ}$ C)

Light meter

Measurement	Range	Max. In-range	
		Display	
	2,000 LUX	0 - 1,999 LUX	
LUX	20,000 LUX	1,800 - 19,990 LUX	
@ auto range	100,000 LUX	18,000 - 99,900 LUX	
	200 Ft-cd	0 - 186.0 Ft-cd	
Feet-candle	2,000 Ft-cd	167.0 - 1,860.0 Ft-cd	
@ auto range	10,000 Ft-cd	1,670.0 - 9,290.7 Ft-cd	

Range	Resolution	Accuracy	
2,000 LUX	1 LUX		
20,000 LUX	10 LUX	±(4 %+2 dgt)	
100,000 LUX	100 LUX		
200 Ft-cd	0.1 Ft-cd		
2,000 Ft-cd	1 Ft-cd	±(4 % +2 Ft-cd)	
10,000 Ft-cd 10 Ft-cd ±(4 %+20 Ft-cd)			
Note : Accuracy tested by a standard parallel light			
tungsten lamp of 2856 K degree temperature.			

Type K/J thermometer

Sensor	Resolution	Range	Accuracy
Туре			
Type K	0.1 ℃	-50.0 to 1300.0 °C	± (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 °C	± (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)

 Above specification tests under the environment RF Field Strength less than 3 V/M & frequency less than 30 MHz only.