SD card real time recorder , 4 light type selection + Type K/J thermometer **LIGHT METER**

Model: LX-1138SD

ISO-9001, CE, IEC1010







LUTRON ELECTRONIC

The Art of Measurement

LIGHT METER

Model : LX-1138SD

FEATURES

*	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 one-chip of microprocessor LSI			
	circuit.	le-chip of microprocessor LSI		
Display	LCD size : 52 mm x 38 mm			
Display				
Measurement/		LCD with green backlight (ON/OFF).		
	Light : LUX, Feet candle (Ft-cd)			
Unit	Type K/J thermometer : °C or °F.			
Light	The exclusive photo diode & color			
Sensor	correction filter, spectrum designed to			
Structure	meet C. I.			
Zero Adj.	By push b	utton.		
* Light				
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 memo	ry card. 1 G to 16 G.		
Advanced	* Set cloc	k 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 temp	perature unit to °C or °F		
	* Set sam			
		lory card Format		
Temperature	Automatic temp. compensation for the			
Compensation	type 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.			
	USD-UT WIII GEL LIE USD Plug.			

Operating Temperature	0 to 50 °C.	
Operating Humidity	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 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 Accessories	Instruction manual Light sensor with protective	1 PC
Included	cover	1 PC
Optional Accessories	SD Card 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			
Туре К	0.1 °C	-50.0 to 1300.0 ℃	±(0.4 % + 0.5 ℃)
		-50.1 to -100.0 °C	±(0.4 % + 1 ℃)
	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 °C	-50.0 to 1200.0 °C	± (0.4 % + 0.5 ℃)
		-50.1 to -100.0 °C	±(0.4 % + 1 ℃)
	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.