SD card real time recorder, 4 light type selection Type K/J thermometer

LIGHT METER

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

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The Art of Measurement

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

LIGHT METER

Model: LX-1138SD <u>www.YaLAB.com.tw</u> 02-2389-0101

FEATURE

- * 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 SPECIFICATION

Circuit	Custom one-chip of microprocessor LSI circuit.			
Display	LCD size : 52 mm x 38 mm			
	LCD with green backlight (ON/OFF).			
Measurement/Unit	Light : LUX, Feet candle (Ft-cd)			
	Type K/J thermometer : °C or °F.			
Light Sensor Structure	The exclusive photo diode & color correction filter, spectrum designed to			
	meet C. I. E.			
Zero Adj. * <i>Light</i>	By push button.			
Datalogger Sampling	Auto	to 1 second to 3600 seconds		
Time Setting range	@ Sampling time can set to 1 second,but memory data n			
	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 setting	Set clock time (Year/Month/Date, 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			

Catanandination		
· Set sampling time		
· SD memory card Format		
Automatic temp. compensation for the		
type K/J thermometer.		
Freeze the display reading.		
Maximum & Minimum value.		
Approx. 1 second.		
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.		
0 to 50 °C.		
Less than 85% R.H.		
* 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).		
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.		
489 g/1.08 LB.		
177 x 68 x 45 mm (7.0 x 2.7x 1.9 inch)		
* Instruction manual1 PC		
· Light sensor with protective cover1 PC		
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 \pm 5 $^{\circ}$ C)

Light meter

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

Range	Resolution	Accuracy
2,000 LUX	1 LUX	±(4 %+2 dgt)
20,000 LUX	10 LUX	
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.		

Sensor Type	Resolution	Range	Accuracy
Туре К	0.1 °C	-50.0 to 1300.0 °C	± (0.4 % + 0.5 °C)
		-50.1 to -100.0 °C	± (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 °C	-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.

LX-1138SD+200421

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^{*} Appearance and specifications listed in this brochure are subject to change without notice.