

**200/2,000/20,000/100,000 Lux. 4 Light type
Real Time Data Logger, 16,000 Data, RS232**

LIGHT METER

Model : YK-2005LX

ISO-9001, CE, IEC1010



FEATURES

- * Real time data logger (record year, month, date, hour, minute, second).
- * 200/2,000/20,000/100,000 Lux.
- * Unit : Lux, Feet-candle.
- * 4 light type selection.
- * Sensor meet C.I.E. spectrum, 2 filters.
- * Max., Min., Data hold, zero adjust.
- * RS-232 computer interface
- * DC 1.5V (UM3, AA) x 4 PCs or DC 9V adapter in.
- * Size : 203 x 76 x 38 mm.



LUTRON ELECTRONIC

The Art of Measurement

200/2,000/20,000/100,000 Lux, LUX/Feet-candle
Real time data logger, 16000 Data logger no., RS232

LIGHT METER

Model : YK-2005LX

1. FEATURES

* Wide range, 200/2,000/20,000/100,000 LUX.
* LUX & Foot Candle unit selection.
* Spectrum of photo sensor meets C.I.E..
* 4 kinds selection lighting type (Tungsten, Fluorescent, Sodium or Mercury light).
* Zero adjustment by push button.
* Auto range or manual range can be defaulted.
* Real time data logger, build in clock (hour-min.-sec., year-month-date).
* Auto or manual data record, 16,000 Data logger no.
* Wide sampling time adjustment range from two seconds to 8 hours 59 minutes 59 seconds.
* RS232 computer interface.
* Can default auto power off or manual power off.
* Can default the display unit to LUX or Ft-cd.
* Super large LCD display with contrast adjustment for best viewing angle.
* Data hold, record max. and min. reading.
* Microcomputer circuit provides special function & offer high accuracy.
* Power by UM3 (1.5 V) x 4 batteries or DC 9V adapter.
* RS232 PC serial interface.
* Separate probe, easy for operation of different measurement environment.

Memory Recall	Maximum & Minimum value.
Sampling Time of display	Approx. 1 second.
Data Output	RS 232 PC serial interface.
Operating Temperature	0 to 50 °C.
Operating Humidity	Less than 80% R.H.
Power Supply	DC 1.5 V battery (UM3) x 4 PCs, (Heavy duty type). DC 9V adapter input. <i>@ AC/DC power adapter is optional.</i>
Power Current	Approx. DC 19.0 mA
Weight	406 g/ 0.89 LB.
Dimension	<i>Main instrument :</i> 203 x 76 x 38 mm <i>Light Sensor Probe :</i> 85x55x12 mm(3.2x2.2x0.5 inch).
Accessories Included	Instruction manual.....1 PC Light sensor with protective cover..... 1 PC Carrying case..... 1 PC
Optional Accessories	AC to DC 9V adapter. RS232 cable, UPCB-02. USB cable, USB-01. Data Acquisition software, SW-U801-WIN. Data Logger software, SW-DL2005.

2-1 General Specifications

Circuit	Custom one-chip of microprocessor LSI circuit.	
Display	LCD size : 58 mm x 34 mm.	
Measurement Unit	LUX, Feet candle (Ft-cd)	
Lighting Type Selection	Normal (Tungsten) light Fluorescent light Sodium light Mercury light	
Light Sensor Structure	The exclusive photo diode & color correction filter, spectrum designed to meet C. I. E.	
Zero Adj.	By push button.	
Sampling Time of Data Logger	Manual	Push the data logger button once will save data one time. <i>@ Set the sampling time to 0 second</i>
	Auto	2 sec to 8 hour 59 min. 59 sec.
Data Hold	Freeze the display reading.	
Power off	Auto shut off saves battery life or manual off by push button. <i>@ Can default auto power or manual power off.</i> <i>@ When default auto power function, power will off automatically after 10 min., if no button be pressed.</i>	

2-2 Electrical Specifications (23±5 °C)

Measurement	Range	Max. In-range Display
LUX	200 LUX	0 - 199.9 LUX
	2,000 LUX	180 - 1,999 LUX
	20,000 LUX	1,800 - 19,990 LUX
	100,000 LUX	18,000 - 100,000 LUX
Feet-candle	20 Ft-cd	0 - 18.6 Ft-cd
	200 Ft-cd	16.7 - 186.0 Ft-cd
	2,000 Ft-cd	167 - 1,860 Ft-cd
	10,000 Ft-cd	1,670 - 10,000 Ft-cd

Range	Resolution	Accuracy
200 LUX	0.1 LUX	± (4 % + 2 dgt)
2,000 LUX	1 LUX	
20,000 LUX (2000x10)	10 LUX	
100,000 LUX (1000x100)	100 LUX	
20 Ft-cd	0.01 Ft-cd	
200 Ft-cd	0.1 Ft-cd	
2,000 Ft-cd	1 Ft-cd	
10,000 Ft-cd (1000x10)	10 Ft-cd	
<i>Note : Accuracy tested by a standard parallel light tungsten lamp of 2856 K degree temperature.</i>		

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

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