

*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



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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

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 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	2 sec to 8 hour 59 min. 59 sec. <i>@ Auto datalogger</i>
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	

Note : Accuracy tested by a standard parallel light tungsten lamp of 2856 K degree temperature.

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

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