

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



Tehran, Tehransar



## 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.



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**The Art of Measurement**

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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

Tehran, Tehransar



## 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 ).<br>DC 9V adapter input.<br><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><br>203 x 76 x 38 mm<br><i>Light Sensor Probe :</i><br>85x55x12 mm(3.2x2.2x0.5 inch).                                      |
| Accessories Included     | Instruction manual.....1 PC<br>Light sensor with protective cover..... 1 PC<br>Carrying case..... 1 PC                                             |
| Optional Accessories     | AC to DC 9V adapter.<br>RS232 cable, UPCB-02.<br>USB cable, USB-01.<br>Data Acquisition software, SW-U801-WIN.<br>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<br>Fluorescent light<br>Sodium light<br>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.<br><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.<br><i>@ Can default auto power or manual power off.</i><br><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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