

+ TYPE K/J THERMOMETER, RS232, Data logger

# LIGHT METER

Model : LX-110

ISO-9001, CE, IEC1010



## FEATURES

- \* 0 to 20,000 Lux, 0 to 2,000 Ft-cd. auto range.
- \* Sensor meet C.I.E. spectrum.
- \* Light sensor with 2 filters, professional quality.
- \* Data hold, Record ( max., min. ).
- \* Separate probe, easy operation.
- \* RS-232 computer interface.
- \* Data logger, 1,600 data points.
- \* Type K Thermometer : -100 to 1300 °C, °C/°F.

- \* Type J Thermometer :  
-100 to 1200 °C, °C/°F.
- \* DC 9V battery ( 006P ) or  
DC 9V adapter in.



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***The Art of Measurement***

# LIGHT METER

Model : LX-110

## FEATURES

* 0 to 20,000 Lux, 0 to 2,000 Feet-candle ( Ft-cd ), professional light meter with auto range.
* Resolution : 1 LUX, 0.1 Ft-cd.
* Light sensor used the exclusive photo diode & color correction filter, spectrum meet C.I.E. photopic.
* Light sensor cosine correction factor meet standard.
* Separate Light Sensor allows user to measure the light at an optimum position.
* Light meter can default the display unit to LUX or Ft-cd with default.
* 2 in 1, Light meter + Thermometer.
* Thermometer can accept type K or type J Temp. probe with default.
* Thermometer can default the display unit to °C or °F with default.
* Meter can default auto power off or manual power off.
* 0.1 degree resolution for temperature measurement.
* Microcomputer circuit provides intelligent function and high accuracy.
* Manual and auto data logger, with flexible sampling time selection, can save max. 1,600 reading data.
* Records Maximum and Minimum readings with recall.
* Data hold function for freezing the desired value.
* Build in the input socket for DC 9V power adapter.
* RS232 PC serial interface.
* Few panel buttons, easy operation.
* Built-in low battery indicator.

## 2-1 GENERAL SPECIFICATIONS

Circuit	Custom one-chip of microprocessor LSI circuit.
Display	LCD size : 44 mm x 29 mm dual function LCD display.
Function	* Light meter * Thermometer (Type K/J).
Light Meter	<i>Range ( auto range ) :</i> 0 to 20,000 Lux 0 to 2,000 Feet-candle ( Ft-cd ), <i>Unit :</i> Lux, Feet-candle ( Ft-cd ). <i>Sensor :</i> The exclusive photo diode & color correction filter, spectrum meet C.I.E. Cosine correction factor meet standard. <i>Zero Adjustment :</i> External adjustment by pushing button.
Thermometer	Thermocouple : Type K, Type J. <i>Unit :</i> °C, °F <i>Resolution :</i> 0.1 degree. <i>Temperature Compensation</i> Automatic temp. compensation for the cold junction both type K/J thermometer <i>Linear Compensation</i> Linear Compensation for the full range.
Sampling Time of Data Logger	Manual Push the data logger button once will save data one time. * Set sampling time to 0 second. Auto 1, 2, 5, 10, 30, 60, 600, 1800, 3600 seconds.
Data Logger number	Max. 1,600-point Data logger
Thermometer Input Socket	Standard 2 pin thermocouple socket.

Over Indication	Show " - - - - - ".
Data Hold	Freeze the display reading.
Memory Recall	Maximum & Minimum value.
Sampling Time of display	Approx. 1 second.
Power off	Auto shut off to save battery life or manual off by push button.
Data Output	RS 232 PC serial interface.
Operating Temperature	0 to 50 °C.
Operating Humidity	Less than 80% R.H.
Power Supply	006P DC 9V battery ( Alkaline or Heavy duty type ). DC 9V adapter input. * AC/DC power adapter is optional.
Power Current	<i>Light meter :</i> Approx. DC 10 mA <i>Thermometer :</i> Approx. DC 6 mA
Weight	306 g/0.67 LB. * Include probe and batteries.
Dimension	Meter 135 x 60 x 33 mm. Probe 105 x 46 x 29 mm.
Accessories Included	Instruction manual.....1 PC
Optional Accessories	* Type K thermocouple probe. TP-01, TP-02A, TP-03, TP-04 * AC to DC 9V adapter. * RS232 cable, UPCB-02. * USB cable, USB-01 * Data Acquisition software, SW-U801-WIN. * Data Logger software, SW-DL2005. * Carrying case, CA-52A.

## ELECTRICAL SPECIFICATIONS (23±5 °C)

### Light meter

<i>Measuring Range</i> * auto range	LUX	0 to 20,000 LUX.
	Ft-cd	0 to 2,000 Ft-cd
<i>Resolution</i>	LUX	1 LUX
	Ft-cd	0.1 Ft-cd
<i>Accuracy</i>	± ( 5% rdg ± 8 dgt )	
<i>Note:</i>	Ft-cd : Feet candle	

### Type K/J Thermometer

Sensor Type	Resolution	Range	Accuracy
Type K	0.1 °C	-50.0 to 1300.0 °C	± ( 0.4 % + 0.8 °C )
		-50.1 to -199.9 °C	± ( 0.4 % + 1 °C )
Type J	0.1 °F	-58.0 to 2372.0 °F	± ( 0.4 % + 1.5 °F )
		-58.1 to -327.8 °F	± ( 0.4 % + 1.8 °F )
Type K	0.1 °C	-100.0 to 1100.0 °C	± ( 0.4 % + 0.8 °C )
		-50.1 to -199.9 °C	± ( 0.4 % + 1 °C )
Type J	0.1 °F	-58.0 to 2012.0 °F	± ( 0.4 % + 1.5 °F )
		-58.1 to -327.8 °F	± ( 0.4 % + 1.8 °F )

\* Accuracy value is specified for the meter only.  
\* Temp. probe ( Type K, TP-01 TP-02A, TP-03, TP-04 ) is the optional accessories.