



LIGHT INTENSITY METER

SERIES

VA8051



Users Manual



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1. Introduction

Thank you for purchasing the light intensity meter series from us. The product includes two type: Type A(Basic), Type B(Light sensor can be rotated in 270° to make measure more easy and fast). Please take a few minutes to browse through this user manual before you begin to operate the meter to ensure that you are fully familiarized with how best to operate the meter as accurately and safely as possible.

This meter is an illuminance measuring instrument. It is


normally used to measure illuminances, e.g. at workplaces.

1.1 Precautions safety measures

To get the best service from this meter, please read this user's manual carefully and observe the detailed safety precautions strictly.

1.1.1 During use

1. If the OL symbol will show on the LCD, it means the readings is outside the measuring range. Please keep to the permitted measuring range.
2. Never store the product together with solvents, acides or other aggressive substances.
3. When the battery voltage is under proper operation

requirement, the  symbol will show on the LCD and the battery need to be replaced with new.

1.1.2 Maintaining the product

- Do not measure at a high temperature, high humidity places.
- Keep the light sensor clean.

- To guarantee correct readings: Hold the instrument horizontally so that the light sensor is directed upwards.
- When not using the instrument for a long time, please remove the battery and avoid storing in high temperature and high humidity.

2. Features

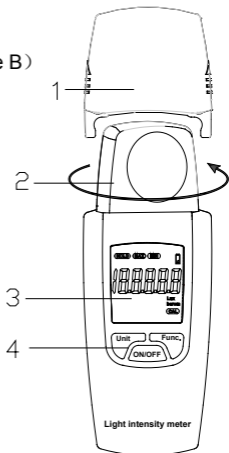
1. Display: 6 digits LCD Display
2. Parameters:
Lux (lm/m^2)
foot candle (lm/ft^2)
3. Resolution: 1 Lux (0...30000 Lux);
0.1 ftc (0...2788.0 ftc);
4. Range: 0...30000 Lux
0...2788.0 ftc
5. Accuracy: $\pm(4\% + 50 \text{ digits})$ to reference

6. Sample rate: 2 time /sec
7. auto power off: about 20 minutes
8. low battery indicator
9. Operating environment:
0°C ~ 50 °C(32°F ~122°F), 0 ~ 80%RH
10. Storage environment:
-20°C ~ 60°C(-4°F ~140°F), 0 ~ 80%RH
11. Dimension and Weight:
121(L)x60(W)x30(H)mm, about 180g
12. Accessories:
DC1.5V (AAA) x 3pcs
String x 1pcs
Plastic box x 1pcs
Users manual x 1pcs

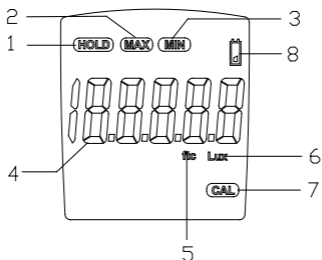
3. Names of parts

● Instrument Familiarization




1. Sensor cover
2. Light sensor
(270° adjustable only for type B)
3. LCD display
4. Function key






● **LCD Display**



The meaning of the symbols represented by the following table

Number of Order	Symbol	Functions
1		Indicating it is now in the data-holding mode
2		Indicating the display value being the maximum value(MAX)
3		Indicating the display value being the

		minimum value(MIN)
4		Measure values
5	ftc	parameter unit
6	Lux	parameter unit
7		Indication to the calibration mode
8		Indication low power of batteries. Batteries should be replaced.

4. Operation instruction

1. Please install new batteries on the meter .
2. Put the meter on the environment to be measured and hold it horizontally so that the light sensor is directed upwards.
3. Press the **ON/OFF** key to turn the power on.

4. After power on, press the **Unit** key to select the needed units.
 5. When the reading has been stable, read the illumination value.
- * If you still need more operations, please see the description of keys instruction.

5.Keys instruction

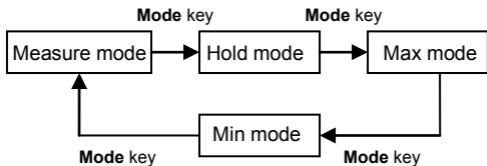
1. ON/OFF key

Press the key to turn the power ON and press the key once more to turn the power OFF.

2. Func. key

Press the key can select the state of MAX、MIN、HOLD.

The cycle of views shows as following figure:



- Hold mode: Reading are held.
- Max mode: Maximum values since the instrument

was last switched on or last reset.

- Min mode: Minimum values since the instrument was last switched on or last reset.

3. Unit key

1) Unit set

Press the key can change the parameter unit: lux, ftc.

2) Back light contrl

If press the key >2sec. the back light will be turned on, Press the key once >2sec. the light will be turned off. If the back light is not closed within 60 seconds, it will be turned off automatically.

3) Auto power off set

When the meter is powered on, it is under auto power off mode. The meter will power itself off after 20 minutes if no key operation.

Canceled auto power off function: press **Unit** key when power on until the LCD display **AP OFF**, then press the **ON/OFF** key to confirm the setting. And then the meter will be power off.

6. Reference table of illumination standard

Place	Illumination
- Office	
Conference Room, Living room	200 ~ 750
Administration	700 ~ 1,500
Typing	1000 ~ 2,000
- Factory	
Packaging, Access	150 ~ 300
Assembly line	300 ~ 750
Check	750 ~ 1,500
Electronic components assembly line	1,500 ~ 3,000
- Hotel	
Public places, Lavatory	100 ~ 200
Reception room	200 ~ 1,000
- Store	
Staircase, corridor	150 ~ 200
Presentation window, Packaging station	750 ~ 1,500
Shop window	1,500 ~ 3,000
- Hospital	

Ward, Warehouse	100 ~ 200
Medical examination room	300 ~ 750
Operating room, Emergency Room	750 ~ 1,500
- School	
Hall, Indoor stadium, Classroom	200 ~ 750
Laboratory, Library	500 ~ 1,500

7. Maintenance

1. CLEANING INSTRUCTIONS

The meter may be wiped down with a wet sponge or cloth using a mild water based detergent or anti-bacterial soap and rinsed under a gentle stream of cold water.

NOTE:


This unit is not designed for complete submersion or

washing in water.

2. BATTERY REPLACEMENT

Use the following procedure:

When the battery voltage drop below proper operation

range the  symbol will appear on the LCD display and the battery need to be replaced.

- Press the battery cover and towards arrowhead direction to open the battery cover.
- Replace the battery with three new 1.5V batteries (AAA).
- Replace the battery cover.



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