

Illuminance Meter

Instruction Manual

v1.4.1

1. Introduction

This instrument is a special instrument for measuring illuminance, which can be used in factories, lighting industry, planting industry, schools, offices, laboratories and street lamp construction.

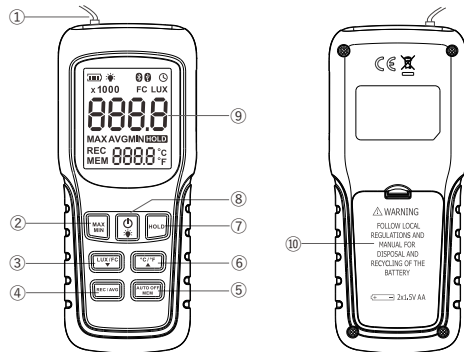
2. Features

- Wide measuring range
- High accuracy and fast response
- Split design, flexible and adjustable measuring distance
- Dual display of illuminance and ambient temperature

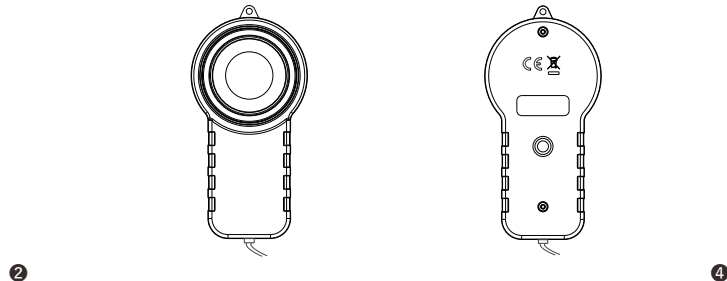
3. Product Schematic

3.1 Host

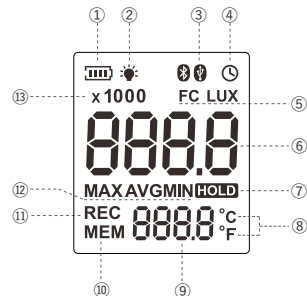
- ① Photosensitive probe cable
- ② Switch the maximum/minimum value measurement mode
- ③ Switch illuminance unit
- ④ Record data, average view
- ⑤ Automatic shutdown, data viewing
- ⑥ Switch temperature unit
- ⑦ Value lock
- ⑧ Power on and off, backlight
- ⑨ LCD
- ⑩ Battery compartment



3.2 Photosensitive Probe



3.3 LCD



- ① Battery level reminder
- ② Backlight on prompt
- ③ USB connection prompt
- ④ Auto power off prompt
- ⑤ Illuminance unit
- ⑥ Numerical display area
- ⑦ Value lock prompt
- ⑧ Temperature unit
- ⑨ Temperature/storage serial number display area
- ⑩ Data viewing prompt
- ⑪ Record data prompt
- ⑫ Maximum/minimum value measurement mode, average value view prompt
- ⑬ Multiple (x10, x100 or x1000)

4. Battery Installation Instructions

- (1) Insert the battery according to the positive and negative instructions inside the battery compartment.
- (2) After inserting the battery, close the battery cover.
- (3) When not using the instrument for a long time, be sure to remove the battery and place it properly.

5. Operating Instructions

5.1 Power On and Off

Press “☀” key, power on; long press “☀” key, power off.

5.2 Unit

- (1) **Illuminance:** In the measurement mode, press the “LUX/FC ▼” key to switch

the illuminance units Lux and Fc.

- (2) **Temperature:** In the measurement mode, press the “°C/°F ▲” key to switch the temperature unit °C and °F.

5.3 Backlight

Short press “☀” key, the instrument turns on or off the screen backlight.

5.4 Value Lock

In the general measurement mode, press the “HOLD” key, the instrument turns on or off the value lock function, and the reading is locked after turning it on.

5.5 Automatic Shut-down

Short press the “AUTO OFF MEM” key, the instrument turns on or off the automatic shutdown function. After turning on, the instrument shuts down without any key operation for about 5 minutes.

5.6 Maximum/Minimum Measurement Mode

Press the “MAX MIN” key to switch the maximum or minimum measurement mode. In this mode, the maximum or minimum displayed by the instrument will change according to the real-time measurement results.

5.7 Record Data

Short press the “REC/AVG” key, the instrument records the current illuminance value, and at the same time prompts “REC” and the storage serial number for about 1 second (the instrument can record up to 60 data).

Note: When the instrument is turned off, the recorded data will be cleared.

5.8 Average View

Long press the “REC/AVG” key to enter or exit the average view interface. In this

interface, you can view the average value of all recorded data and the number of data.

5.9 Data View

Long press the “AUTO OFF MEM” key, the instrument enters or exits the data viewing interface. After entering, you can pass “LUX/FC ▼” and “°C/°F ▲” keys switch to view all recorded data.

5.10 Key Beep

Short press the “MAX MIN” and “HOLD” keys at the same time to turn on (Beep On) or turn off (Beep OFF) the key buzzer sound.

6. Measurement Procedure

- (1) Remove the protective cover of the probe and turn on the instrument, and the instrument will enter the measurement state when it is turned on.
- (2) After the measured value is stable, read the illuminance value.
Note: The illuminance value is equal to the displayed value multiplied by the multiple (if the displayed value and multiple are 100.0Lux and x10 respectively, the illuminance value is equal to 1000Lux; if the multiple is not displayed, the illuminance value is equal to 100Lux).
- (3) After the measurement, please turn off the instrument and cover the probe protection cover.

7. Technical Parameters

Measurement parameters	Illuminance		Environment temperature
Measurement range	0~200000Lux; 0~20000Fc		-10~50°C; 14~140°F
Accurcay	±3%rdg±10dgts (≤10000Lux) ±4%rdg±10dgts (Other range)		±1.0°C
Resolution	0.1Lux		0.1°C
Sampling rate	2times/S		
Repeatability test	±2%		
Unit	Lux, Fc	°C, °F	
Operating environment	Temperature: -10~50°C; Humidity: 10~90%RH		
Storage environment	Temperature: -10~55°C; Humidity: 10~95%RH		
Power supply	2 AA 1.5V alkaline batteries/1.2V rechargeable batteries; 5V USB		
Dimensions	Host: 153*65*30mm; Photosensitive probe: 58*58*30mm		
Protection level	IP41		
Shell material	ABS		
weight	About 194g (Without battery)		