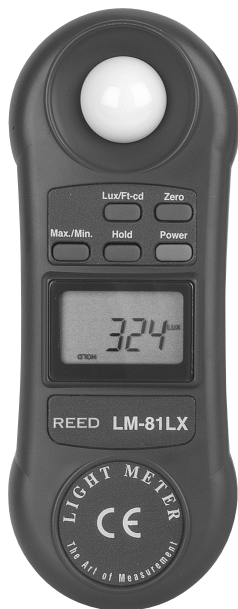


REED

Model LM-81LX

Illuminometer



Instruction Manual

www.reedinstruments.com

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Features

- Tiny bone shape with lightweight and small size case design are suitable for handling with one hand
- Wristlet design provides extra protection to the instrument especially for user one hand operation
- Exclusive photo diode and color correction filter light sensor, spectrum meets C.I.E. photopic
- Built-in microprocessor circuit assures excellent performance and accuracy
- Concise and compact buttons arrangement, easy operation
- Memorize the maximum and minimum value with recall
- Lux/Foot-candle selectable by pressing button on the front panel
- Zero button design makes light meter calibration
- Hold function to freeze the current reading value

For service on this or any other REED product or information on other REED products, contact REED Instruments at info@reedinstruments.com.

Specifications

General Specifications

Display	13 mm LCD display
Measurement	Light (Lux/Foot-candle)
Operating Humidity	Max. 80% RH.
Operating Temperature	0 to 50°C (32 to 122°F)
Over Input Display	Indication of “- - - -”
Power Supply	006P DC 9V battery (Heavy-duty type)
Power Consumption	Approx. DC 6.2 mA
Weight	160g (battery included)
Dimensions	156 H x 60 W x 33 D mm (6.14 x 2.36 x 1.29”)
Accessories	Optional carrying case also available (Model CA-52A)

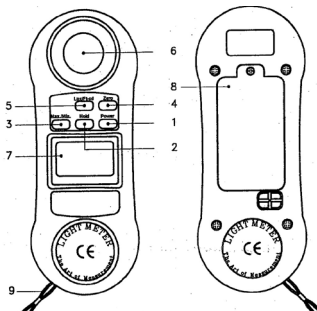
Electrical Specifications (23 ± 5°C)

Measurement	Range	Resolution	Accuracy
Lux	0 to 2,200 Lux	1 Lux	± 5% rdg ± 8 dgt
	1,800 to 20,000 Lux	10 Lux	
Foot-candle (Fc)	0 to 204.0 Fc	0.1 Fc	
	170 to 2,000 Fc	1 Fc	

Foot-candle = Ft-cd = Fc

Instrument Description

- 1 - Power Button
- 2 - Hold Button
- 3 - Max./Min. Button
- 4 - Zero Button
- 5 - Lux/Ft-cd button
- 6 - Light Sensor
- 7 - LCD display
- 8 - Battery Compartment / Cover
- 9 - Wristlet



Measuring Procedures

1. Power on the instrument by pressing the “Power Button” (#1, above).
2. Position the “Light Sensor” (#6, above) directly under the light source. Meanwhile the light reading value will be displayed on the LCD display.
3. Press the “Lux/Ft-cd Button” (#5, above) to select measuring unit “Lux” or “Ft-cd”

Zero Offset Adjustment of Light Function

- For best results you should zero the light sensor prior to use in a dark environment. To achieve this, place the light sensor end of the meter under a desktop or flat surface to block any light. Press the “Unit/Zero Button” (#4, page 5) setting the meter indication to zero.
- The zero point can drift due to environment temperatures, battery power, as well as various other reasons. It is recommended that the zero be checked frequently using the above procedure.

Additional Functions

Hold Function

Pressing the “Hold Button” (#2, above) will freeze the current value with a “HOLD” symbol on the display. Press again to release the hold function.

continued ...


Data Record Function

1. The Data Record function records & displays the maximum and minimum reading values. Start the Data Record function by pressing the “Max./Min. Button” (#3, page 4) once. There will be a “REC” symbol on the display.
2. With the REC symbol on the display:
 - (a) Press the “Max./Min. Button” (#3, page 4) once and the “Max” symbol along with the maximum value will appear on the display.
 - (b) Press the “Max./Min. Button” again, the “Min” symbol along with the minimum value will appear on the display.
 - (c) To exit the memory record function, press the “Max./Min. Button” continuously for at least 2 seconds. The display will revert to the current reading.
 - (d) To clear the Max./Min. value recorded by pressing the “Hold Button” (#2, page 4) once. The previously recorded Max./Min. value will be lost and then revert to the REC. function continuing to record.

Auto Power Off

In order to prolong the battery life, the instrument has “Auto Power Off” function. The meter will switch off automatically if no buttons are pressed for around 10 minutes.

Battery Replacement

1. When the left corner of the LCD display shows the low battery symbol “”, this indicates that replacement of the battery is then needed. *However specification measurements could still be taken for another few hours before the meter becomes inaccurate.*
2. Open the Battery Cover (#8, page 4) at the back of the meter and remove the battery.
3. Replace with a 9V battery (alkaline or heavy-duty type) and reinstall the cover.

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Notes

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