

1. Safety information

Carefully read the following information before starting the luxmeter.

Only use this unit in the manner specified in this manual, otherwise the equipment's protection may be damaged.

Ⓜ Environmental conditions

- ∅ Altitude up to 2000 metres
- Max. relative humidity 90%.
- ÷ Operating temperature 0 to 40 °C

Ⓜ Maintenance and cleaning

- ∅ Repairs and servicing not stated in this manual must be performed by qualified technicians.
- Regularly clean the casing with a dry cloth. Never use abrasives or solvents on this equipment.

Ⓜ Safety symbols



EMC approval

Only use specified replacement parts during repairs.

2. General description

It is recommended that this manual is read carefully before use, in order to obtain maximum benefit from the equipment. The luxmeter has been designed, manufactured and supplied under strict quality control conditions approved by certification organisations.

- Easy to use
- Automatic zero
- Automatic range

3. Specifications

Measurement range:

0.00 to 39.99/399.9/3999/39990 lx
0.000 to 3.999/39.99/399.9/3999 fc

Automatic selection / manual range

Resolution: 0.01 lx ~ 10 lx ; 0.001 fc ~ 1 fc

Accuracy: ±3%rdg ±5 digits

Temperature features: ±0.1%/°C

Response time: 0.5 secs.

Light detector: Photodiode Yes

Operating temp. / humidity:

0°C ~ 40°C(32°F ~ 104°F) , 0 ~ 80%RH

Storage temp. / humidity:

-10°C ~ 50°C (14°F ~ 122°F) , 0 ~ 70%RH

Out of range: "----" display

Power supply:

one 9V battery, 006P or IEC 6F22 or NEDA 1604

Battery life: approx. 170 hours (alkaline battery)

Dimensions:

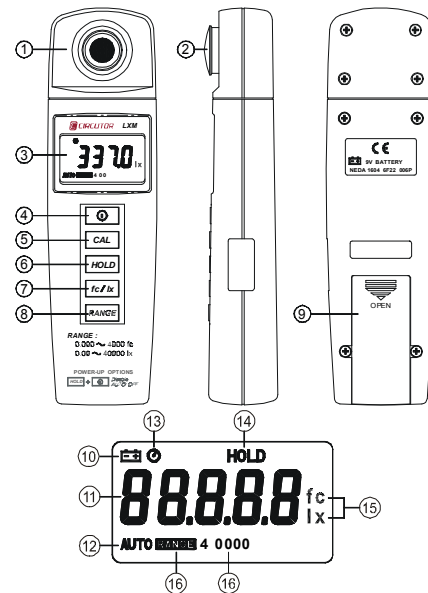
196(L) X 54(W) X 33(H) mm

7.7(L) X 2.1(W) X 1.3(H) inches

Weight: approx. 180g

Accessories: 9 V battery, instruction manual

4. Functions



- Light detection area
- Protective cover
- LCD display
- ON button
- CAL button: Rapid access to measuring mode

When in measuring mode, press CAL and zero automatically appears.

⑥ HOLD button:

The user can see the current read out and keep it on the LCD display by pressing "HOLD". Press again to release the function and store data. The user may press the button when reading is difficult, such as measuring in dark locations.

⑦ fc/lx selector button

⑧ Range selector button:

This button is used to select automatic and manual range. Manual range allows an arbitrary range between four possible ranges to be selected. If a fixed range is used, measurements are rapid and are easily read by the user.

Range setting is as follows:

Auto, 40, 400, 4000, 40000 lx

Auto, 4, 40, 400, 4000 fc

⑨ Battery compartment cover

⑩ Indicates low battery voltage

⑪ Measurement read out

⑫ Indicates automatic measurement range

⑬ Indicates luxmeter's automatic off mode

This unit has an automatic power off function to prevent the battery being used if the equipment has not been switched off. The luxmeter will automatically switch itself off if any key is not touched for 30 minutes.

⑭ Indicates data storage

⑮ Illuminance unit

⑯ Indicates the range

Note: 1fc=10,76lx

5. Operation

Press ON to start the unit. Note: the LCD display will show "CAL" if the light detection area is covered. When "CAL" appears, the measurer will automatically go into zero mode.

When automatic zero setting is completed "0.00" appears. After confirming the "0.00" display, remove the cover to start measurement.

After measuring, press ON again to switch off the equipment and cover the light detection area to protect it from direct light.

Note:

If "Err 1" appears, check that the cover has been properly replaced.

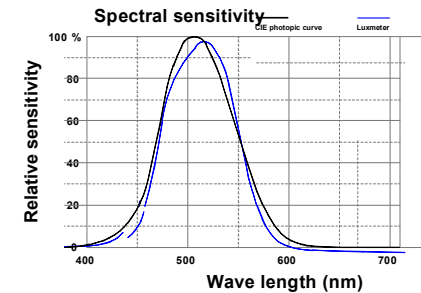
Automatic power off mode:

Press and hold down HOLD, the luxmeter comes on, release all buttons to disable the AUTO POWER OFF function. The symbol "Ⓜ" disappears from the LCD screen.

6. Changing batteries

When battery voltage drops below operating voltage the "Ⓜ" symbol appears on the LCD screen. In the event of this change the battery immediately.

7. Features of visible spectrum relative response



8. Care when handling

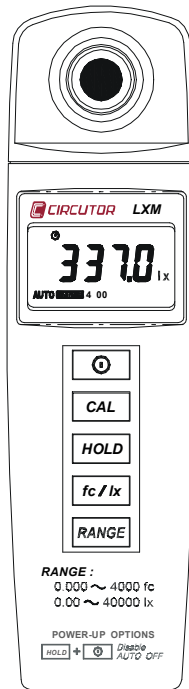
Take care when using the measurer. Do not drop or knock it against any hard object. Avoid using the equipment in a dusty or dirty atmosphere, saline areas or in corrosive vapours. Measurement accuracy will significantly decrease if there is dust or dirt on the light detection area. Wipe with a dry, soft cloth to clean the surface.



LXM LUXMETER

Instruction Manual

(M98126101-01-04A)



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