

Technische Daten

Messbereich	20,00 Lux; 200,0 Lux; 2.000 Lux; 20.000 Lux; 200.000 Lux
Genauigkeit	3% V(λ) Anpassung 2% Kosinuskorrektur
Sensor	Silizium Photodiode
Spektralbereich	320 nm...730 nm
LC-Display	3 1/2 Stellen mit analog Bargraph
Abtastrate	≥ 2 Messung/Sekunde
Norm	DIN 5032-7 Type B
Spannungsversorgung	1 x 6F22 9V
Arbeitstemperatur	-10 °C...50 °C
Max. relative Luftfeuchte	85% (nicht kondensierend)
Abmessungen (B x H x T)	89 mm x 190 mm x 42,5 mm
Gewicht	250 g (inkl. Batterien)

Technische Änderungen vorbehalten. 02.12

EU-Bestimmungen und Entsorgung

Das Gerät erfüllt alle erforderlichen Normen für den freien Warenverkehr innerhalb der EU.

Dieses Produkt ist ein Elektrogerät und muss nach der europäischen Richtlinie für Elektro- und Elektronik-Altgeräte getrennt gesammelt und entsorgt werden.

Weitere Sicherheits- und Zusatzhinweise unter:

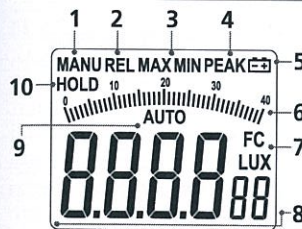
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! Read the operating instructions and the enclosed brochure „Guarantee and additional notices“ completely. Follow the instructions they contain. Safely keep these documents for future reference.

Function/application

The measuring instrument is used to measure illuminance in workplaces, offices, public buildings and in industry. The integrated photodiode determines the illuminance in lux and foot-candles. With the corresponding function, it is possible to carry out comparison and reference measurements as well as peak measurements for registering quick changes in light levels.



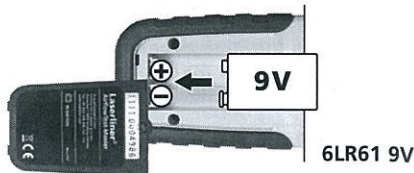
- 1 Manual measuring range
- 2 Relative measurement
- 3 MAX/MIN function
- 4 PEAK function
- 5 Low battery charge
- 6 Analogue scale
- 7 Units: Lux, foot-candle
- 8 Measured value
- 9 Automatic measuring range
- 10 Hold measured value



- 1 Light sensor
- 2 Manual/automatic measuring range
- 3 Hold measured value / zeroing function
- 4 Relative / peak measurement
- 5 Unit of measure
- 6 MAX/MIN function
- 7 ON/OFF / button tones
- 8 LC display

1 Inserting the batteries

Open battery compartment and insert batteries correspondingly to installation symbols. Ensure correct polarity.



2 ON/OFF



Automatic switch-off after 10 minutes.

3 Button tones

With the device switched on, briefly press and hold the „ON/OFF“ button to deactivate the button tones. Press the button again to reactivate the button tones.



4 Measuring range (manual/automatic)

After being switched on, the measuring instrument always starts set to the automatic measuring range. Press the „MAN/AUTO“ button to change over to manual measuring range. The measuring range, i.e. the decimal place (20.00 lux; 200.0 lux; 2,000 lux; 20,000 lux; 200,000 lux) changes with each additional press of the button. „OL“ will appear in the display when the measured value is outside the measuring range. Press the „MAN/AUTO“ button until the corresponding manual measuring range is set or until „AUTO“ appears in the display, indicating that the automatic measuring range is set again.



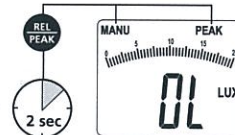
5 Relative measurement

After switching on the device, activate relative measurement by pressing the „REL/PEAK“ button. The value last displayed will be set as the reference value and it now shows the difference with respect to the set reference value. The relative measurement can be carried out both in the automatic as well as in the manual measuring range. This function is deactivated by pressing the „REL/PEAK“ button again.



6 Peak measurement

After switching on the device, activate peak measurement by pressing the „REL/PEAK“ button. This function increases the response of the sensor, thus enabling it to register quick changes in light levels. Peak measurement is only possible in the manual measuring range. Set the corresponding measuring range as described in Step 4. Press and hold the „REL/PEAK“ button to deactivate this function.



! The peak value remains visible on the display. Measured values lower than the peak value will not be displayed.

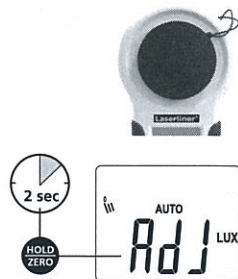
7 Units of measure

The measured values can be displayed in Lux and FC (foot-candles). Press the „UNIT“ button to change the unit of measure.



B Zeroing function

The zero point of the sensor curve can be adjusted for optimum measurement results at low illuminance levels. After switching on the device, fit the protective cap in order to completely cover the sensor. Press and hold the „HOLD/ZERO“ button to start the adjustment procedure. Wait until an acoustic signals sounds from the device to confirm successful adjustment. The value 0.00 lux appears on the display. Avoid strong sunlight while adjusting the device.



B MAX/MIN

The MAX/MIN function is used to show the highest and lowest measured value during a measurement. To deactivate the function, press and hold the „MAX/MIN“ button until the required function appears on the display or until „MAX“ or „MIN“ is no longer visible.



Reference values for illuminance in indoor spaces

Practical example	Luminous intensity in lux
Traffic areas, ancillary rooms	20
Corridors in buildings used by people	50
Sanitary facilities, machine rooms, staircases	100
Regularly occupied work stations within production facilities, canteens	200
Conference rooms, gyms	300
Offices, medical facilities (emergency unit)	500
Design and drawing rooms	750
Monitoring locations, assembly rooms, test stations	1000
Assembly rooms for small components	1500

Technical data

Measuring range	20.00 lux; 200.0 lux; 2,000 lux; 20,000 lux; 200,000 lux
Accuracy	3% V(λ) adaptation 2% cosine correction
Sensor	Silicon photodiode
Spectral range	320 nm...730 nm
LC display	3 1/2 positions with analogue bargraph
Sampling rate	≥ 2 measurements/second
Standard	DIN 5032-7 Type B
Voltage supply	1x 6F22 9V
Operating temperature	-10 °C ... 50 °C
Max. relative humidity	85% (no condensation)
Dimensions (W x H x D)	89 mm x 190 mm x 42.5 mm
Weight	250 g (including batteries)

Technical revisions reserved. 02.12

EU directives and disposal

This device complies with all necessary standards for the free movement of goods within the EU.

This product is an electric device and must be collected separately for disposal according to the European Directive on waste electrical and electronic equipment.

Further safety and supplementary notices at: www.laserliner.com/info

