
Lighting **measured** reliably.



MAVOBASE LUX

The precise illuminance meter

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Illuminance meter classified in accordance with DIN 5032-7



Due to its Class C accuracy, the MAVOBASE LUX is used primarily as an industrial measuring instrument for planning, installing, inspecting and monitoring lighting systems, as well as for assuring compliance with specified lighting conditions.

The instrument covers a large measuring range of 0.1 lx to 199,900 lx and does so with an accuracy level of $\pm 3\% \pm 1$ digit. $V(\lambda)$ matching deviation, which amounts to $f1' < 7.5\%$, is considerably better than the permissible error limit for Class C specified in the standards.

During operation, the instrument can always call up and display the minimum and maximum measured values and the calculated average value. The REL measurement functionality also allows artificial light to be measured under daylight and diffuse light conditions.

At GOSSEN, great emphasis is placed upon reliability by means of calibration. For verification purposes, a factory or DAkkS calibration certificate can be provided as an option. Depending on the instrument's conditions of use, a calibration interval of 12 to 24 months is recommended.

“Reliable measurement results of the illuminance form an essential basis in virtually any building or facility.”

Reliable illuminance testing

Precise, classified, intuitive

The MAVOBASE LUX stands out with its intuitive operation, intelligent product design, and extensive applications. It focuses on practical usage and reproducible measurement results in daily use.

- + Classified measurement of illuminance in lx or fc in accordance with Class C per DIN 5032-7
- + Wide measuring range – High initial sensitivity and a resolution of 0.1 lx or 0.01 fc up to high illuminance levels of 199,900 lx or 19,990 fc
- + PEAK functionality for MIN/MAX/AVG display
- + REL functionality for measurements in daylight conditions, for example
- + Backlit display for good readability, can be switched off for measurements in dark environments
- + Calibration capability – The GOSSEN calibration laboratory can prepare a factory or DAkkS calibration certificate as an option





Specifications

 MADE IN GERMANY

Maximum precision

Classified measurement of illuminance in lx or fc in accordance with Class C per DIN 5032-7, Appendix B of DIN EN 13032-1, and CIE 69.

Calibration capability

As an option, the accredited GOSSEN calibration laboratory can issue a factory or DAkkS calibration certificate for monitoring measuring equipment in accordance with DIN EN ISO 9001:2008.

Measurement functionality

PEAK & REL functionality for determining MIN/MAX/AVG values and for measurements under daylight and diffuse light conditions.

Precise measured values

Accuracy of $\pm 3\% \pm 1$ digit from the reading.

Cosine correction

The angle of incidence of the light is taken into account when measuring the illuminance. This relationship is taken into consideration by the receiver during evaluation.

V(λ) matching

The spectral sensitivity of the probe matches the spectral brightness sensitivity of the human eye $V(\lambda)$.

Wide measuring range

High initial sensitivity and a resolution of 0.1 lx or 0.01 fc up to high illuminance levels of 199,900 lx or 19,990 fc.

Convenient everyday use

Simple operation, easy to read display, and compact design. A high-quality plastic case with matching foam insert is available as an option for transport.

Technical data



Class C DIN 5032-7 /
EN 13032-1, Appendix B

Measuring functions

Illuminance	0.1 lx ... 199,900 lx / 0.01 fc ... 19,990 fc
Measuring ranges	4
Range switching	Auto
Sampling rate	2/s
Measuring method	Distance measurement
Measuring sensor	Silicon photodiode with V(λ) filter
Probe with tripod thread	Yes
Measurement cable	1.5 m, permanently connected
Product standard	DIN 5032-7 Class C / DIN EN 13032-1 Appendix B / ISO CIE 19476
Error limit – V(λ) matching (f1') typical	< 7.5%
Error limit – Cos φ (f2') typical	≤ 2%
Accuracy	± 3% rdg. ± 1 digit

Operation

Display	3 1/2 digits
Controls	6 keys
Display	Backlit graphic display
Software	Not implemented

Power supply

Battery	1 x 1.5 V mignon, type AA
Automatic battery check	Yes
Automatic shutdown	4 min. / continuous duty
Battery service life	Approx. 45 h alkali manganese primary battery
Continuous duty	USB port

Other

Operating temperature	0°C to 50°C
Dimensions	65 mm x 120 mm x 19 mm (meter) / 31 mm x 105 mm x 30 mm (probe)
Weight	200 g excl. battery
Scope of delivery	Battery, operating instructions, final test certificate
Article number	M532G (When ordering through Gossen Metrawatt, please use order number F532G.)

Subject to change without notice



 **GOSSEN** METRAWATT

 **CALIBRATIONHOUSE**

 **CAMILLE BAUER**

 **SEAWARD**

 **GMC** instruments academy

 **DRANETZ**

 **GOSSEN**

 **PROSYS**

 **RIGEL** MEDICAL

 **KURTH** ELECTRONIC

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