

MAVOBASE LUX



- Maximum reliability – Classified measurement of illuminance in lx or fc in accordance with Class C per DIN 5032-7, Appendix B of IEC 13032-1 and CIE 69.
- Precise measured values – Accuracy of + 3% + 1 digit from the reading
- 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.
- Calibration capability – As an option, the GOSSEN Light Lab can issue a factory or DAkkS calibration certificate for measuring equipment monitoring in accordance with DIN EN ISO 9001:2015.
- $V(\lambda)$ matching – The spectral sensitivity of the probe matches the spectral brightness sensitivity of the human eye $V(\lambda)$.
- Cosine correction – The angle of incidence of the light is taken into account when measuring the illuminance.
- PEAK and REL functions for more demanding applications such as workplace lighting

Applications

The MAVOBASE LUX luxmeter is designed for reliable measurement of daylight and all artificial light sources, including LEDs. It handles even the brightest daylight or spotlight illumination with ease.

The PEAK measuring function allows the display of MIN/MAX/AVG values during measurement; the REL function makes it possible to freeze an offset value for the pure measurement of the artificial light portion, which is required when measuring workplace lighting, for example.

Technical Data

Classification	Class C – DIN 5032-7	
Illuminance	0.1 lx ... 199.900 lx / 0.01 fc ... 19.990 fc	
Sampling rate	2 measurements per second	
Sensor technology	Silicon photodiode with UV-A filter, diffuser diameter: approx. 10 mm	
Reference plane	Diffuser surface	
Product standard	DIN 5032-7 Class C DIN EN 13032-1 Appendix B ISO CIE 19476	
V(λ) matching f1', typically	< 6%	
Cos-like rating f2, typically	< 3%	
Temperature dependence	> 0.1%, temperature compensated	
Accuracy	± 3% rdg. ± 1 digit	
Ambient conditions	Operating temperatures:	-10 °C ... +50 °C186
	Storage temperature:	+20 °C ... +70 °C
	Relative humidity:	45 % ... 75 %, no condensation allowed
	Elevation:	Max. 2000 m
Power supply	Continuous via USB or AA battery	
Mechanical design	Display unit:	Approx. 62 mm × 120 mm × 19 mm
	Measuring head:	Approx. 31 mm × 105 mm × 30 mm
	Weight:	Approx. 0.11 kg

Relevant Standards

ISO CIE 19476	Characterization of the performance of illuminance meters and luminance meters
DIN 5032-7	Photometry – Part 7: Classification of illuminance meters and luminance meters
DIN EN 13032-1 Appendix B	Light and lighting – Measurement and presentation of photometric data of lamps and luminaires – Part 1: Measurement and file format
EN 61326-1	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1: General requirements

Scope of Delivery

MAVOBASE LUX device
Operating instructions
AA battery
Final test certificate

Optional Accessories

Plastic carrying case (M520G)

Order Information

Type	Description	Article number
MAVOBASE LUX	Luxmeter	M532G <i>(When ordering through Gossen Metrawatt, please use order number F532G.)</i>



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