



## The compact luxmeter

guarantees the reliable measure for illuminance of daylight and artificial sources of light including LED.

In collaboration with leading camera specialists and lighting technicians of German TV stations, the measuring instrument was adapted to their needs one-handed operation, selectable measuring direction and display readable in the dark.

Features of course also to all users in the industrial environment during the planning and installation of lighting installations, their inspection and installation monitoring as well as compliance with specified lighting conditions.

## Specification

### 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.

### Broad measuring range –

High initial sensitivity and a resolution of 0.1 lx or 0.01 fc, right on up to large illuminance values of 199,900 lx or 19,990 fc.

### Precise Measured Values –

Accuracy amounts to  $\pm 3\% \pm 1$  digit of the display value.

### Calibration Capability –

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

### V( $\lambda$ ) matching –

The spectral sensitivity of the silicon photodiode is color corrected and corresponds to the spectral brightness sensitivity of the human eye V( $\lambda$ ).

### Cosine correction –

The luminosity of a flat measuring surface is proportional to the cosine of the incident angle of light. This relationship is taken into consideration by the receiver during evaluation.

### Non-volatile memory –

100 measured values can be saved and retrieved.

### Convenient everyday use –

Simple one-hand operation, easy to read display with backlight in HOLD mode, swivel-head, compact design.

# TECHNICAL DATA



## Model

## MAVOLUX COMPACT

Type	Precision Luxmeter
Classification	Class C DIN 5032-7 / EN 13032-1 appendix B
Item number	M502C

### Measuring functions

Illuminance	0.1 lx ... 199 900 lx 0.01 fc ... 19 990 fc
Measuring ranges	4
Measuring range selection	Automatic / Manual
Measuring rate	2 / s
Measuring sensor	Silicon photodiode with V (λ) filter
Measuring head	swivel-type
Measured value memory	100 measured values
Error limit - V (λ) adapted (f1') typical	< 7,5 %
Error limit - overall error typical	≤ 15 %
Accuracy	± 3 % of reading ± 1 digit

### Operation

Display	3 1/2 digit LCD
Back-Light	■
Operating elements	6 keys
One-hand operation	■

### Power supply

Battery	1.5 V Mignon, Typ AA
Automatic battery control	■
Automatic shutdown	4 min. / continuous operation
Battery service life	Approx. 45 h with alkaline manganese battery

### Miscellaneous

Operating temperature	0°C to 50°C
Dimensions	65 mm x 140 mm x 25 mm
Weight	105 g without battery
Certificates	Factory calibration certificate - H997B DAkkS calibration certificate - H997D
Delivery contents	Case, carrying strap, battery, operating instructions, calibration protocol