

Luxmeters, Footcandle Meters, Luminance Meters MAVOLUX 5032C/B, MAVO-MONITOR, MAVO-SPOT

Luxmeters / Footcandle Meters MAVOLUX 5032C/B

Features

- Illuminance can be measured in Lux or Footcandles
- Luminance can be measured in candles per square meter (cd/m^2) or Footlamberts (fL) with optional luminance attachments
- Wide measuring ranges
- High resolution
- Meets Standards DIN 5032/T7 and CIE no. 69
- Silicon photo diode with $V(\lambda)$ filter, colour corrected, spectral response adapted to that of the human eye
- Rugged instrument design, easy operation
- Leather ever-ready case included
- Calibration certificate (optional)



Applications

Digital Luxmeters and Footcandle meters for industry, trade, electricians, architects, institutes, inspection authorities and also photo and film studios – meet classifications of DIN 5032/T7 and CIE no. 69.

MAVOLUX 5032C:

Even very strong light (e.g. from car headlights) can be measured without any additional accessories.

MAVOLUX 5032B:

Guaranteed precision and high sensitivity, resolution 0.001, suitable for test and certification purposes according to the existing regulations. Even extremely low light can be accurately measured, e.g. emergency lighting.

Functions and Technical Data

Automatic / Manual Measuring Range Selection

Either Lux or footcandles can be selected as a measured quantity. The measuring range is matched automatically to the measured quantity. The current measuring range can be locked by pressing a key, or any one of four measuring ranges can be selected manually.

Hold Function

The current measurement value can be held at the display by pressing the data hold key.

MAX Function

The largest measurement value which occurs after this function has been activated is stored to memory in order to determine maximum illuminance or luminance.

Technical Data MAVOLUX 5032C

Meas. Quantity	Measuring Range				Resolution in lx	Resolution in fc			
		in Lux (lx)		in footcandle (fc)					
Illumination	I	0.1	...	199.9	0.01	...	19.99	0.1	0.01
	II	1	...	1 999	0.1	...	199.9	1	0.1
	III	10	...	19 990	1	...	1 999	10	1
	IV	100	...	199 900	10	...	19 990	100	10
		in Candela/m²			in Footlambert (fL)			cd/m²	in fL
Luminance (with attachment)	I	1	...	1 999	0.1	...	199.9	1	0.1
	II	10	...	19 990	1	...	1 999	10	1
	III	100	...	199 900	10	...	19 990	100	10
	IV	1000	...	1 999 000	100	...	199 900	1000	100

Technical Data MAVOLUX 5032B

Meas. Quantity	Measuring Range						Resolution in lx	Resolution in fc	
		in Lux (lx)			in footcandle (fc)				
Illumination	I	0.01	...	19.99	0.001	...	1.999	0.01	0.001
	II	0.1	...	199.9	0.01	...	19.99	0.1	0.01
	III	1	...	1 999	0.1	...	199.9	1	0.1
	IV	10	...	19 990	1	...	1 999	10	1
		in Candela/m²			in Footlambert (fL)			cd/m²	in fL
Luminance (with attachment)	I	0.1	...	199.9	0.01	...	19.99	0.1	0.01
	II	1	...	1 999	0.1	...	199.9	1	0.1
	III	10	...	19 990	1	...	1 999	10	1
	IV	100	...	199 900	10	...	19 990	100	10

Digital Luxmeter

MAVOLUX 5032C/B (Lux, footcandle)

Measuring rate approx. 2.5 measurements per second
 Light sensor Silicon photo diode with V(λ) filter, complies with accuracy class
 MAVOLUX 5032C: DIN 5032/7 Class C
 MAVOLUX 5032B: DIN 5032/7 Class B

Display

LCD Size 50 mm x 25 mm
 Display/Digit Height 7 segment characters / 13 mm
 3½ digits

Overload Display „OL.“ appears at display

Power Supply

Battery 1.5 V mignon alkaline-manganese cell per IEC LR 6, AA size
 Battery Life approx. 75 hours continuous operation, or approx. 2500 measurements
 Battery Test „+“ symbol is automatically displayed when battery voltage falls below approx. 1.0 V

Battery Saver Circuit

The instrument is automatically switched off if the measurement value remains unchanged for approximately 2 minutes, and if none of the operating elements are activated during this time.

Electromagnetic Compatibility EMC

Interference
 Emission EN 50081-1: 1992
 Interference
 Immunity EN 50082-1: 1992

Mechanical Design

Dimensions Basic instrument: 65 x 120 x 19 mm
 Sensor: 31 x 105 x 30 mm

Cable Between Instrument and Sensor
 MAVOLUX 5032C: coil cord, permanently attached
 MAVOLUX 5032B: plug-in coil cord can be extended

Cable Length 1.5 m

Weight approx. 200 g without battery

Applicable Regulations and Standards

DIN 5032/7	Light Measurement Classifications for illuminance and brightness measuring instruments
EN 50081-1	Electromagnetic Compatibility (EMC) generic standard for interference emission
EN 50082-1	Electromagnetic Compatibility (EMC) generic standard for interference immunity

Regulations and Standards for the Use of the Luxmeter (examples)

DIN 5034	Daylight in indoor rooms
DIN 5035	Illumination with artificial light
DIN 5037	Technical evaluation of automotive headlights
DIN 5044	Traffic illumination with street lights for transportation vehicles and systems
DIN 18032 Part 1	Gymnastics and sports
DIN 33400	Definition of the workplace
DIN 67526	Lighting for sports facilities

Standard Equipment

- Digital luxmeter and Footcandle meter
- Battery
- Instruction manual
- Leather ever-ready case for luxmeter including a leather quill for the sensor. Clip at rear for fastening to belt. A window in the ever-ready case, as well as an opening for the sensor in the quill, allow for outdoor use even under inclement weather conditions. The leather quills for the sensor and the luminance attachment (accessory) can be fastened to the ever-ready case with Velcro strips at both sides.

Optional Accessories

- Luminance attachment, candela per square meter (cd/m²) including leather case
- Luminance attachment, footlambert (fL) including leather case
- Calculator, calculating disc for exposure time/aperture combinations and additional values for photography, in plastic cover
- Calibration certificate (optional at additional price)
 Calibration reference:
 Scientific Standard Lamp, type Wi 41G of the PTB (Physikalisch Technische Bundesanstalt), Braunschweig.

Ordering Numbers

Description	Order No.
MAVOLUX 5032C Luxmeter and Footcandle meter according to DIN 5032/T7 Class C including ever-ready case	M491A
MAVOLUX 5032B Luxmeter and Footcandle meter according to DIN 5032/T7 Class B including ever-ready case	M492A
Luminance attachment, cd/m ² , with case	5908V0120
Luminance attachment, fL, with case	Z481B
Calculator in protection cover	5999V0380
Calibration certificate for MAVOLUX 5032C/B (optional at additional price)	H997B