

MAVOBASE UVA



- Precise measured values – Accuracy of $\pm 10\%$, ± 1 digit from the reading.
- Maximum reliability – Long-term measurement stability of UV-A irradiance in accordance with DIN EN ISO 3059/ASTM E2297-15.
- Wide measuring range – High initial sensitivity and resolution of $0.1 \mu\text{W}/\text{cm}^2$ to $99,990 \mu\text{W}/\text{cm}^2$.
- PEAK and FILT functions for enhanced measured value representations.
- Flexible display units – Option for switching between $\mu\text{W}/\text{cm}^2$ and W/m^2 .
- Optimum readability – Backlit display for comfortable use even in poor lighting conditions.
- 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.
- Convenient everyday use – Simple operation, compact design, and sturdy housing for daily use.

Application

The MAVOBASE UVA irradiance meter is designed to reliably measure UV-A irradiance. The measured values can be displayed at the push of a button either in $\mu\text{W}/\text{cm}^2$ or W/m^2 .

The PEAK function allows MIN/MAX/AVG values to be displayed during the measurement. The FILT function averages measured value fluctuations and therefore provides a more stable measured value display.

Technical Data

Classification	0.1 $\mu\text{W}/\text{cm}^2$... 99,990 $\mu\text{W}/\text{cm}^2$	
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 EN ISO 3059/ASTM E2297-15	
Temperature dependence	< 0.1%, temperature compensated	
Accuracy	$\pm 10\%$ of reading ± 1 digit	
Ambient conditions	Operating temperature:	-10 °C ... +50 °C
	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 $\times$ 120 mm $\times$ 19 mm
	Measuring head:	Approx. 103 mm $\times$ 31 mm $\times$ 36 mm
	Weight:	Approx. 0.11 kg

Relevant Standards

DIN EN ISO 3059	Non-destructive testing – Penetrant testing and magnetic particle testing – Viewing conditions
ASTM E2297-15	Standard Guide for Use of UV-A and Visible Light Sources and Meters used in the Liquid Penetrant and Magnetic Particle Methods
DIN EN IEC 61326-1	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1: General requirements

Scope of Delivery

- 1 x MAVOBASE UVA meter
- 1 x set of operating instructions
- 1 x AA battery
- 1 x final test certificate

Optional Accessories

Plastic carrying case (M520G)

Order Information

Type	Description	Article number
MAVOBASE UVA	Irradiance meter	M533G <i>(When ordering through Gossen Metrawatt, please use order number F533G.)</i>



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Article number: 16015GB

Revision: 1.0/09.26

Prepared in German • Subject to change, errors excepted

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