



HI1 and SI1

for short time UV intensity measurements

Features

- Measurement of UV intensity in mW/cm^2 respectively W/m^2
- Calibration acc. to DIN EN ISO / IEC 17025; traceable to PTB or NIST

Advantages

- Calibration saved in sensor plug
- Ease of use
- Compact shape
- Only one handheld needed for various sensors

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The UV sensors type SI1 are available for the usual wavelength ranges and for UV LED measurements. The clever thing about these sensors is that the calibration is stored in the connector. Thus, several SI1 sensors can be used one after the other if used in combination with a handheld.

Application

The UV sensor SI1 is a robust UV measuring instrument which measures and displays in combination with the handheld unit HI1 the intensity of UV lamps for short-time measurements.

A typical application is the manual control of lamp ageing, even in places that are difficult to access.

Operation


The UV sensor SI1 is plugged into the handheld HI1 and the UV readings are shown on the display. The handheld HI1 includes max. and min. value storage.

Delivery

The measuring equipment can be put together as needed. Different UV sensors of the type SI1 can be connected to the handheld HI1 one after the other.



Technical data

Handheld HI1	
System accuracy	± 0.1 % of measured values ± 3 digit
Measuring rate	2.5 mops
LC display	7 segments: measured value 5 char, 15 mm 16 segments: units 2 char, 9 mm
Power supply	3 x AA alkaline batteries, ≤ 5 mA
Dimensions	approx. 125 x 80 x 40 mm
Weight	approx. 270 g
UV sensors SI1	
Spectral measuring ranges	
UV full	250 – 410 nm
UV-LED	265 – 495 nm *
UV-A	315 – 410 nm
UV-B	280 – 315 nm
UV-C	230 – 280 nm
UV-C LP	230 – 280 nm *(for LEDs 320 – 405 nm)
Max. intensities for	
UV medium pressure lamps	2.000 mW/cm ²
UV-LEDs	20 W/m ²
UV low pressure lamps	20 / 200 mW/cm ²
Operation	0...+50 °C
Accuracy	± 5%
Protection class	IP20
Dimensions (LxWxH)	approx. Ø 36 x 17 mm, measuring cell size: approx. 10 mm
Weight	approx. 100 g
Options	 Plastic case for one handheld HI1 and for up to three UV sensors SI1