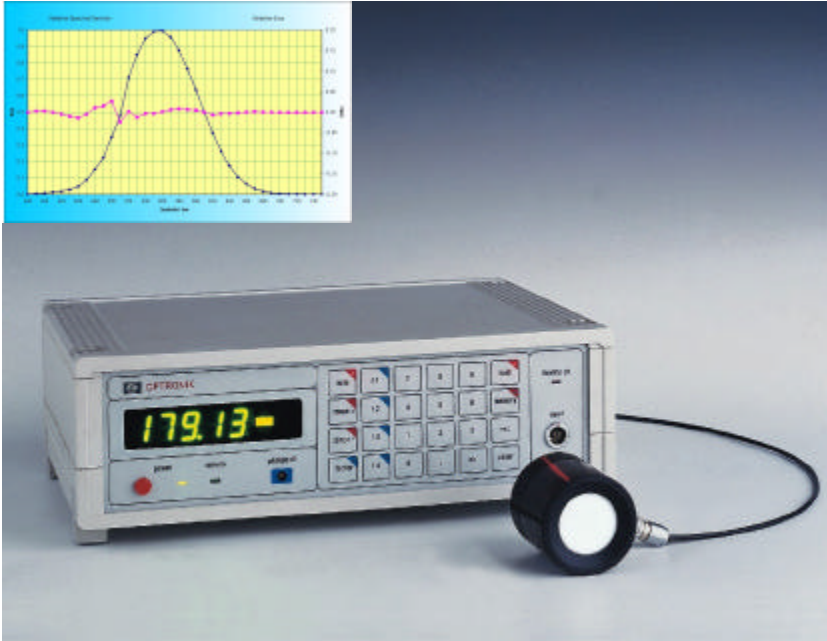


# Luxmeter digilux 9500

## Illuminance Measurement



The OPTRONIK digilux 9500 is a precision luxmeter that provides for convenient measurement of illuminance in laboratory or on the production floor. Incorporating the latest amplifier and microprocessor technology this instrument offers operating and display functions never seen in its class.

The precision photometer head, with  $V(\lambda)$  filter, is thermo-stabilized. It can be delivered in different versions, either with OPTRONIK test report or optionally with PTB (Federal Institute for Physics and Technology) test report.

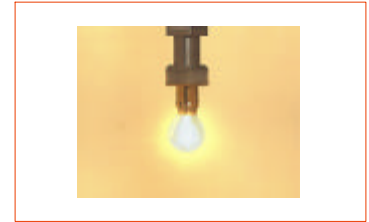
The digilux 9500 is available with 6, 7 or 8 decade graded measuring ranges. The instrument offers a resolution of up to 0.0001 lx in relation to a maximal value of 2000 klx. The range selection can be made manually or automatically.

The measured value can be assessed with a free-selectable factor. Up to 2000 measured values can be stored (option). Via serial interface and OPTRONIK software you can transfer measured data to a PC (by serial interface RS232) to other software programs for storing or further statistical analysis. Additionally, you have the ability to call up the stored values via the front-panel keyboard.

As an additional feature (option), the digilux 9500 has four digital comparators with relay outputs, which can be programmed to control different switching operators depending on the illuminance being measured. Maintenance and calibration are simple and accurately performed, as all calibration parameters are adjusted without the need to open the instrument's housing.

Other available options include:

- automatic light control for controlling street lighting systems
- analog output



- Precision measurement of illuminance according to DIN 5032
- Production floor
- Laboratory
- RS 232 interface
- Software DigiControl for easy evaluation, storing, of measured values, export function in Excel compatible

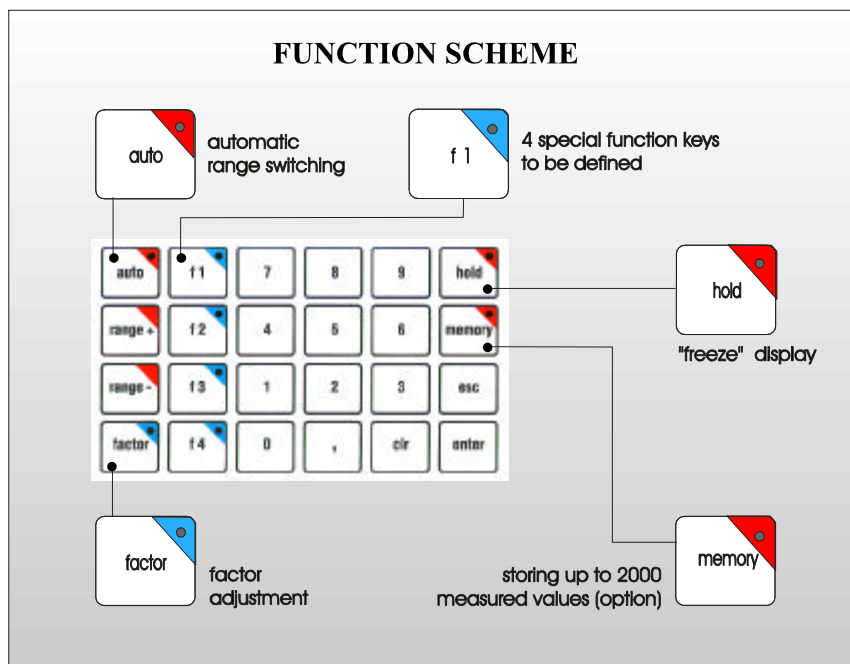
### Options:

- Measurement of illuminance and luminous flux (Digilumen 9500) for application with integrating sphere.
- Rechargeable battery operation.
- Automatic light control for controlling street lighting systems.
- Analog output.



# Luxmeter digilux 9500

## FUNCTION SCHEME



Option Digilumen to measure luminous flux with integrating sphere

Photo cell Ø 30 mm



## TECHNICAL DATA

<b>Measuring ranges</b>	6...8, decade graded, automatic or manual range selection
<b>Highest range</b>	200 klx, optionally 2 Mlx
<b>Smallest range</b>	2 lx, resolution 0.0001 lx, optionally 200 mlx, resolution 0.01 mlx
<b>Display</b>	3½ digit or 4½ digit, yellow-green seven-segment LED display, easy to read, character height: 14 mm
<b>Attenuator</b>	adjustable factor: 0.001...99.99
<b>Mesasuring speed</b>	5 measurements / sec., automatic average value calculation for alternating light.
<b>Interfaces</b>	serial interface RS-232, relay outputs
<b>Power supply</b>	international wide range power supply
<b>Dimension (WxHxD)</b>	80...270 V, 40...400 Hz without swiching
<b>Weight</b>	291 x 88 x 199 mm
	2.85 kg

## PHOTOMETER HEADS

### Class L according to DIN 5032, CIE no. 69

- Precision silicon photo cell
- V (λ) - Adaptation
- f1 < 1.5 %
- Aperture Ø 30 mm
- Thermostatic stabilization

### Class A according to DIN 5032, CIE no. 69

- Precision silicon photo cell
- V (λ) - Adaptation
- f1 < 3 %
- Aperture Ø 30 mm
- Thermostatic stabilization

### Class A according to DIN 5032, CIE no. 69

- Precision silicon photo cell
- V (λ) - Adaptation
- f1 < 3 %
- Aperture Ø 6 mm
- Cosine correction