

Electronic measurement  
physical and chemical values

Light measuring  
technology  
**testo 545**

## Luxmeter with location management and mean calculation



Measuring light in the  
workplace



Mean calculation in a  
repro studio



Light profile measurement in  
a museum



Integrated location  
management

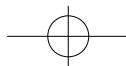
**In order to have good light quality**, the light intensity in workplaces, hospitals, offices or schools has to fulfill specified minimum values. These values can be measured efficiently and easily using testo 545 and can be printed on location on the infrared printer.

### Mean calculation

The mean value can be calculated at the touch of a button from measured lux values (max. 99). This is particularly helpful when, for example, the mean light intensity on a table surface is to be measured.

### Location management

Using Windows® software (accessory) locations can be saved in the hand-held instrument. The required location is selected on location via the keypad. All of the measured data is allocated to this location during saving. **Makes your work easier** in the field, therefore **indispensable**.



## Luxmeter with location management and mean calculation

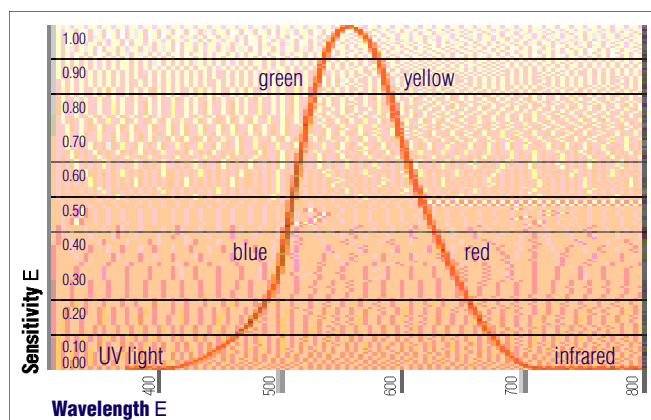


### The light parameter

Approximately 80 % of all sensations are of an optical nature and therefore experienced via the eye. Sufficient, homogeneous light is imperative for the protection of the eyes. The necessary measurements can be carried out accurately, easily and conveniently using the **testo 545** luxmeter.

#### Adapting to the human eye

Our eyes are much more sensitive to yellow/green light than to blue and red light. This must be taken into consideration by a luxmeter. A special optical filter has this task in **testo 545**. It is only with this type of filter that it is possible to carry out accurate measurements on different light sources which may vary in colour e.g. mercury arc or sodium vapour lamps etc.



### Technical data

**Sensor:** Silicon photodiode

**Measuring range:** 0 to 100,000 Lux  
0 to 10,000 fc

**Accuracy:** To DIN 5032, Part 6  
f<sub>1</sub> = 8 %  
f<sub>1</sub> = V (I) adaptation  
f<sub>2</sub> = 5 %  
f<sub>2</sub> = cos like rating

**Resolution:** 0 to 32,000 Lux 1 Lux  
0 to 100,000 Lux 10 Lux  
0 to 3,200 fc 0.1 fc  
0 to 10,000 fc 1 fc

**Display:** 2 line display  
Line 1: Reading  
Line 2: Location

**Battery lifetime:** > 45 h

**Battery check:** Automatically  
in 4 stages

**Operating temperature:** 0 to +50 °C

**Storage temperature:** -20 to +70 °C

**Dimensions:** 220 x 68 x 50 (Instrument)

**Weight:** 255 g

**Warranty:** 2 years

#### Other features:

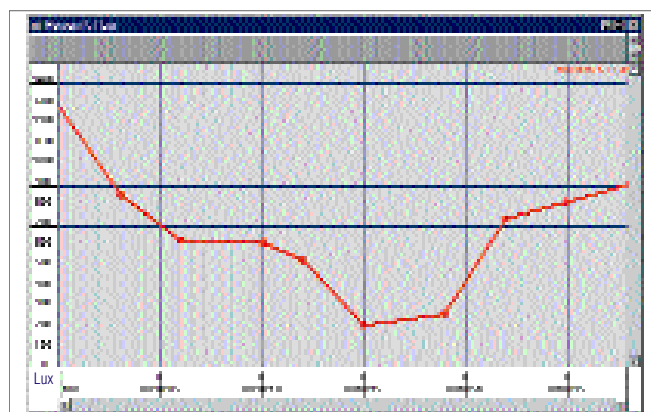
- HOLD/MAX/MIN values
- Timed mean calculation
- Multi-point mean calculation of 99 measurement points – log contents (memory or printout):
  - Separate values
  - MAX/MIN value
  - Mean
- Multi-point separate saving of up to 99 logs
- Up to 99 locations can be selected
- Logger function (3000 readings)
- Printout of all functions and memory contents on log printer -Optional

### Mean calculation

Two mean calculation functions, timed and multi-point, are available to the user. The mean values can be saved in the memory and printed.

### Convenient data analysis

Using Comfort software, available in the Light or Professional version, **testo 545** can be read out and a location list can be saved. Light intensity values which are saved separately can be connected to form a curve using Professional software. This "Light profile" provides information on the uniformity of the lighting on e.g. repro tables, paintings, in halls etc.



### Location management

A special feature of **testo 545** which makes your work easier is its location management function. Readings (up to 99) can be allocated to the locations thus ensuring clear identification and documentation.

### You can order by fax, post or telephone

Simply copy this page, enter the quantities required and return to us by fax or post. Don't forget to include your name and address!

Qty.	testo 545 measuring instrument and accessories	Part no.
	<b>testo 545 incl. probe, batteries, instruction manual and calibration protocol</b>	0560.0545
	<b>TopSafe</b> (indestructible protective case) <b>incl. bench stand and belt clip</b> , to protect the measuring instrument against impact, dirt...	0516.0441
	<b>Testo log printer</b> , prints measured data with date and time on location	0554.0545
	<b>Comfort software "Light"</b> incl. data management, analysis and graphics function	0554.0273
	<b>Comfort software "Professional"</b> like "Light" but with convenient data analysis (e.g. light profile, trend function, formula editor...)	0554.0274
	<b>Transport case</b> , stores measuring instrument, TopSafe, probe and Testo log printer	0516.3250
	<b>ISO calibration certificate</b> , calibration point: 1000 Lux	0520.0010

Subject to change without notice.

Name

Address

Company

Department

Date, Signature

