



testo 545

## Light meter/logger 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

fc

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To insure proper lighting, the **testo 545 Light Meter** accurately measures and quickly stores light values.

## Mean calculation

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

## Data/Location management

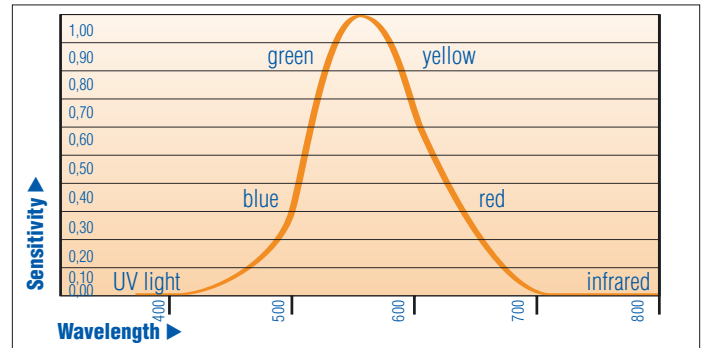
Data and locations can be entered and saved on-site with the **testo 545**. Using Comfort software (accessory), measurements can be downloaded and analyzed easily and conveniently.

## The light parameter

Approximately 80 % of all sensations are experienced by the eye. Light is required for this purpose. Accurately measuring this light is easy and convenient using the **testo 545**.

## Adapting to the human eye

Our eyes are much more sensitive to yellow/green light than to blue and red light. A special optical filter in the **testo 545** allows the instrument to reconstruct the response of the human eye. A special photo diode cell converts this light into an electronic signal which is then displayed.



## Technical data

<b>Sensor:</b>	Silicon photodiode	
<b>Measuring range:</b>	0 to 10,000 fc	0 to 100,000 lux
<b>Accuracy:</b>	To DIN 5032, Part 6 f <sub>1</sub> = 8 % f <sub>1</sub> = V (λ) adaptation f <sub>2</sub> = 5 % f <sub>2</sub> = cos like rating	
<b>Resolution:</b>	0 to 3,200 fc	0.1 fc
	0 to 10,000 fc	1 fc
	0 to 32,000 Lux	1 Lux
	0 to 100,000 Lux	10 Lux
<b>Display:</b>	2 line display Line 1: Reading Line 2: Location	
<b>Battery lifetime:</b>	9 V IEC 6F22 > 45 h AI-Mn	
<b>Battery check:</b>	Automatically in 4 stages	
<b>Operating temperature:</b>	32 to +120 °F	
<b>Storage temperature:</b>	-4 to +160 °F	
<b>Dimensions:</b>	9" x 3" x 2" (Instrument)	
<b>Weight:</b>	18 ozs. (incl. packaging)	
<b>Warranty:</b>	2 years	

### Other features:

- HOLD/MAX/MIN values
- Timed mean calculation
- Multi-point mean calculation of 99 measurement points - logs contents (memory or printout):
  - Separate values
  - MAX/MIN value
  - Mean
- Up to 99 locations can be selected
- Logger function stores to 3,000 readings
- Prints functions as well as memory contents on Testo Infrared Printer

## Mean calculation

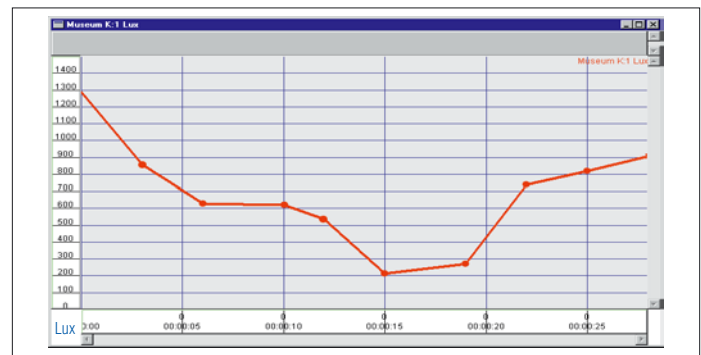
Two mean calculation functions, timed and multi-point, are available to the user. The mean values can be saved in the memory and printed.

## Location management

A special feature of **testo 545** is its location management function. Up to 99 readings can be allocated to the locations which ensures clear identification and documentation.

## Convenient data analysis

By using Comfort software, the information from **testo 545** can be downloaded and a location list can be saved. Separately saved light intensity values can be connected to form a curve using Professional software. This "light profile" provides information on the uniformity of the lighting on i.e. repro tables, paintings, in halls etc..



## Ordering Information:

Qty.	testo 545 instrument and accessories	Part no.
	<b>testo 545 incl. probe, batteries, instruction manual and calibration certification</b>	0560.0545
	<b>TopSafe Protective Case incl. bench stand and belt clip.</b> to protect the instrument against impact, dirt...	0516.0441
	<b>Case,</b> for secure storage of instrument	0516.0191
	<b>Recharger for printer</b> (with 4 standard rech. batt.) Rechargeable batteries are recharged externally	0554.0110
	<b>Spare thermal paper</b> for printer (6 rolls)	0554.0569
	<b>Enhanced thermal paper</b> for printer (6 rolls) Print outs legible for up to 10 years	0554.0568
	<b>Testo infrared printer,</b> prints measured data with date and time on location	0554.0545
	<b>Comfort software</b> incl. data base, analysis and graphics function	0554.0273
	<b>ComSoft 3</b> Software for data management incl. data base, analysis and graphics function, data analysis, and trend curve	0554.0830
	<b>RS232 cable,</b> connects instrument to PC (4 ft) for data transfer	0409.0178
	<b>Transport case,</b> (plastic) for instrument, probes, accessories, now larger for safe and orderly storage	0516.0445
	<b>NIST calibration certification</b>	0520.0010

Information and prices subject to change without notice.