

# testo

Work **SMARTER**, Not Harder

Light measurement  
technology

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

|             |      |
|-------------|------|
| M.05 N.0017 | MEMO |
| MEM -       | MEMO |
| fc          |      |
| 890         |      |
| Museum      |      |

Integrated location management

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

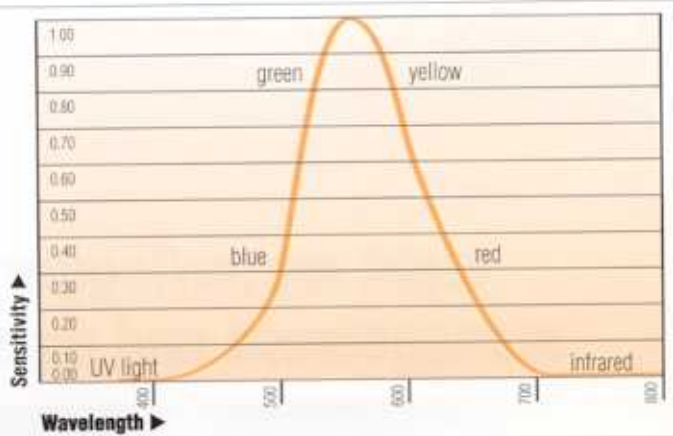
Data and locations can be entered and saved on-site with the testo 545. Using Comfort software (accessory), measurements can be downloaded and analyzed easily and conveniently.

## 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<br>0 to 100,000 Lux   |                                   |
| <b>Accuracy:</b>              | To DIN 5032, Part 6<br>fs = 8 %<br>fr = V (λ) adaptation<br>ft = 5 %<br>fb = cos like rating |                                   |
| <b>Resolution:</b>            | 0 to 3,200 fc<br>0 to 10,000 fc<br>0 to 32,000 Lux<br>0 to 100,000 Lux                       | 0.1 fc<br>1 fc<br>1 Lux<br>10 Lux |
| <b>Display:</b>               | 2 line display<br>Line 1: Reading<br>Line 2: Location  |                                   |
| <b>Battery lifetime:</b>      | 9 V IEC 6F22<br>> 45 h Al-Mn   |                                   |
| <b>Battery check:</b>         | Automatically<br>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:

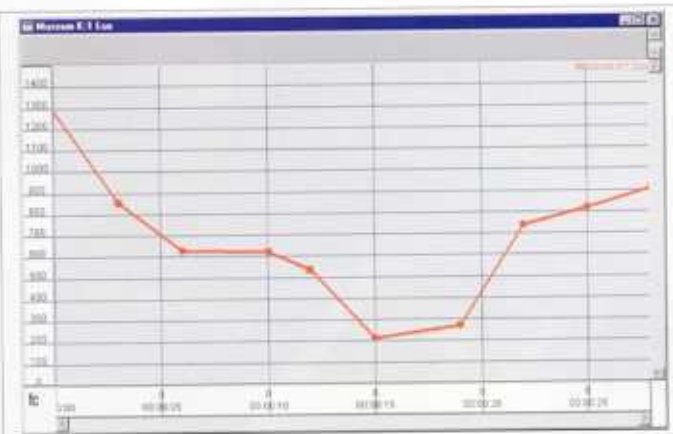
- HOLD/MAX/MIN values
- Timed mean calculation
- Multi-point mean calculation of 99 measurement points - logs contents (memory or printout)
- Separate values
- MAX/MIN value
- Mean
- Up to 99 locations can be selected
- Logger function stores to 3,000 readings
- Prints functions as well as memory contents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

## 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..



## 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.

## 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><br>to protect the instrument against impact, dirt... | 0516.0441 |
|      | <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>Professional comfort software</b> with data base analysis and graphics function, data analysis and trend curve   | 0554.0274 |
|      | <b>Transport case</b> , stores instrument, TopSafe, probe and Testo infrared printer                                | 0516.3250 |
|      | <b>NIST calibration certification</b>   | 0520.0010 |

Information and prices subject to change without notice.

### Distributed By:

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