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testo 545

Luxmeter with location management and mean calculation



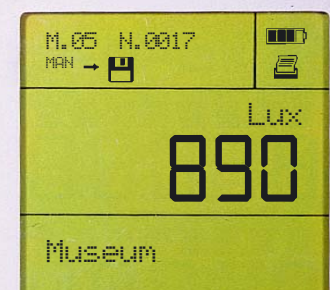
Measuring light in the workplace



Mean calculation in a repro studio



Light profile measurement in a museum



Integrated location management

Lux

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.

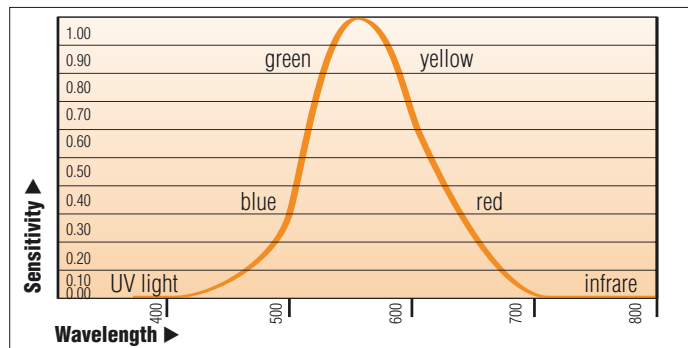
Mean calculation
The mean value can be calculated at the touch of a button from measured lux values (max. 99). This is particularly helpful when, for example, the mean light intensity on a table surface is to be measured.

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**.

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 ₁ = 8 % f ₁ = V (λ) adaptation f ₂ = 5 % f ₂ = cos like rating	
Resolution:	0 to 32,000 Lux 0 to 100,000 Lux 0 to 3,200 fc 0 to 10,000 fc	1 Lux 10 Lux 0.1 fc 1 fc
Display:	2 line LCD and 2 matrix lines	
Battery lifetime:	9 V IEC 6F22 > 45 h Al-Mn	
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:	<ul style="list-style-type: none"> - HOLD/MAX/MIN values - Timed mean calculation - Multi-point mean calculation of 99 measurement points – log contents (memory or printout): <ul style="list-style-type: none"> - 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 	

Mean calculation

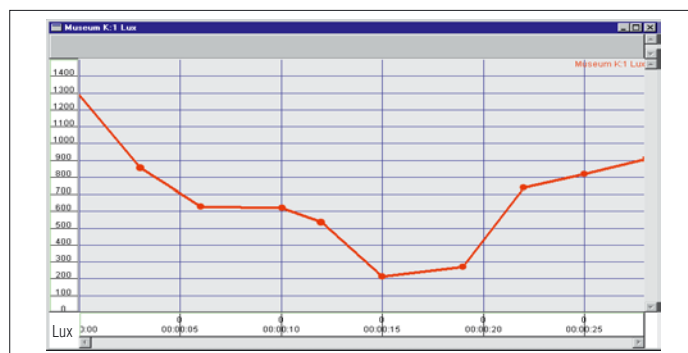
Two mean calculation functions, timed and multi-point, are available to the user. The mean values can be saved in the memory and printed.

Location management

A special feature of **testo 545** 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.

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.



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.
	testo 545 incl. probe, batteries, instruction manual and calibration protocol	0560.0545
	TopSafe (indestructible protective case) incl. bench stand and belt clip , to protect the measuring instrument against impact, dirt...	0516.0441
	Testo log printer , prints measured data with date and time on location	0554.0545
	Recharger for Printer	0554.0110
	Spare thermal paper (6 rolls). Measurement data documentation legible for up to 10 years	0554.0568
	Spare thermal paper (6 rolls)	0554.0569
	ComSoft3 for data management incl. data base, analysis and graphics function, data analysis, trend curve	0554.0830
	RS 232 cable , connects measuring instrument ↔ PC for data transmission	0409.0178
	Transport case , stores measuring instrument, TopSafe, probe and Testo log printer	0516.0445
	ISO calibration certificate , calibration points: 100, 500, 1000 Lux	0520.0010

Subject to change without notice.

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Department	Date, Signature