

LED Photometer SAUTER SP



Compact photometer, optimised for accurate light measurement, including LED light measurement

Features

- For measuring illumination of office workstations, production workstations, etc.
- Photo sensor: silicon diode, filtered
- Cosine correction for angular incident light
- Data-hold function, to freeze the current measurement
- **1** Rotatable sensor unit (+90 and -180°) for optimum alignment to the light source
- Track function for continuous recording of changing environmental conditions
- By pressing the key, the current measured value can be frozen until the key is pressed again
- Selectable measuring units: fc (foot-candle), lux
- Easy to toggle between units at the press of a button
- Option of fitting a stand on the rear of the housing, 1/4" thread
- Sturdy protective cover for the photo sensor
- **2** Increased service life: Impact protection through delivery in a soft box with light protection

Technical data

- Measurement precision up to 20.000 Lux: $\pm 4\%$ of the result + 10 scale intervals
- Measurement precision from 20.000 Lux: $\pm 5\%$ of the result + 10 scale intervals
- Repeatability: $\pm 2\%$ of [Max]
- Temperature error: $\pm 0,1\%$ von [Max]/°C
- Measuring frequency: 2 Hz
- Overall dimensions W×D×H 185×68×38 mm
- Ready for use: Batteries included, 9 V block, operating time up to 200 h
- Net weight approx. 0,15 kg

STANDARD



OPTION



Model	Measuring range	Readout	Option
	[Max] lx	[d] lx	Factory calibration certificate
SAUTER			KERN
SP 200K	200	0,1	961-190
	2000	1	
	20000	10	
	200000	100	

 Adjusting program (CAL) For quick setting of the instrument's accuracy. External adjusting weight required	 Bluetooth* data interface To transfer data from the balance/measuring instrument to a printer, PC or other peripherals	 Measuring units Weighing units can be switched to e.g. non-metric. Please refer to website for more details	 Conformity assessment Models with type approval for construction of verifiable systems
 Calibration block Standard for adjusting or correcting the measuring device	 WIFI data interface To transfer data from the balance/measuring instrument to a printer, PC or other peripherals	 Measuring with tolerance range (limit-setting function) Upper and lower limiting can be programmed individually. The process is supported by an audible or visual signal, see the relevant model	 DAkkS calibration possible The time required for DAkkS calibration is shown in days in the pictogram
 Peak hold function Capturing a peak value within a measuring process	 Data interface infrared To transfer data from the measuring instrument to a printer, PC or other peripheral devices	 Protection against dust and water splashes IPxx The type of protection is shown in the pictogram cf. DIN EN 60529:2000-09, IEC 60529:1989 +A1:1999+A2:2013	 Factory calibration (ISO) The time required for factory calibration is specified in the pictogram
 Scan mode Continuous capture and display of measurements	 Control outputs (optocoupler, digital I/O) To connect relays, signal lamps, valves, etc.	 Battery operation Ready for battery operation. The battery type is specified for each device	 Package shipment The time required for internal shipping preparations is shown in days in the pictogram
 Push and Pull The measuring device can capture tension and compression forces	 Analogue interface To connect a suitable peripheral device for analogue processing of the measurements	 ZERO Resets the display to "0"	 Pallet shipment The time required for internal shipping preparations is shown in days in the pictogram
 Length measurement Captures the geometric dimensions of a test object or the movement during a test process	 Analogue output For output of an electrical signal depending on the load (e.g. voltage 0 V – 10 V or current 4 mA – 20 mA)	 Rechargeable battery pack Rechargeable set	
 Focus function Increases the measuring accuracy of a device within a defined measuring range	 Statistics Using the saved values, the device calculates statistical data, such as average value, standard deviation etc.	 Plug-in power supply 230V/50Hz in standard version for EU. On request GB, AUS or US version available	
 Internal memory To save measurements in the device memory	 PC Software To transfer the measurement data from the device to a PC	 Integrated power supply unit Integrated, 230V/50Hz in EU. More standards e.g. GB, AUS or US on request	
 Data interface RS-232 Bidirectional, for connection of printer and PC	 Printer A printer can be connected to the device to print out the measurement data	 Motorised drive The mechanical movement is carried out by an electric motor	
 Profibus For transmitting data, e.g. between scales, measuring cells, controllers and peripheral devices over long distances. Suitable for safe, fast, fault-tolerant data transmission. Less susceptible to magnetic interference	 Network interface For connecting the scale/measuring instrument to an Ethernet network	 Motorised drive The mechanical movement is carried out by a synchronous motor (stepper)	
 Profinet Enables efficient data exchange between decentralised peripheral devices (balances, measuring cells, measuring instruments etc.) and a control unit (controller). Especially advantageous when exchanging complex measured values, device, diagnostic and process information. Savings potential through shorter commissioning times and device integration possible	 KERN Communication Protocol (KCP) It is a standardized interface command set for KERN balances and other instruments, which allows retrieving and controlling all relevant parameters and functions of the device. KERN devices featuring KCP are thus easily integrated with computers, industrial controllers and other digital systems	 Fast-Move The total length of travel can be covered by a single lever movement	
 Data interface USB To connect the measuring instrument to a printer, PC or other peripheral devices	 GLP/ISO record keeping of measurement data with date, time and serial number. Only with SAUTER printers		