# **SAUTER CATALOGUE 2021**

# Photometer SAUTER SO





SAUTER

# Photometer for precise light measurement up to 200,000 Lux

# Features

- Helps to determine if workplace lighting meets standard requirements, e.g. DIN EN 12464-1 "Lighting of workplaces indoors"
- Photo sensor: silicon diode
- Cosine correction for angular incident light
- Sturdy protective cover for the photo sensor
- Increased service life: Impact protection by means of a protective casing
- I Delivery in a robust box
- Track function for continuous recording of changing environmental conditions
- Peak Hold Mode to capture peaks
- Selectable measuring units: fc (foot-candle), lx

# Technical data

- Measuring frequency: 2 Hz
- Cable length (Photo sensor) approx. 1 m
- Dimensions W×D×H 100×60×28 mm
- Battery operation, battery not standard (9 V Block), AUTO-OFF function for battery conservation
- Net weight approx. 250 g



Model	Measuring range	Readout	Option Factory calibration certificates
	[Max]	[d]	
SAUTER	lx	lx	KERN
	200	0,1	
SO 200K	2000	1	961-190
	20000	10	901-190
	20000	100	

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# Pictograms



Adjusting program (CAL): For quick setting of the instrument's accuracy. External adjusting weight required



Calibration block: Standard for adjusting or correcting

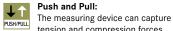
the measuring device

## Peak hold function: PEAK

Capturing a peak value within a measuring process



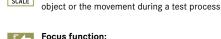
Scan mode: Continuous capture and display of measurements



tension and compression forces



Length measurement: Captures the geometric dimensions of a test



FOCUS

Focus function:

Increases the measuring accuracy of a device within a defined measuring range



Internal memory:

To save measurements in the device memory



# Data interface RS-232:

Bidirectional, for connection of printer and PC



# 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.



# 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



### Data interface USB:

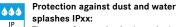
To connect the measuring instrument to a printer, PC or other peripheral devices

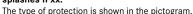
# ℅

Bluetooth\* data interface: To transfer data from the balance/measuring

instrument to a printer, PC or other peripherals









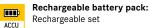
ZERO: Resets the display to "0"

Battery operation:



Ready for battery operation. The battery type is

specified for each device



Rechargeable set

230 V



230V/50Hz in standard version for EU. On request GB, AUS or USA version available



Power supply:

Integrated, 230V/50Hz in EU. More standards e.g. GB, AUS or USA on request



Motorised drive: The mechanical movement is carried ELECTRO out by a electric motor



### Motorised drive:

The mechanical movement is carried out by a synchronous motor (stepper)



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## Fast-Move:

The total length of travel can be covered by a single lever movement



### Verification possible:

The time required for verification is specified +3 DAYS in the pictogram



## DAkkS calibration possible:

The time required for DAkkS calibration is shown in days in the pictogram

# **ISO** +4 DAYS

Factory calibration: The time required for factory calibration is specified in the pictogram



## Package shipment: The time required for internal shipping

preparations is shown in days in the pictogram

## Pallet shipment:



The time required for internal shipping preparations is shown in days in the pictogram

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Your KERN specialist dealer:



#### 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

For connecting the scale/measuring instrument

GLP/ISO record keeping:

Of measurement data with date, time and PRINTER serial number. Only with SAUTER printers

WLAN data interface:

Data interface Infrared:

To connect relays, signal lamps,

To transfer data from the balance/measuring

instrument to a printer, PC or other peripherals

To transfer data from the measuring instrument

to a printer, PC or other peripheral devices

Control outputs (optocoupler, digital I/O):

To connect a suitable peripheral device for

analogue processing of the measurements

For output of an electrical signal depending

Using the saved values, the device

calculates statistical data, such as

To transfer the measurement data

to print out the measurement data

from the device to a PC

Network interface:

to an Ethernet network

average value, standard deviation etc.

A printer can be connected to the device

on the load (e.g. voltage 0 V - 10 V or current

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SWITCH

ANALOG

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STATISTIC

SOFTWARE

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LAN

KCP

PROTOCOL

valves, etc.

Analogue interface:

Analog output:

4 mA – 20 mA) Statistics:

PC Software:

Printer:

# Measuring units:

Weighing units can be switched to e.g. non-metric at the touch of a key. Please refer to website for more details



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

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