



OCCUPATIONAL SAFETY, ENVIRONMENT

Prevention of accidents as well as modern health care have got the same operational starting point in many countries. With industrialisation and the formation of conurbations, transport infrastructures and large companies, regular preventive medical examinations were introduced for wide sections of the population.

In addition to preventive medical examinations, monitoring of working conditions with defined limits was also introduced. To date, the regular checking of these limits as part of safety and accident prevention measures is domiciled as a business responsibility up till now.

For this purpose, SAUTER provides a targeted selection of the most commonly-used instruments in general measuring technology. They can be used to measure environmental influences such as noise (acoustic pressure) or light.

For regular calibration, our pick-up and return service can be used, which will save you a lot of efforts and expenses.

Quick-Finder


Readout	Measuring range	Model	Page
[d]	[Max]	SAUTER	
-	420 °C	JIT 100	90
-	1100 °C	JIT 200	90
0,1 dB	130 dB	SU 130	87
0,1 dB	134 dB	SW 1000	88
0,1 dB	136 dB	SW 2000	88
0,1 1 10 100 lx	200 2000 20000 200000 lx	SO 200K	85
0,1 1 10 100 lx	200 2000 20000 200000 lx	SP 200K	86

■ News 2024



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
- Track function for continuous recording of changing environmental conditions
- Peak Hold function to capture peak value
- Selectable measuring units: fc (foot-candle), lux
- Sturdy protective cover for the photo sensor
- Increased service life: Impact protection by means of a protective casing
-  Delivery in a robust box

Technical data

- Measuring frequency: 2 Hz
- Cable length (Photo sensor) approx. 1 m
- Overall dimensions W×D×H 160×72×40 mm
- Battery operation, batteries standard (9 V block), AUTO-OFF function to preserve the battery
- Net weight approx. 0,25 kg

STANDARD

PEAK

BATT

1 DAY

OPTION

ISO
+10 DAYS

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



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: ± 4 % of the result + 10 scale intervals
- Measurement precision from 20.000 Lux: ± 5 % of the result + 10 scale intervals
- Repeatability: ± 2 % of [Max]
- Temperature error: ± 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



BATT



1 DAY

OPTION



ISO
±10 DAYS

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

BASIC
★



Versatile sound level meter

Features

- Sound level meter with basic functions for measuring noise in areas such as, environment, mechanical applications, car industry and much more
- Measures the sound intensity in the workplace
- Helps in differentiating between normal noise influences, and excessive noise, nuisances e.g. in a production hall
- 1 Data interface RS-232, included
- Multi measuring functions:
 - Lp: Standard sound level measuring function
 - Leq: Energy equivalent sound level measuring mode (type A)
 - Ln: Shows the deviation from a pre-defined limit in %

- Selectable methods of evaluation:
 - A: As sensitive as the human ear
 - C: Sensitive for noisier environmental conditions, where there are machines, plant, motors etc.
 - F: For areas with constant sound intensity
- Limit value function: programmable value for the maximum level value
- Track function for continuous recording of changing environmental conditions
- Peak Hold function to capture peak value
- Internal memory for 30 measured values, transferable to PC with SAUTER ATC-01
- 2 Delivered in a robust carrying case

Technical data

- Measuring precision: 3 % of [Max]
- Dimensions W×D×H 223×62×25 mm
- Battery operation, batteries standard (4×1.5 V AAA)
- Net weight approx. 0,20 kg

Accessories

- Data transfer software, interface cable included, SAUTER ATC-01
- Adjustment device for regular adjustment of the sound level meter, SAUTER ASU-01
- Foam protective cover, SAUTER ASU-02

STANDARD

PEAK

MEMORY

RS 232

TOL

BATT

1 DAY

OPTION

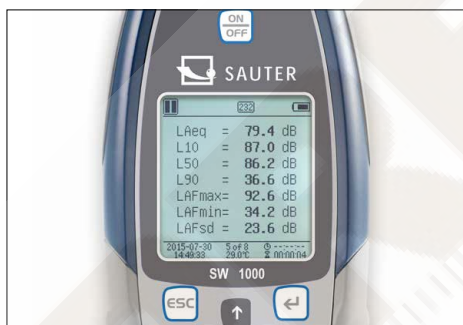
SOFTWARE

ISO +10 DAYS

Model	Type	Measuring range	Readout	Option
		[Min]-[Max]	[d]	Factory calibration certificate
		dB	dB	KERN
SAUTER				
SU 130	Lp A	30 - 130	0,1	961-281
	Leq C	30 - 130		
	Ln F	30 - 130		



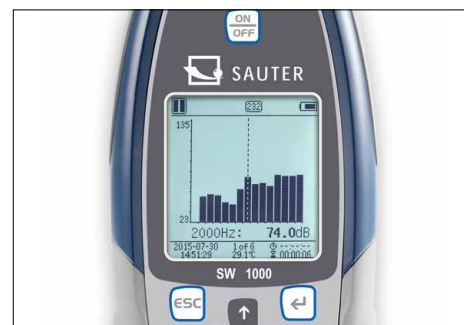
First-class professional Class I, Class II sound level meter



Data logging function with date and time in the device....



...and data transfer using MicroSD (4G) memory card (included in delivery), RS-232 or USB



Different sound pressure levels can be selected, such as, LAeq, LcPeak, LaF, LaFMax, LaFMin, SD, SEL, E



Features

- Ideal for measurements for workplaces outdoor, e.g. at airports, on building sites, in road traffic etc. with wide frequency access
- Modern microcontroller architecture for increased stability and accuracy
- A specially-developed algorithm permits a compliant dynamic range of more than 120 dB! (SW 1000: > 123 dB; SW 2000: > 122 dB)
- Three profiles and 14 user-defined measurements can be calculated in parallel with different frequency and time weighting
- LN statistics and display of the graph showing the progression of time
- User-defined integral interval measurement up to a maximum of 24 hours is possible
- Frequency weighting (filter) A, B, C, Z
- Time interval during measurement: F (fast), S (slow), I (pulse)
- Freely-definable limits for the output of an optical alarm signal
- Peak Hold function to capture peak value
- Octave function for targeted sound analysis, can be expanded to 1/3 octave through the purchase of a licence
- TRACK function with graphic display of a measurement
- Calibration mode (with optional calibrator)
- Trigger mode: external start/stop of measurement via 3,5 mm connector
- Automatic measurement for timer function
- is possible
- Operating languages: EN, DE, FR, ES, PT
- **2** Option of fitting a stand on the rear of the housing, 1/4" thread
- **1** Delivery in robust transport case

Technical data

- Applicable standards:
 - IEC61672-1:2014-07
 - GB/T3785.1-2010
 - 1/1 Octave in accordance with IEC 61260:2014
- 1/2" microphone
- Output (direct or alternating current) AC (max 5 VRMS), DC (10 mV/DB)
- Mains adapter external, standard
- Battery operation possible, 4x1.5 V AA not included, operating time up to 10 h
- Overall dimensions WxDxH 200x85x40 mm
- Permissible ambient temperature -10 °C/50 °C
- Net weight approx. 0,40 kg

Accessories

- Plug-In for data transfer of measuring data from the measuring instrument and transfer to a PC, e.g. in Microsoft Excel®, SAUTER AFI-2.0, see internet
- **2** Stand, WxDxH 430x90x90 mm, SAUTER SW-A05
- SD-memory card, storage capacity 4 GB, SAUTER SW-A04
- Foam protective cover, SAUTER SW-A03
- **3** Calibrator for regular adjustment of the sound level meter, class 1, as well as testing the linearity of sound level meters
 - Applicable standards: IEC60942:2003 Class 1, ANSI S1.40-1984, GB/T 15173-1994.
 - Output frequency 1 kHz (+/- 0,5 %)
 - Output of acoustic pressure, can be selected at 94 dB or 114 dB (± 0.3 dB)
 - Distortion factor < 2 %
 - Stabilisation time < 10 s
 - Permissible ambient temperature range -10 °C/50 °C
 - The calibrator is designed for 1/2" as well as 1/4" microphones (adapter included in the delivery) in accordance with the IEC 61094-4 standard
 - Battery operation, 2x1.5 V AA, not standard, operating time up to 40 hours
 - Dimensions WxDxH 70x70x48 mm
 - Net weight approx. 137 g, SAUTER BSWA-01
- Factory calibration certificate, for calibrator, SAUTER 961-291
- DAKS calibration certificate, for calibrator, SAUTER 963-291
- Expansion of the octave band to 1/3 octave, SAUTER SW-A10

STANDARD



OPTION



Model	Accuracy class	Measuring range linear [Min]-[Max] dB	Readout [d] dB	Frequency range [Min]-[Max] kHz	Sensitivity mv/Pa	Option Factory calibration certificate
SAUTER						KERN
SW 1000	1	20 – 134	0,1	0,01 – 20	50	961-281
SW 2000	2	25 – 136	0,1	0,02 – 12,5	40	961-281

NEW

PREMIUM
★ ★ ★



Infrared thermometer for industry, environmental engineering and maintenance work

Features

- 1 Determines the temperature of surfaces precisely
- Light EBTN colour display for optimum readability under the most varied environmental conditions
- MAX/MIN/AVG/DIF value memory to store the highest, lowest and average measured temperatures in a defined period of time as well as the difference between the highest and lowest value
- Limit-alarm function with memory for five temperatures or emission values respectively, which trigger an audible and visual signal (three-colour LED) when the value goes below or above these values
- 2 Main application areas: Temperature measurement in industry (e.g. metal processing, machine construction), environmental engineering, agriculture, laboratory and maintenance work (e.g. wind turbines)

SAUTER JIT 100

- Laser (Class 2 < 1 mW) to mark the measurement point
- Locked measurement for processes where the temperature needs to be monitored, i.e. the measured values are locked and protected from external influences
- With mounting hole for column mount

SAUTER JIT 200

- Double laser for even better positioning
- Hold function for measurements
- Time-based measurement is possible
- Internal data memory for up to 99 measurements with date and time
- With mounting thread for column mount

Technical data

- Laser class 2
- Tolerance range: +/- 1,5 °C or +/- 1,5 %
- Battery operation, 9 V block standard, operating time up to 9 h
- Overall dimensions WxDxH
SAUTER JIT 100: 162x90x48 mm
SAUTER JIT 200: 179x127x53 mm
- Net weight
SAUTER JIT 100: approx. 0,25 kg
SAUTER JIT 200: approx. 0,35 kg

STANDARD

PEAK
JIT 200

MEMORY
JIT 200

STATISTIC
JIT 200

UNIT
JIT 200

TOL

BATT

1 DAY

Model		Measuring range	D:S Optic
SAUTER		°C	
JIT 100	NEW	-32 – 420	12:1
JIT 200	NEW	-32 – 1100	20:1
NEW New model			