



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.



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Quick-Finder

Readout	Measuring range	Model	Price excl. VAT, ex works €	P.
[d] lx/dB	[Max] lx/dB	SAUTER		
0,1 1 10 100 lx	200 2000 20000 200000 lx	SO 200K	85,-	76
0,1 1 10 100 lx	200 2000 20000 200000 lx	SP 200K	95,-	77
0,1 dB	130 dB	SU 130	110,-	78
0,1 dB	134 dB	SW 1000	1750,-	79
0,1 dB	136 dB	SW 2000	960,-	79



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
-  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

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STANDARD   

OPTION 

Model	Measuring range [Max] lx	Readout [d] lx	Price excl. of VAT ex works €	Option Factory calibration certificates	
				KERN	€
SAUTER	200	0,1	85,-	961-190	165,-
SO 200K	2000	1			
	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 incidence of light at an angle
- Data-hold function, to freeze the current measurement
- **1** Rotatable sensor unit (+90 and -180°) for optimum alignment to the light source
- Sturdy protective cover for the photo sensor
- **2** Increased service life: Impact protection by means of delivery in a soft box with light protection
- TRACK function for continuous recording of variable environmental conditions
- By pressing the key, the current measured value can be frozen until the key is pressed again
- Selectable units: fc (foot-candle), lux
- Easy to toggle between units by a keypress
- Option of fitting a stand on the rear of the housing, 1/4" thread

Technical data

- Measuring precision up to 20.000 Lux: ± (4 % of the result + 10 scale intervals)
- Measuring precision from 20,000 Lux: ± (5 % of the result + 10 scale intervals)
- Repeatability: ± 2 % of [Max]
- Temperature error: ± 0,1 % of [Max]/°C
- Measuring frequency: 2 Hz
- Dimensions W×D×H 185×68×38 mm
- Ready to use: Battery included, 9 V block, operating time up to 200 hours
- Net weight approx. 130 g



Model	Measuring range [Max] lx	Readout [d] lx	Price excl. of VAT ex works €	Option Factory calibration certificates	
				KERN	€
SAUTER SP 200K	0-200	0,1	95,-	961-190	165,-
	200-2000	1			
	2000-20000	10			
	2000-200000	100			



Professional sound level meter

Features

- Professional sound level meter 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
- **2** Delivered in a robust carrying case
- 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 Mode to capture peaks
- Internal memory for 30 measured values, transferable to PC with SAUTER ATC-01

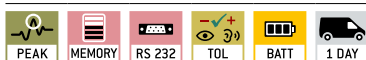
Technical data

- Measuring precision: 3 % of [Max]
- Dimensions W×D×H 236×63×26 mm
- Battery operation, batteries standard 4× 1.5 V AAA
- Net weight approx. 170 g

Accessories

- Data transfer software, interface cable included, SAUTER ATC-01, **€ 90,-**
- Adjustment device for regular adjustment of the sound level meter, SAUTER ASU-01, **€ 260,-**
- Foam windshield, SAUTER ASU-02, **€ 5,-**

STANDARD



OPTION



Model	Type	Measuring range	Readout	Price excl. of VAT ex works €
SAUTER		[Max] dB	[d] dB	
SU 130	Lp A	30-130	0,1	110,-
	Lp C	35-130		
	Lp F	35-130		



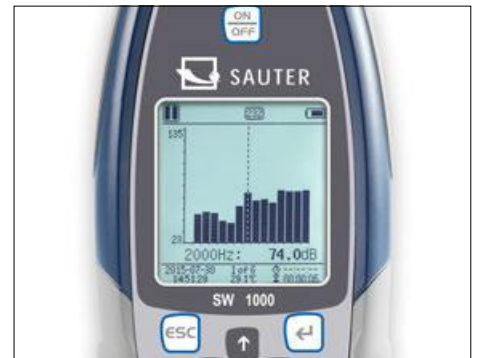
First-class professional Class I, Class II sound level meter



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 broad access to spectrum thanks to the highly-accurate 24-Bit A/D converter
- Floating point evaluation for higher level of accuracy and better stability
- The optimised analogue frontend switch reduces the ambient noise and increases the linear measuring range
- 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 the peak value
- Octavo function for targeted sound analysis
- 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
- Selectable frequency for recording measurements: 10, 5, 2 Hz
- Operating languages: GB, DE, FR, ES, PT
- 1 Delivery in robust transport case
- 2 Option of fitting a stand on the rear of the housing, 1/4" thread

Technical data

- Applicable standards: IEC61672-1:2014-07 GB/T3785.1-2010 1/1 Octave in accordance with IEC 61260:2014
- 1/2" microphone
- Permissible ambient temperature range -10 °C/50 °C
- Output (direct or alternating current) AC (max 5 VRMS), DC (10 mV/DB)
- Mains operation as standard
- Battery operation, 4x 1.5 V AA, not included, operating time up to 10 h
- Dimensions WxDxH 80x36x300 mm
- Net weight approx. 400 g

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-1.0, € 90,-
- 2 Stand, WxDxH 430x90x90 mm, 1250x750x750 mm (moved out), SAUTER SW-A05, € 60,-
- SD-memory card, storage capacity 4 GB, SAUTER SW-A04, € 50,-
- Foam windshield, SAUTER SW-A03, € 40,-
- 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, 2x 1.5 V AA, not standard, operating time up to 40 hours
 - Dimensions WxDxH 70x70x48 mm
 - Net weight approx. 137 g
 - SAUTER BSWA-01, € 710,-
 - Factory calibration certificate for calibrator, SAUTER 961-291, € 145,-
 - DAKKS-Calibration certificate for calibrator, SAUTER 963-291, € 205,-

STANDARD



OPTION



Model	Accuracy class	Measuring range Linear dB	Frequency range kHz	Sensitivity mV/Pa	Price excl. of VAT ex works €	Option DAKKS calibration certificate		Option Factory calibration certificates	
						DAKKS KERN	€	KERN	€
SAUTER SW 1000	1	20-134	0,01-20	50	1750,-	963-281	270,-	961-281	190,-
SAUTER SW 2000	2	25-136	0,02-12,5	40	960,-	963-281	270,-	961-281	190,-