

Product brochure

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SAUTER SW 1000

Professional Class I sound level meter in premium quality

ENGLISH



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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 > 123 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
- Option of fitting a stand on the rear of the housing, 1/4" thread
- 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
- ½" microphone
- Output (direct or alternating current) AC (max 5 VRMS), DC (10 mV/DB)
- Mains adapter external, standard
- Optional battery operation, 4×1.5 V AA not included in scope of delivery, operating time up to 10 h
- Overall dimensions W×D×H 210×80×40 mm
- Permissible ambient temperature -10 °C/50 °C
- Net weight approx. 0,40 kg

MAIN SCOPE OF APPLICATIONS

- Occupational safety and industry
- Construction and building sites
- Event and sound technology
- Environmental protection
- Research and development
- Technical test centres and experts
- Acoustic laboratories

PICTOGRAMS

Standard

Option

MODEL OVERVIEW

Model	Measuring range [Min]	Measuring range [Max]	Readability [d]	Sound level measuring modes	Sound level methods of evaluation
SW 1000	20 dB	134 dB	0,1 dB	• Lp	• A
				• Leq	• C
				• Ln	• Z
				• Lcpeak	• B

ACCESSORIES

Model	Description
BSWA-01	Sound Calibration Generator BSWA-01
SW-A05	Column SW-A05
YKA-20	Power adapter YKA-20 (12 V, 1000 mA 100 V - 240 V AC 50/60 Hz 0.4 A max EURO, UK, US)

SERVICES

Model	Description
961-281	Factory calibration certificate 961-281
963-281	DAkkS calibration certificate 963-281
970-109	Warranty extension (+2 years) 970-109
SW-A10	License SW-A10 (Expansion of the octave band to 1/3 octave)

KERN Pictogram Overview

	Peak hold function: capturing a peak value within a measuring process
	Memory: Device-internal memory capacity, e.g. for article data, measuring data, tare weights, PLU etc.
	Data interface RS-232: For connection to printers, PCs or other peripheral devices for data transfer over longer distances. Network in bus topology possible
	Data Interface USB: For connection to printers, PCs or other peripheral devices
	Analogue interface: to connect a suitable peripheral device for analogue processing of the measurements
	Statistics: using the saved values, the device calculates statistical data, such as average value, standard deviation etc.
	Measuring with tolerance range (checkweighing): Upper and lower limit values can be programmed, e.g. for sorting, portioning or for measuring coatings or material thicknesses. The process is supported by an acoustic and/or optical signal
	Battery operation: Ready for battery operation
	Plug-in power supply: 230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available
	Package shipment by courier service: The duration of internal product provision is one day
	PC Software: to transfer the measurements from the device to a PC
	Factory calibration (ISO): Factory calibration takes 4 working days
	Accredited calibration (DKD): The duration of the accredited calibration is 3 working days