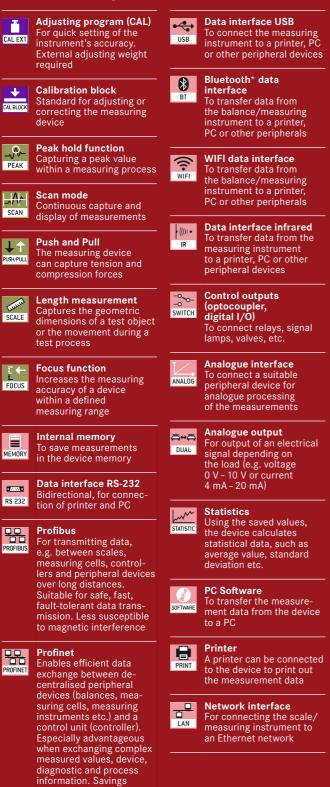


# OCCUPATIONAL SAFETY, ENVIRONMENT

Industry | Laboratory | Quality Assurance



# **SAUTER Pictograms**





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potential through shorter commissioning times and device integration possible

# SAUTER Models A-Z

SAUTER Models A-Z		
281/285 283		- 6 7
287/289		_ 5
А		
AE 500 AFH FAST		34 35
AFH FASTAFH FD/AFH LD		36
AFI 2.0		37
C		~~~
CB CE HSx		92 84
CE WI		85 96
СК		90
CP CR	_88	-89 91
CT CS		93
CS CW	94· _98-1	-95 100
D		
DA		_41
DB DC Y1 · DC Y2		42 87
F		
FA		8
FC FC 1K-BT		_10 _21
FG FH-M		20 13
FH-S		12
FK FL-M		_ 9 15
FL-S		14
FS FS Set	16 18	-17 -19
Н		
НВ		60
HD HE		_61 58
HK-D/-DB HMM/-NP		64 65
НМО́		67
HN-D HO	70	66 71-
J		
JCS	_80	-81
JCT JIT		48 78
L		
LB		39
S		
S71 SD-M		24 32
SO		73
SP SU		_74 75
SW	76	-77
Т		
TB TB-US		44 50
TC TD-US		45 _51
TE		46
TF/TG TI		47 62
		59 54
TN-EE TN-GOLD		52
TN-US TO-EE		53 56
TU-US		55
TVL/-E/-O/XLS TVM-N/-NL/-LB	28	22 -29
TVO TVO-S/-LD		25 -27
TVP/-L		23
TVS/-LD	30	-31
Y		0.0

# **SAUTER Customer Consultants**

With questions about our products and services, we will be happy to advise you:

# Product Specialist Measuring Technology



Irmgard Russo Tel. +49 7433 9933-208 info.sauter@kern-sohn.com

# Product Specialist Measuring Technology

Helga Biselli Tel. +49 7433 9933-188 info.sauter@kern-sohn.com

# **Product Specialist Measuring Technology**



Andreas Vossler Tel. +49 7433 9933-243 info.sauter@kern-sohn.com

# UK, BE, IRE, IS, LUX, NL



Maren Neff Tel. +49 7433 9933-132 Mobil +49 151 46143240 maren.neff@kern-sohn.com

# PL, LV, LT, EE, SK, CZ, HU



Mark Hauder Tel. +49 7433 9933-310 Mobil +49 160 3378426 mark.hauder@kern-sohn.com

# SL, HR, AL, MK, BG, BA, ME, RO, GR, CY, GUS



Ariana Sevcenco Tel. +49 7433 9933-203 Mobil +49 151 72434692 ariana.sevcenco@kern-sohn.com

# North America, Africa, Asia, Middle East, Oceania, TR



Corinna Matthes Tel. +49 7433 9933-215 Mobil +49 151 44568364 corinna.matthes@kern-sohn.com

# Category Manager Industrial Measuring Technology



Michael Stingel Tel. +49 7433 9933-293 michael.stingel@kern-sohn.com

# Sales & Marketing Manager



**Stephan Ade** Tel. +49 7433 9933-121 Mobil +49 171 3060086 <u>ade@kern-sohn.com</u>

# **SAUTER Hotlines**

Technica You will

Service I for general

83



199

find assistance here quickly: +49 7433 9933	
Hotline I technical questions about your SAUTER product	

SAUTER Measuring Instruments	→555
for all technical questions concerning our SAUTER measuring instruments,	
test benches, force measuring accessories (clamps etc.), SAUTER software	

# **Industrial Scales**

for all technical questions concerning our basic scales (laboratory & industry), pocket balances, school balances, bench scales, price-computing scales, platform scales, counting scales, counting systems, floor scales, pallet truck scales, crane scales, veterinary scales

# **System Solutions Industry 4.0**

for all technical questions concerning the interlocking of the latest information and communication technology with our scales, load cells and measuring devices as well as questions about KERN software **→200** 

→333

# A REAL PROVIDENCE OF THE REAL PROVIDENCE OF T









# 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),  $\mathsf{lux}$
- 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
- Battery operation, batteries standard
   (9 V block), AUTO-OFF function to preserve the battery
- Overall dimensions W×D×H 160×72×40 mm
- Net weight approx. 0,25 kg



Model	Measuring range	Readout	Price excl. of VAT	Option Factory calibration certificate	
SAUTER	[Max] Ix	[d] Ix	ex works €	KERN	€
	200	0, 1			
SO 200K	2000	1	0.4	0(1 100	325,-
50 200K	20000	10	<b>84,-</b> 961-190		325,-
	200000	100			









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

**Technical data** 

# Features

measurement

- For measuring illumination of office workstations, production workstations, etc.
- Photo sensor: silicon diode, filtered
- Cosine correction for angular incident lightData-hold function, to freeze the current

• 1 Rotatable sensor unit (+90 and -180°)

for optimum alignment to the light source

• Track function for continuous recording of

- Repeatability: ± 2 % of [Max]
  - Temperature error: ± 0,1 % von [Max]/°C
  - Measuring frequency: 2 Hz
  - Ready for use: Batteries included, 9 V block, operating time up to 200 h

• Measurement precision up to 20.000 Lux:

 $\pm$  4 % of the result + 10 scale intervals

 $\pm$  5 % of the result + 10 scale intervals

Measurement precision from 20.000 Lux:

- Overall dimensions W×D×H 185×68×38 mm
- Net weight approx. 0,15 kg
- changing environmental conditionsBy 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
- Increased service life: Impact protection through delivery in a soft box with light protection



Model	Measuring range	Readout	Price excl. of VAT	Option Factory calibration certificate	
SAUTER	[Max] Ix	[d] Ix	ex works €	KERN	€
	200	0,1			
SP 200K	2000	1	105	0(1 100	205
3P 200K	20000	10	<b>105,-</b> 961-190		325,-
	200000	100			



# 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**

2

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

### Accessories

- Data transfer software, interface cable included, SAUTER ATC-01, € 100,-
- Adjustment device for regular adjustment of the sound level meter, SAUTER ASU-01, € 290,-
- Foam protective cover, SAUTER ASU-02, € 8,-

STANDARD					OPTION		
		• 6554 •		D			ISO
PEAK	MEMORY	RS 232	TOL	BATT	1 DAY	SOFTWARE	+10 DAYS

Model	Туре	Measuring range	Readout		Option Factory Calibration	
SAUTER		[Min]-[Max] dB	[d] dB	ex works €	KERN	€
SU 130	Lp A Leq C Ln F	30 - 130	0,1	120,-	961-281	240,-



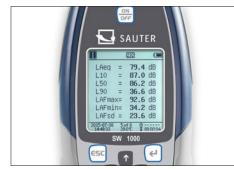








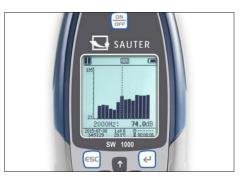
First-class professional Class I, Class II sound level meter



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

# Sound Level Meter SAUTER SW



# 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, 4×1.5 V AA not included, operating time up to 10 h
- + Permissible ambient temperature -10  $^\circ\text{C}/50$   $^\circ\text{C}$
- Overall dimensions W×D×H 200×85×40 mm
- 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, W×D×H 430×90×90 mm, SAUTER SW-A05, € 70,-
- SD-memory card, storage capacity 4 GB,
- SAUTER SW-A04, **€ 54,-**
- Foam protective cover,
- SAUTER SW-A03, € 47,-
- 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 ( $\pm$  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, 2× 1.5 V AA, not standard, operating time up to 40 hours
- Dimensions W×D×H 70×70×48 mm
- Net weight approx. 137 g,
- SAUTER BSWA-01, € 800,-
- Factory calibration certificate, for calibrator, SAUTER 961-291, € **300,**-
- DAkkS calibration certificate, for calibrator, SAUTER 963-291, € 270,-
- Expansion of the octave band to 1/3 octave, SAUTER SW-A10, € 440,-



Model	Accuracy class	Measuring range linear	Readout	Frequency range	Sensitivity	Price excl. of VAT	Option Factory Calibration	
SAUTER		[Min]-[Max] dB	[d] dB	[Min]-[Max] kHz	mv/Pa	ex works €	KERN	€
SW 1000	Class 1	20 - 134	0,1	0,01 - 20	50	2250,-	961-281	240,-
SW 2000	Class 2	25 - 136	0,1	0,02 - 12,5	40	1110,-	961-281	240,-







# Infrared thermometer for industry, environmental engineering and maintenance work

# Features

- 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
- 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 possibleInternal data memory for up to
- 99 measurements with date and timeWith mounting thread for column mount

# **Technical data**

- Laser class 2
- Tolerance range: +/- 1,5  $^{\circ}\mathrm{C}$  or +/- 1,5 %
- Battery operation, 9 V block standard, operating time up to 9 h

STANDAR	D					
		m	$\mathcal{C}$	-√+ ⊙ ?)	D	
PEAK	MEMORY	STATISTIC	UNIT	TOL	BATT	1 DAY
JIT 200	JIT 200	JIT 200	JIT 200			

Model	Measuring range	D:S Optic	Overall dimensions W×D×H	Net weight approx.	Price excl. of VAT ex works
SAUTER	°C		mm	kg	€
JIT 100	-32 - 420	12:1	162×90×48	0,25	99,-
JIT 200	-32 - 1100	20:1	179×127×53	0,35	160,-

# The oldest Precision Balance Factory in Germany

SAUTER GmbH

c/o KERN & SOHN GmbH

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