

PROFESSIONAL MEASURING



COATING THICKNESS MEASUREMENT

23

KERN Pictograms

 <p>Adjusting program (CAL): For quick setting of the instrument's accuracy. External adjusting weight required</p>	 <p>WLAN data interface: To transfer data from the balance/measuring instrument to a printer, PC or other peripherals</p>	 <p>Protection against dust and water splashes IPxx: The type of protection is shown in the pictogram cf. DIN EN 60529:2000-09, IEC 60529:1989+A1:1999+A2:2013</p>
 <p>Calibration block: Standard for adjusting or correcting the measuring device</p>	 <p>Data interface Infrared: To transfer data from the measuring instrument to a printer, PC or other peripheral devices</p>	 <p>ZERO: Resets the display to "0"</p>
 <p>Peak hold function: Capturing a peak value within a measuring process</p>	 <p>Control outputs (optocoupler, digital I/O): To connect relays, signal lamps, valves, etc.</p>	 <p>Battery operation: Ready for battery operation. The battery type is specified for each device</p>
 <p>Scan mode: Continuous capture and display of measurements</p>	 <p>Analogue interface: To connect a suitable peripheral device for analogue processing of the measurements</p>	 <p>Rechargeable battery pack: Rechargeable set</p>
 <p>Push and Pull: The measuring device can capture tension and compression forces</p>	 <p>Analogue output: For output of an electrical signal depending on the load (e.g. voltage 0 V – 10 V or current 4 mA – 20 mA)</p>	 <p>Plug-in power supply: 230V/50Hz in standard version for EU. On request GB, AUS or USA version available</p>
 <p>Length measurement: Captures the geometric dimensions of a test object or the movement during a test process</p>	 <p>Statistics: Using the saved values, the device calculates statistical data, such as average value, standard deviation etc.</p>	 <p>Integrated power supply unit: Integrated, 230V/50Hz in EU. More standards e.g. GB, AUS or USA on request</p>
 <p>Focus function: Increases the measuring accuracy of a device within a defined measuring range</p>	 <p>PC Software: To transfer the measurement data from the device to a PC</p>	 <p>Motorised drive: The mechanical movement is carried out by an electric motor</p>
 <p>Internal memory: To save measurements in the device memory</p>	 <p>Printer: A printer can be connected to the device to print out the measurement data</p>	 <p>Motorised drive: The mechanical movement is carried out by a synchronous motor (stepper)</p>
 <p>Data interface RS-232: Bidirectional, for connection of printer and PC</p>	 <p>Network interface: For connecting the scale/measuring instrument to an Ethernet network</p>	 <p>Fast-Move: The total length of travel can be covered by a single lever movement</p>
 <p>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.</p>	 <p>KERN Communication Protocol (KCP): 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</p>	 <p>Verification possible: Models with type approval for construction of verifiable systems</p>
 <p>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</p>	 <p>GLP/ISO record keeping: Of measurement data with date, time and serial number. Only with SAUTER printers</p>	 <p>DAkkS calibration possible: The time required for DAkkS calibration is shown in days in the pictogram</p>
 <p>Data interface USB: To connect the measuring instrument to a printer, PC or other peripheral devices</p>	 <p>Measuring units: Weighing units can be switched to e.g. non-metric. Please refer to website for more details</p>	 <p>Factory calibration: The time required for factory calibration is specified in the pictogram</p>
 <p>Bluetooth* data interface: To transfer data from the balance/measuring instrument to a printer, PC or other peripherals</p>	 <p>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</p>	 <p>Package shipment: The time required for internal shipping preparations is shown in days in the pictogram</p>
		 <p>Pallet shipment: The time required for internal shipping preparations is shown in days in the pictogram</p>

Do you have questions about our products? Our customer consultants will be pleased to assist you:

Product Specialist Measuring Technology



Irmgard Russo
Tel. +49 7433 9933-208
info@sauter.eu

Product Specialist Measuring Technology



Helga Biselli
Tel. +49 7433 9933-188
info@sauter.eu

Product Specialist Measuring Technology



Ralf Gutbrod
Tel. +49 7433 9933-306
info@sauter.eu

Product Specialist Measuring Technology



Andreas Vossler
Tel. +49 7433 9933-243
info@sauter.eu

FR, Maghreb, GB, IE, IS, BE, LU



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

DK, SE, FI, NO, PL, LV, LT, EE



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

GR, CY, BG, HU, RO, SK, CZ, AL, Ex-Yugoslavia, CIS



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

Germany (PC 4, 7), NL



Taras Mikitisin
Tel. +49 7433 9933-143
Mobil +49 171 5590115
mikitisin@kern-sohn.com

Technical Service



Stefan Rothmund
Tel. +49 7433 9933-179
rothmund@kern-sohn.com

DAKKS Calibration Service Balances & Measuring Instruments



Karl-Richard Fuchs
Tel. +49 7433 9933-401
recalibration-instruments@
kern-sohn.com

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Our team of consultants will assist you

from Monday to Friday
from 8:00 am to 5:00 pm



Practical measuring device for measuring the thickness of layers for daily use

Features	Technical data	Accessories
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- External sensor for difficult-to-access measuring points
- Base plate and calibration foils included
- **1** Delivered in a robust carrying case
- Offset-Accur: This function allows you to adjust the instrument precisely on the locally measured range by a two-point calibration. This results in a superior accuracy of 1 % (or less) of the measured value
- Selectable measuring units: μm , inch (mil)
- Auto-Power-Off
- SAUTER TB 2000-0.1F: Specifically designed for the automobile industry, Precision: Standard 3 % of measured value
- Type F: Non-magnetic coatings on iron and steel
- Type N: Coatings on non-magnetic metals

- Measuring precision:
 - Standard: 3 % of measured value
 - Offset-Accur: 1 % of measured value
- Smallest sample surface (radius)
 - Type F
 - Convex: 1,5 mm
 - Flat: 6 mm
 - Concave: 25 mm
 - Type N
 - Convex: 3 mm
 - Flat: 6 mm
 - Concave: 50 mm
- Minimum thickness of base material: 300 μm
- Overall dimensions WxDxH 161x69x32 mm
- Battery operation, batteries standard (4x1.5 V AA)
- Net weight approx. 0,75 kg

- **2** Calibration foils for increased measuring accuracy (covers the range from 20 up to 2000 μm , with < 3 % tolerance), SAUTER ATB-US07, **€ 115,-**
- **3** External sensor, Type F, SAUTER ATE 01, **€ 116,-**
- **4** External sensor, Type N, SAUTER ATE 02, **€ 125,-**

STANDARD					OPTION	

Model	Measuring range [Max] μm	Readout [d] μm	Test object	Price excl. of VAT ex works €	Option Factory calibration certificate	
					KERN	€
SAUTER TB 1000-0.1F	100 1000	0,1 1	Type F	360,-	961-110	150,-
SAUTER TB 2000-0.1F	100 2000	0,1 1	Type F	325,-	961-110	150,-
SAUTER TB 1000-0.1FN	100 1000	0,1 1	Combination instrument Type F/Type N	455,-	961-112	210,-



Robust measuring device for layer thickness – compact and easy to use

Features

- Ergonomic design for easy handling
- Data interface RS-232 as standard
- Base plate and calibration foils included
- **1** Delivered in a robust carrying case
- Offset-Accur: This function allows you to adjust the instrument precisely on the locally measured range by a two-point calibration. This results in a superior accuracy of 1 % (or less) of the measured value
- Selectable measuring units: μm , inch (mil)
- **2** SAUTER TC 1250-0.1FN-CAR
- Specifically designed for the automobile industry
- Automatic recognition of measuring mode (F or N): “point and shoot”
- Simple and convenient 1-key operation

Technical data

- Measuring precision:
 - Standard: 3 % of measured value or $\pm 2,5 \mu\text{m}$
 - Offset-Accur: 1 % of measured value or $\pm 1 \mu\text{m}$
- Smallest sample surface (radius)
 - Type F
 - Convex: 1,5 mm
 - Flat: 6 mm
 - Concave: 25 mm
 - Type N
 - Convex: 3 mm
 - Flat: 6 mm
 - Concave: 50 mm
- Minimum thickness of base material: 300 μm
- Overall dimensions W×D×H 131×65×28 mm
- Battery operation, batteries standard (4×1.5 V AAA)
- Net weight approx. 0,10 kg

Accessories

- Data transfer software, interface cable included, SAUTER ATC-01, **€ 100,-**
- Calibration foils for increased measuring accuracy (covers the range from 20 up to 2000 μm , with < 3 % tolerance), SAUTER ATB-US07, **€ 115,-**



Model	Measuring range [Max] μm	Readout [d] μm	Test object	Price excl. of VAT ex works €	Option Factory calibration certificate	
					KERN	€
SAUTER TC 1250-0.1F	100 1250	0,1 1	Non-magnetic coatings on iron, steel, Type F	410,-	961-110	150,-
TC 1250-0.1N*	100 1250	0,1 1	Coatings on non-magnetic metals, Type N	435,-	961-110	150,-
TC 1250-0.1FN	100 1250	0,1 1	Combination instrument Type F/Type N	520,-	961-112	210,-
TC 1250-0.1FN-CAR	100 1250	0,1 1	Combination instrument Type F/Type N	530,-	961-112	210,-



04

Ergonomic design and external sensor for highest ease of use

Features

- External sensor for difficult-to-access measuring points
- Data interface RS-232 as standard
- Base plate and calibration foils included
- **1** Delivered in a robust carrying case
- Offset-Accur: This function allows you to adjust the instrument precisely on the locally measured range by a two-point calibration. This results in a superior accuracy of 1 % (or less) of the measured value
- Selectable measuring units: μm , inch (mil)
- Auto-Power-Off

Technical data

- Measuring precision:
 - Standard: 3 % of measured value or $\pm 2,5 \mu\text{m}$
 - Offset-Accur: 1 % of measured value or $\pm 1 \mu\text{m}$
- Smallest sample surface (radius)
 - Type F
 - Convex: 1,5 mm
 - Flat: 1,5 mm
 - Concave: 25 mm
 - Type N
 - Convex: 3 mm
 - Flat: 5 mm
 - Concave: 50 mm
- Minimum thickness of base material: 300 μm
- Overall dimensions WxDxH 131x65x28 mm
- Battery operation, batteries standard (4x1.5 V AAA)
- Net weight approx. 0,10 kg

Accessories

- Data transfer software, interface cable included, SAUTER ATC-01, **€ 100,-**
- Calibration foils for increased measuring accuracy (covers the range from 20 up to 2000 μm , with < 3 % tolerance), SAUTER ATB-US07, **€ 115,-**
- **2** External sensor, Type F, SAUTER ATE 01, **€ 116,-**
- **3** External sensor, Type N, SAUTER ATE 02, **€ 125,-**

STANDARD						OPTION	

Model	Measuring range [Max] μm	Readout [d] μm	Test object	Price excl. of VAT ex works €	Option Factory calibration certificate	
					KERN	€
SAUTER TE 1250-0.1F	100 1250	0,1 1	Non-magnetic coatings on iron, steel, Type F	410,-	961-110	150,-
SAUTER TE 1250-0.1N	100 1250	0,1 1	Coatings on non-magnetic metals, Type N	450,-	961-110	150,-
SAUTER TE 1250-0.1FN	100 1250	0,1 1	Combination instrument Type F/Type N	520,-	961-112	210,-



04

Premium coating thickness gauge for paint coating, lacquer coating etc.

Features

- LCD display, backlit, display of all information at a glance
- Offset-Accur: This function allows you to adjust the instrument precisely on the locally measured range by a two-point calibration. This results in a superior accuracy of 1 % (or less) of the measured value
- Scan mode for continuous measurement or single point measuring mode
- Mini Statistics Kit: displays the measured result, the average value and the max and the min value
- Internal data memory for up to 99 values
- Selectable measuring units: μm , inch (mil)
- Base plate and calibration foils included
- Data interface RS-232 as standard
- Delivered in a robust carrying case

SAUTER TG

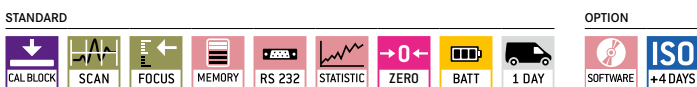
- External sensor for difficult-to-access measuring points

Technical data

- Measuring precision:
 - Standard: 3 % of measured value or $\pm 2,5 \mu\text{m}$
 - Offset-Accur: 1 % of measured value or $\pm 1 \mu\text{m}$
- Minimum thickness of base material: $300 \mu\text{m}$
- Overall dimensions WxDxH 126x65x35 mm
- Battery operation, batteries standard (2x1.5 V AAA)
- Net weight approx. 0,10 kg

Accessories

- Data transfer software, interface cable included, SAUTER ATC-01, **€ 100,-**
- Calibration foils for increased measuring accuracy (covers the range from 20 up to $2000 \mu\text{m}$, with $< 3 \%$ tolerance), SAUTER ATB-US07, **€ 115,-**
- SAUTER TG: External sensor, Type FN, SAUTER ATG 01, **€ 145,-**



Model	Measuring range [Max] μm	Readout [d] μm	Test object	Smallest sample surface (radius) mm	Price excl. of VAT ex works €	Option Factory calibration certificate	
						KERN	€
SAUTER TF 1250-0.1FN	100 1250	0,1 1	Combination instrument Type F/Type N	F: Convex: 1,5/ Concave: 25	600,-	961-112	210,-
SAUTER TG 1250-0.1FN	100 1250	0,1 1	Combination instrument Type F/Type N	N: Convex: 3/ Concave: 50	600,-	961-112	210,-

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Sauter GmbH
 c/o KERN & SOHN GmbH
 Ziegelei 1
 72336 Balingen
 Germany
 Tel. +49 7433 9933-0
 info@sauter.eu



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