

MATERIAL THICKNESS MEASUREMENT

Industry | Laboratory | Quality Assurance



SAUTER Pictograms

 Adjusting program (CAL) For quick setting of the instrument's accuracy. External adjusting weight required	 Data interface USB To connect the measuring instrument to a printer, PC or other peripheral devices	 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	 Motorised drive The mechanical movement is carried out by an electric motor
 Calibration block Standard for adjusting or correcting the measuring device	 Bluetooth* data interface To transfer data from the balance/measuring instrument to a printer, PC or other peripherals		 Motorised drive The mechanical movement is carried out by a synchronous motor (stepper)
 Peak hold function Capturing a peak value within a measuring process	 WIFI data interface To transfer data from the balance/measuring instrument to a printer, PC or other peripherals	 GLP/ISO record keeping of measurement data with date, time and serial number. Only with SAUTER printers	 Fast-Move The total length of travel can be covered by a single lever movement
 Scan mode Continuous capture and display of measurements	 Data interface infrared To transfer data from the measuring instrument to a printer, PC or other peripheral devices	 Measuring units Weighing units can be switched to e.g. non-metric. Please refer to website for more details	 Conformity assessment Models with type approval for construction of verifiable systems
 Push and Pull The measuring device can capture tension and compression forces	 Control outputs (optocoupler, digital I/O) To connect relays, signal lamps, valves, etc.	 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	 DAKkS calibration possible The time required for DAKkS calibration is shown in days in the pictogram
 Length measurement Captures the geometric dimensions of a test object or the movement during a test process	 Analogue interface To connect a suitable peripheral device for analogue processing of the measurements	 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	 Factory calibration (ISO) The time required for factory calibration is specified in the pictogram
 Focus function Increases the measuring accuracy of a device within a defined measuring range	 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)	 Battery operation Ready for battery operation. The battery type is specified for each device.	 Package shipment The time required for internal shipping preparations is shown in days in the pictogram
 Internal memory To save measurements in the device memory	 Statistics Using the saved values, the device calculates statistical data, such as average value, standard deviation etc.	 ZERO Resets the display to “0”	 Pallet shipment The time required for internal shipping preparations is shown in days in the pictogram
 Data interface RS-232 Bidirectional, for connection of printer and PC	 PC Software To transfer the measurement data from the device to a PC	 Rechargeable battery pack Rechargeable set	
 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	 Printer A printer can be connected to the device to print out the measurement data	 Integrated power supply unit Integrated, 230V/50Hz in EU. More standards e.g. GB, AUS or US on request	
 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	 Network interface For connecting the scale/measuring instrument to an Ethernet network		

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SAUTER Hotlines

Technical questions about our products?

You will find assistance here quickly: +49 7433 9933- ...

Service Hotline

for general technical questions about your SAUTER product

→ 199

SAUTER Measuring Instruments

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

→ 555

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

→ 333

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



5



BASIC
★



Reliable material thickness gauge for daily use

Features

- External measuring head for difficult-to-access measuring points
- Selectable measuring units: mm, inch
- Auto-Power-Off
- Base plate for adjustment included
- Scope of delivery: Operating instructions, batteries, external measuring head (ø 8 mm) and ultrasound contact gel
- **1** Delivered in a robust carrying case
- TB 200-0.1US-RED: Can only analyse these materials: cast iron, aluminium, copper, brass, zinc, quartz glass, polyethylene, PVC, grey cast iron, nodular cast iron, steel

Technical data

- Measuring precision: 0,5 % of [Max]
- Overall dimensions W×D×H 161×69×32 mm
- Battery operation, batteries standard (4×1.5 V AA)
- Net weight approx. 0,30 kg

Accessories

- External measuring head, 5 MHz, ø 6 mm, for thin test materials: measuring range (steel) up to approx. 80 mm, SAUTER ATB-US01, **€ 215,-**
- External measuring head, 5 MHz, ø 12 mm, for hot test materials: Measuring range (steel) 3-200 mm at temperatures of up to 300 °C, SAUTER ATB-US02, **€ 270,-**
- External measuring head, 5 MHz, ø 8 mm, SAUTER ATB-US06, **€ 110,-**
- External measuring head, 5 MHz, ø 10 mm, SAUTER ATU-US09, **€ 150,-**
- Ultrasound contact gel, refill pack, approx. 70 ml, SAUTER ATB-US03, **€ 35,-**

STANDARD

OPTION

Model	Measuring range	Readout	Sensor	Sound velocity	Price excl. of VAT ex works €	Option	
						Factory Calibration	Certificate
SAUTER	mm	[d] mm		m/sec		KERN	€
TB 200-0.1US	1,5 – 200	0,1	5 MHz ø 8 mm	500 – 9999	405,-	961-113	167,-
TB 200-0.1US-RED	1,5 – 200	0,1	5 MHz ø 8 mm	500 – 9999	345,-	961-113	167,-



5

Compact pocket-sized material thickness gauge

Features

- External measuring head for difficult-to-access measuring points
- Selectable measuring units: mm, inch
- Data interface RS-232, included
- AUTO-OFF function to preserve the battery
- Base plate for adjustment included
- Scope of delivery: Operating instructions, batteries, external measuring head (ø 8 mm) and ultrasound contact gel
- **1** Delivered in a robust carrying case

Technical data

- Measuring precision: 0,5 % of [Max] + 0,1 mm
- Overall dimensions W×D×H 30×65×120 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, **€ 100,-**
- External measuring head, 5 MHz, ø 6 mm, for thin test materials: measuring range (steel) up to approx. 80 mm, SAUTER ATB-US01, **€ 215,-**
- External measuring head, 5 MHz, ø 12 mm, for hot test materials: Measuring range (steel) 3-200 mm at temperatures of up to 300 °C, SAUTER ATB-US02, **€ 270,-**
- External measuring head, 5 MHz, ø 8 mm, SAUTER ATB-US06, **€ 110,-**
- External measuring head, 5 MHz, ø 10 mm, SAUTER ATU-US09, **€ 150,-**
- External measuring head, 5 MHz, ø 10 mm, transducer at an angle of 90°, SAUTER ATU-US10, **€ 150,-**
- Ultrasound contact gel, refill pack, approx. 70 ml, SAUTER ATB-US03, **€ 35,-**

STANDARD

CAL BLOCK

RS 232

BATT

1 DAY

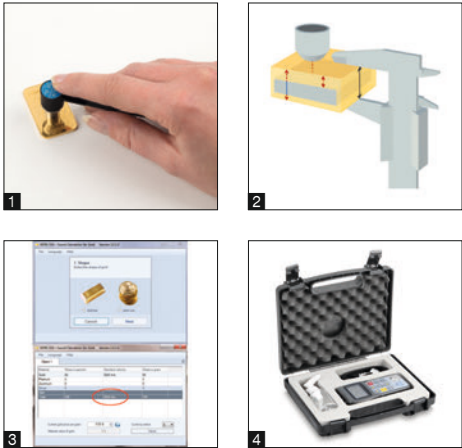
OPTION

SOFTWARE

ISO +4 DAYS

Model	Measuring range	Readout	Sensor	Sound velocity	Price excl. of VAT ex works €	Option	
						Factory Calibration	Certificate
SAUTER	mm	[d] mm		m/sec		KERN	€
TD 225-0.1US	1,2 – 225	0,1	5 MHz ø 8 mm	1000 – 9999	485,-	961-113	167,-

5



Ultrasonic measuring instrument for checking the authenticity of gold bars and coins

Features

- **1** You can use the TN-GOLD to determine whether gold or silver bars and coins are genuine or whether they contain a core of a different material
- The instrument measures the thickness of gold bars and gold coins using ultrasound
- Selectable measuring units: mm, inch
- **2** Process: Ultrasound waves are directed onto the test object using a sensor. The waves penetrate the test object, are then reflected from a surface opposite the object and then picked up again by the sensor. The measurement determined by this process will be compared with the material thickness as measured by a traditional calliper gauge. On the basis of the measurement given, false cores (Figure: grey) for example, those made of tungsten, lead, etc. can be easily identified, as the ultrasound reacts differently, compared with pure gold

- **3** SAUTER SSG software (included) can be used to calculate the sound velocity for various precious metal alloys. This makes it possible to determine whether coins or ingots contain false cores or whether they consist of one and the same material. Compatible with the following operating systems: Windows® 7/8/10
- Known additions in tested gold items – e.g. copper or silver – are compensated by the software
- In addition, the software determines the value of the gold item
- It is a test process which measures right through the whole bar or the whole coin without interference and thereby guarantees the highest level of certainty
- Internal memory for up to 20 files (with up to 100 values per file)
- Base plate for adjustment included
- Scope of delivery: Operating instructions, batteries, external measuring head (ø 6 mm) and ultrasound contact gel
- **4** Delivered in a robust carrying case

Technical data

- Measuring precision: 0,5 % of [Max] ± 0,04 mm
- Overall dimensions W×D×H 150×74×32 mm
- Battery operation, batteries standard (2×1.5 V AA), AUTO-OFF function to preserve the battery
- Net weight approx. 0,25 kg

Accessories

- Data transfer software, interface cable included, SAUTER ATU-04, **€ 120,-**
- USB/PC connection cable (USB-A/USB mini), SAUTER FL-A01, **€ 50,-**
- External measuring head, 7 MHz, ø 6 mm, for thin test materials: Measuring range 0,75–80 mm (steel), SAUTER ATU-US02, **€ 150,-**
- Ultrasound contact gel, refill pack, approx. 70 ml, SAUTER ATB-US03, **€ 35,-**

STANDARD						OPTION	

Model	Measuring range	Readout	Sensor	Sound velocity	Price excl. of VAT ex works €	Option	
						Factory Calibration Certificate	
SAUTER	mm	[d] mm		m/sec		KERN	€
TN GOLD 80	0,75 – 80	0,01	7 MHz ø 6 mm	1000 – 9999	770,-	961-113	167,-



5

Portable measuring device for ultrasonic material thickness testing

Features

- External measuring head
- Data interface USB standard (only for models with readout [d] = 0,01 mm)
- Scan mode (10 measurements per sec.) or single point measuring mode possible
- Internal memory for up to 20 files (with up to 100 values per file)
- Selectable measuring units: mm, inch
- Scope of delivery: Operating instructions, batteries, device-specific measuring head and ultrasound contact gel
- **1** Delivered in a robust carrying case

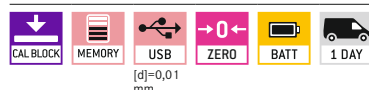
Technical data

- Measuring precision: 0,5 % of [Max] ± 0,04 mm
- Overall dimensions W×D×H 150×74×32 mm
- Battery operation, batteries standard (2×1.5 V AA), AUTO-OFF function to preserve the battery
- Net weight approx. 0,25 kg

Accessories

- Data transfer software, interface cable included, SAUTER ATU-04, **€ 120,-**
- External measuring head, 2,5 MHz, Ø 14 mm, for thick samples, in particular cast iron with rough upper surfaces: Measuring range 3–300 mm (steel), SAUTER ATU-US01, **€ 235,-**
- External measuring head, 7 MHz, Ø 6 mm, for thin test materials: Measuring range 0,75–80 mm (steel), SAUTER ATU-US02, **€ 150,-**
- External measuring head, 5 MHz, Ø 10 mm, SAUTER ATU-US09, **€ 150,-**
- External measuring head, 5 MHz, Ø 10 mm, transducer at an angle of 90°, SAUTER ATU-US10, **€ 150,-**
- External measuring head, 5 MHz, Ø 12 mm, for hot test materials: Measuring range (steel) 3–200 mm at temperatures of up to 300 °C, SAUTER ATB-US02, **€ 270,-**
- Ultrasound contact gel, refill pack, approx. 70 ml, SAUTER ATB-US03, **€ 35,-**

STANDARD



[d]=0,01 mm

OPTION



Model	Measuring range	Readout [d] mm	Sensor	Sound velocity m/sec	Price excl. of VAT ex works €	Option	
						Factory Calibration Certificate	
SAUTER	mm	mm				KERN	€
TN 80-0.1US	0,75 – 80	0,1	7 MHz Ø 6 mm	1000 – 9999	630,-	961-113	167,-
TN 230-0.1US	1,2 – 230	0,1	5 MHz Ø 10 mm	1000 – 9999	630,-	961-113	167,-
TN 300-0.1US*	3 – 300	0,1	2,5 MHz Ø 14 mm	1000 – 9999	740,-	961-113	167,-
TN 80-0.01US	0,75 – 80	0,01	7 MHz Ø 6 mm	1000 – 9999	700,-	961-113	167,-
TN 230-0.01US	1,2 – 230	0,01	5 MHz Ø 10 mm	1000 – 9999	700,-	961-113	167,-
TN 300-0.01US	3 – 300	0,01	2,5 MHz Ø 14 mm	1000 – 9999	800,-	961-113	167,-

1 * ONLY WHILE STOCKS LAST



5



Hand-held measuring device for ultrasonic material thickness testing in Echo-Echo principle

Features

- External measuring head
- USB data interface, as standard
- Scan mode (10 measurements per sec.) or single point measuring mode possible
- Internal memory for up to 20 files (with up to 100 values per file)
- Selectable measuring units: mm, inch
- Two measuring modes to determine material thickness:
 - Pulse-Echo mode
 - Echo-Echo mode
- Echo-Echo measuring: Determining the actual thickness of materials irrespective of any coating which might be present. In this way, the wall thickness of pipes, for example, can be determined in a non-destructive manner, without having to remove the coating and the measurement can be shown on the display, with the adjustment for the coating thickness already taken into account

- Echo-Echo measurements are only possible with the measuring head included as part of the delivery (SAUTER ATU-US12, see accessories)
- Scope of delivery: Operating instructions, batteries, external measuring head (ø 10 mm) and ultrasound contact gel
- Delivered in a robust carrying case

Technical data

- Measuring precision: 0,5 % of [Max] ± 0,04 mm
- Overall dimensions W×D×H 150×74×32 mm
- Battery operation, batteries standard (2×1.5 V AA), AUTO-OFF function to preserve the battery
- Net weight approx. 0,25 kg

Accessories

- Data transfer software, interface cable included, SAUTER ATU-04, € 120,-
- External measuring head, 5 MHz, ø 10 mm, for echo-echo measuring, SAUTER ATU-US12, € 345,-
- Ultrasound contact gel, refill pack, approx. 70 ml, SAUTER ATB-US03, € 35,-

- Note:** All following Pulse-Echo sensors can only be used in Pulse-Echo mode, not in Echo-Echo mode
- External measuring head, 2,5 MHz, ø 14 mm, for thick samples, in particular cast iron with rough upper surfaces: Measuring range 3–300 mm (steel), SAUTER ATU-US01, € 235,-
 - External measuring head, 7 MHz, ø 6 mm, for thin test materials: Measuring range 0,75–80 mm (steel), SAUTER ATU-US02, € 150,-
 - External measuring head, 5 MHz, ø 10 mm, SAUTER ATU-US09, € 150,-
 - External measuring head, 5 MHz, ø 10 mm, transducer at an angle of 90°, SAUTER ATU-US10, € 150,-

STANDARD

OPTION

Model	Measuring range Echo-Echo	Measuring range Pulse-Echo	Readout [d] mm	Measuring head	Sound velocity m/sec	Price excl. of VAT ex works €	Option	
							Factory Calibration	Certificate
SAUTER	mm	mm					KERN	€
TN 30-0.01EE	3 – 30	0,65 – 600	0,01	5 MHz ø 10 mm	1000 – 9999	980,-	961-113	167,-
TN 60-0.01EE	3 – 60	0,7 – 600	0,01	5 MHz ø 10 mm	1000 – 9999	1340,-	961-113	167,-



5

Premium ultrasonic thickness gauge

Features

- External measuring head for difficult-to-access measuring points
- 1 USB data interface, as standard
- Scan mode (10 measurements per sec.) or single point measuring mode possible
- Internal memory for up to 20 files (with up to 100 values per file)
- Measuring with tolerance range (limit-setting function): Upper and lower limiting can be programmed individually. The process is supported by an audible and visual signal
- Selectable measuring units: mm, inch
- Robust metal housing
- Base plate for adjustment included
- Scope of delivery: Operating instructions, batteries, device-specific measuring head and ultrasound contact gel
- 2 Delivered in a robust carrying case

Technical data

- Measuring precision: 0,5 % of [Max] ± 0,04 mm
- Overall dimensions W×D×H 130×76×32 mm
- Battery operation, batteries standard (2×1.5 V AA)
- Net weight approx. 0,50 kg

Accessories

- Software, interface cable included, SAUTER ATU-04TU, € 120,-
- External measuring head, 2,5 MHz, ø 14 mm, for thick samples, in particular cast iron with rough upper surfaces: Measuring range 3–300 mm (steel), SAUTER ATU-US01, € 235,-
- External measuring head, 7 MHz, ø 6 mm, for thin test materials: Measuring range 0,75–80 mm (steel), SAUTER ATU-US02, € 150,-
- External measuring head, 5 MHz, ø 12 mm, for hot test materials: Measuring range (steel) 3–200 mm at temperatures of up to 300 °C, SAUTER ATB-US02, € 270,-
- External measuring head, 5 MHz, ø 10 mm, SAUTER ATU-US09, € 150,-
- External measuring head, 5 MHz, ø 10 mm, transducer at an angle of 90°, SAUTER ATU-US10, € 150,-
- Ultrasound contact gel, refill pack, approx. 70 ml, SAUTER ATB-US03, € 35,-

STANDARD

CAL BLOCK

MEMORY

USB

TOL

ZERO

BATT

1 DAY

OPTION

SOFTWARE

ISO

+4 DAYS

Model	Measuring range	Readout	Measuring head	Sound velocity	Price excl. of VAT ex works €	Option	
						Factory Calibration Certificate	
SAUTER	mm	[d] mm		m/sec		KERN	€
TU 80-0.01US	0,75 – 80	0,01	7 MHz ø 6 mm	1000 – 9999	1310,-	961-113	167,-
TU 230-0.01US	1,2 – 230	0,01	5 MHz ø 10 mm	1000 – 9999	1310,-	961-113	167,-
TU 300-0.01US	3 – 300	0,01	2,5 MHz ø 14 mm	1000 – 9999	1410,-	961-113	167,-

1 ONLY WHILE STOCKS LAST

5



Material thickness gauge for ultrasonic material thickness testing in Echo-Echo principle

Features

- Dual measuring modes to determine material thickness:
 - Pulse-Echo mode (up to 600 mm)
 - Echo-Echo mode (up to 100 mm) Echo-Echo measurement: Determines the actual material thickness regardless of whether there is a coating on the base metal. In this way, the wall thickness of pipes, for example, can be determined without having to remove the coating. The measurement will be output, with the adjustment for the coating thickness taken into account
- Can be used on these materials, as well as others: Metals, plastics, ceramics, composite materials, epoxy, glass and other materials
- High-precision mode: Readout accuracy can be switched from 0.1 mm to 0.01 mm
- 1 Premium display: TFT colour display (320×240) with adjustable brightness, so that it can be read under the most varied lighting conditions
- Large internal data memory for up to 100 data sets each with 100 individual values
- Energy-saving operation with 2× AA batteries and an operating time of at least 30 hours, adjustable power-off time (sleep mode) and adjustable display switch-off (standby mode)

- 2 USB data output for easy data download from the device memory to the PC, as standard
- Triple-calibration mode: Automatic 0-point adjustment, 1-point adjustment at a specified material thickness, 2-point precision adjustment with two specified material thicknesses
- 3 different measurement modes: standard measuring (single measurement), scan mode (for continuous measurement and display of the ACTUAL value, the MIN and MAX value of the measuring sequence) and DIFF mode with calculation of the difference between the ACTUAL measured value and a manually defined nominal thickness
- Limit alarm function: Upper and lower limit adjustable. The measurement process is supported by an audible and visual signal
- Menu languages: DE, EN, FR, ES, IT
- Date and time can be adjusted. It is possible to store the measurement values with a time stamp
- Standard measuring probe SAUTER ATU-US12 included with delivery
- Scope of delivery: Operating instructions, batteries, external measuring head (ø 10 mm) and ultrasound contact gel

- 3 Delivered in a robust carrying case
- Interface cable SAUTER FL-A01 (for use of the software) included

Technical data

- Measuring precision: 0,4 % of [Max] ± 0,04 mm
- Overall dimensions W×D×H 31×69×130 mm
- Battery operation, batteries standard (2×1.5 V AA), AUTO-OFF function to preserve the battery
- Net weight approx. 0,25 kg

Accessories

- External measuring head, 5 MHz, ø 10 mm, for echo-echo measuring, SAUTER ATU-US12, € 345,-
- Ultrasound contact gel, refill pack, approx. 70 ml, SAUTER ATB-US03, € 35,-
- BalanceConnection software for flexible measured value recording or transmission, compatible with Microsoft® Excel, Access and other applications, scope of delivery: 1 CD, 1 license, KERN SCD-4.0, € 210,-
- Other sensors on request
- Further details and plenty of further accessories see *internet*

STANDARD

OPTION

Model	Measuring range		Readout	Sensor	Sound velocity	Price excl. of VAT ex works €	Option	
	Echo-Echo	Pulse-Echo					Factory Calibration	Certificate
SAUTER	mm	mm	[d] mm		m/sec		KERN	€
TO 100-0.01EE	3 - 100	0,7 - 600	0,01	5 MHz ø 10 mm	200 - 19999	1490,-	961-113	167,-

The oldest Precision Balance Factory in Germany

SAUTER GmbH

c/o KERN & SOHN GmbH

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- Operating Instructions
- Descriptive Image and Video Material
- Useful KERN Services
- Technical Glossary
- KERN Dealer Portal
- Practical Filter and Search Functions



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