



Coating Thickness Gauge

JCT

JCT 100



PROFESSIONAL MEASURING

Original version

Operating Instructions for Coating Thickness Gauge

Version 1.1
2026-03
en
JCT-BA-e-2611

de

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are available online at

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SAUTER

SAUTER JCT**Coating Thickness Gauge****Operating Instructions for Coating Thickness Gauge**

Version 1.1 2026-03 Original version

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1 Technical Data

Function	Range	Resolution	Description
Range	0–2000 μm 0–78.7 million		
Resolution	0–99.9 μm	0.1 μm	
	100–2000 μm	1 μm	
	0–4.99 million	0.01 million	
	5.0–78.7 million	0.1 million	
Accuracy	$\pm(2\%H+2) \mu\text{m}$		
	$\pm(2\%H+0.08) \text{ mil}$		
Wireless data connection	5 min		
Transmission distance	$\geq 10 \text{ m}$		
Probe measuring force	0.3–1.5 N		Probe measurement force range
Display	Color display		2" TFT color screen
Automatically rotating screen	Based on the built-in gravity sensor		4 directions: 0°, 90°, 180°, and 270°
Conversion to units	$\mu\text{m}/\text{mil}$		Metric/Imperial unit conversion
LED alarm	The LED lights up in the corresponding color when the value exceeds the set alarm range.		
Audio alarm	A corresponding beep sounds during measurements, alarms, and button presses.		The buzzer must be turned on.
Limit value setting	0–2000 μm		
Measurement modes	Single/continuous		
Statistical measurement	MAX/MIN/AVG		
Matrix identification modes	Automatic/Manual		
Voice transmission	Voice Broadcast for Measurement Values		The voice transmission function must be turned on.

Flashlight	Easy to use in dark environments	
USB communication	Upper computer communication	Export of stored data via the host computer
Data storage	3,300 data points (55 groups * 60)	
Backlight brightness	5 levels	
Auto-off	5 minutes	
Low battery indicator	Low battery indicator at 3.4V±0.2V	
Power	3.7V 1300mAh lithium battery	
Operating environment	0–40°C, ≤80% RH	
Storage environment	-20~60°C ≤75% RH	

2 Declaration of Conformity

The current EC/EU Declaration of Conformity can be found online at:

<https://www.kern-sohn.com/shop/de/DOWNLOADS/>

3 Device Overview

3.1 Scope of Delivery

- Coating Thickness Gauge
- Operating instructions
- Storage box
- Standard Coating thickness on sheet metal s
- Ferrous matrix
- Non-ferrous matrix
- Sensor protective cover
- Wrist strap
- USB cable
- 3.7V 4.81Wh rechargeable lithium battery

3.2 Components



Description	Function
1	LED warning light
2	LCD
3	Power/Flashlight
4	Confirm/Menu
5	Repeat/Delete
6	Down/Car Mode
7	Up/Histogram
8	Sensor
9	Wrist strap buckle
10	USB/charging port

11	Flashlight
12	Speaker

4 Basic Information (General)

4.1 General Information on Warning Labels

This user manual uses warning notices to alert you to potential personal injury or property damage in specific situations.

Signal word	Description
DANGER	Failure to follow this warning will result in serious injury, permanent impairment (e.g., loss of a limb), or death of the user or third parties
WARNING	Failure to follow this warning may result in serious injury, permanent impairment (e.g., loss of a limb), or death of the user or third parties
CAUTION	Failure to follow this warning may result in minor injuries or temporary impairment of the user or third parties (e.g., minor cuts)
NOTE	Failure to follow this notice may result in property damage

Symbols in warning notices :

Symbol	Meaning
Warning symbol	Warning signs alert you to hazards that could potentially cause personal injury. The symbol indicates the type of hazard.
	Indicates general hazards or a hazardous area
	Warning of electrical voltage
	Warning of flammable substances
	Warning of flammable substances

Symbol	Meaning
Mandatory signs	Mandatory signs prescribe actions you must take to prevent personal injury or property damage. The symbol indicates the necessary actions or items to prevent damage.
	Indicates a required action

4.2 Intended use

The JCT 100 is an advanced high-performance coating thickness gauge capable of measuring coating thickness on both ferrous and non-ferrous metallic substrates. This device features high precision, stable and reliable performance, and non-destructive measurement, among other characteristics. It includes functions such as automotive mode, voice guidance, and an LED flashlight. It is an essential tool for automotive manufacturing, sales, appraisal, metalworking, painting, inspection, and other industries. It is widely used in manufacturing, metalworking, aerospace, shipping, high-speed rail, scientific research, quality control, and other fields.

The product is based on the principles of electromagnetic induction and eddy current measurement.

The principle of electromagnetic induction measurement involves measuring the coating thickness based on the magnitude of the magnetic flux flowing from the sensor through the non-ferrous magnetic coating into the ferromagnetic matrix. The symbol is Fe. It can measure non-conductive or conductive coatings on magnetically permeable metals such as iron and steel (e.g., galvanized steel sheet).

The principle of eddy current measurement is to measure the coating thickness based on the difference in the eddy current generated by an alternating magnetic field on a non-magnetic metal matrix (e.g., aluminum). The symbol is NFe. It can measure non-conductive coatings on non-magnetic metal materials such as aluminum and copper. The matrix must be made of metal, and the coating must not conduct electricity.

If you have any questions, please contact SAUTER or visit our website at www.sauter.eu.

4.3 Improper Use

The measuring device is not intended for medical use.

Do not use or store the measuring device in environments with high temperatures, high humidity, flammable or explosive substances, and strong magnetic fields. This device is not waterproof and cannot be used in environments with high humidity or water mist. Prevent liquids, powders, or solid foreign objects such as water and dust from entering the measuring opening and the housing.

Unauthorized structural modifications, additions, or alterations to the device are prohibited. Unauthorized modifications may impair the accuracy of the device or even cause irreversible damage to it.

4.4 Warranty

The warranty is void if

- Failure to follow our instructions in the operating manual
- Use outside the described applications
- Modification or opening of the device
- Mechanical damage and damage caused by media, liquids, natural wear and tear
- Improper setup or electrical installation
- Improper assembly or electrical installation

5 Basic warnings and safety instructions

5.1 Follow the instructions in the operating manual



Carefully read the operating instructions before commissioning/using the device, even if you already have experience with SAUTER devices. Always keep the instructions in close proximity to the device.

5.2 Staff Training

The device may only be used by persons who have read and understood the operating instructions, particularly the Safety chapter.

5.3 Safety

⚠ WARNING	
	Read all safety warnings and instructions. Failure to follow the safety instructions and guidelines can result in electric shock, fire, and/or serious injury. Keep all safety instructions and guidelines for future reference. • Make sure that no people or objects are ever located under the load, as they could be injured or damaged! • Do not modify the design of the measuring device. This can lead to incorrect measurement results, safety hazards, and damage to the measuring device • Do not operate the device in or place it in potentially explosive rooms or areas. • Do not operate the device in a corrosive atmosphere. • Do not submerge the device in water. Do not allow liquids to enter the interior of the device. • The device must only be used in a dry environment and under no circumstances in rain or at relative humidity levels exceeding the operating conditions. • Protect the device from prolonged direct sunlight. • Do not expose the device to strong vibrations. • Do not remove any safety signs, stickers, or labels from the device. Keep all safety signs, stickers, and labels in a legible condition • Do not open the device

⚠ WARNING



Risk of injury from electric shock!

There is a risk of injury from electric shock when cleaning the electrical system with wet cloths.

- Turn off the power supply using the main switch.
- Unplug the power cord.
- Do not use wet cleaning cloths.
- Always use only dry or damp cloths.

⚠ WARNING



Choking hazard!

Do not leave packaging materials lying around carelessly. They could become dangerous toys for children.

- This device is not a toy and should not be left within reach of children.
- This device can pose a hazard if used improperly or for purposes other than intended by untrained persons! Pay attention to personnel qualifications !

⚠ WARNING



Improper use of rechargeable or non-rechargeable batteries can cause them to catch fire, explode, emit toxic fumes, or leak corrosive liquid. Therefore, the following applies to all rechargeable and non-rechargeable batteries:

- Protect from fire and heat.
- Never expose to high pressure or microwaves.
- Do not allow them to come into contact with liquids or chemicals.
- Never allow the electrical contacts of rechargeable and non-rechargeable batteries to come into contact with metal objects or short-circuit.
- Never modify rechargeable batteries, batteries, or chargers.
- Batteries must never be recharged.
- Never use or charge a defective, damaged, or deformed battery.
- Do not use power adapters that do not meet the technical specifications. Otherwise, the battery's service life may be shortened, or an electric shock may occur, which could damage the device or cause a fire.
- If the device is not used for an extended period, disconnect the external power supply to prevent the device from overheating and causing a fire.
- If you do not use the device for an extended period, you should charge it every two weeks; otherwise, the internal battery may be slightly damaged, making it impossible to use the device again

CAUTION

- Keep a safe distance from heat sources.
- Do not shine the flashlight directly into your eyes.

- Do not use the device in environments with high humidity or water mist.

 NOTE

- To prevent damage to the device, do not expose it to extreme temperatures, extreme humidity, or moisture.
- Do not use harsh cleaners, abrasives, or solvents to clean the device.

6 Transport and Storage

Note

Improper storage or transport of the device may result in damage. The standard thickness reference plates are high-precision accessories that affect the accuracy of the measuring device and must be stored properly to prevent scratches, corrosion, bending, and surface deformation. The metal dies must also be properly preserved to prevent scratches, rust, oxidation, and surface deformation. Follow the instructions for transporting and storing the device.

Transport

When transporting the device, use the practical storage box included in the delivery to protect the device from external influences.

Storage

When the device is not in use, observe the following storage conditions:

- dry and at a temperature between , protected from frost and heat
- protected from dust in the storage box
- the storage temperature complies with the technical specifications
- Please use the sensor protective cover and keep the sensor clean and in good condition so that dust, oil, and other factors do not affect measurement accuracy.

Packaging/Return Shipping

Returns are only possible within the limits of the general terms and conditions. Keep all parts of the original packaging for any necessary return shipping.

- Only the original packaging may be used for return shipping.
- Before shipping, disconnect all connected cables and remove any loose or movable parts.
- Reattach any transport safety devices that were provided.
- Secure all parts against slipping and damage.

7 Unpacking and Setup

7.1 Unpacking



In the event of a return, please follow the instructions in the chapter “Packaging/Return Shipping”

Upon receipt of the device, check immediately to ensure that no transport damage has occurred and that the outer packaging, the housing, other parts, or even the device itself have not been damaged. If any damage is visible, please notify SAUTER GmbH immediately.

7.2 Initial Setup

When switching on the measuring device, a self-test is required for initialization. When switching on the measuring device, please do not hold the sensor near metal objects, otherwise the measuring device will be rendered unusable.

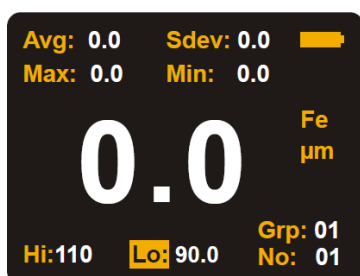
8 Menu

8.1 Menu Icons

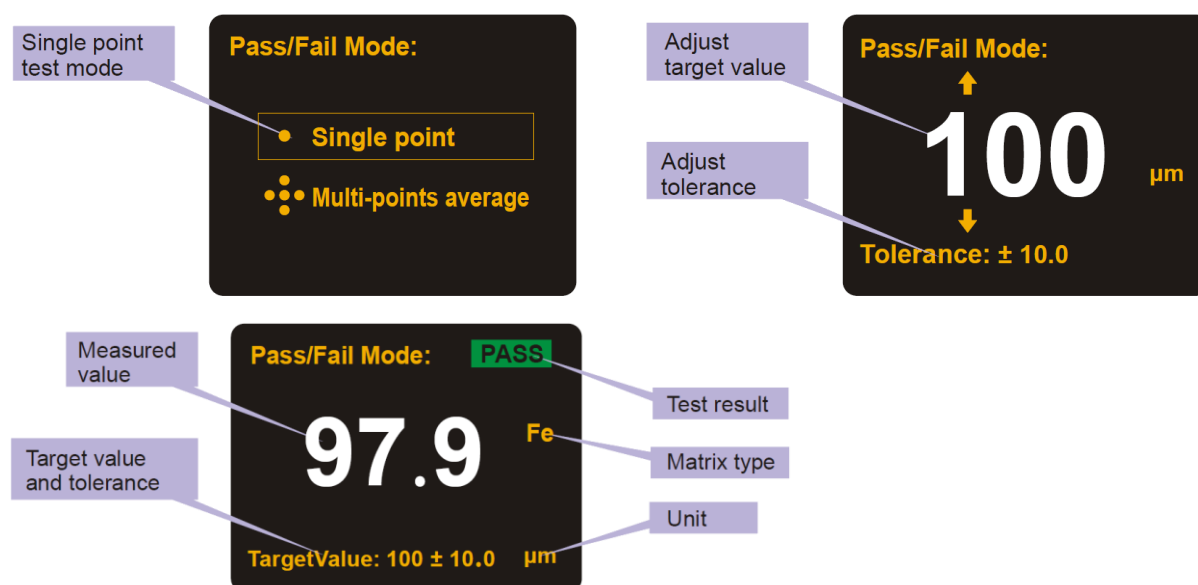
	Automatic screen rotation		Units		Probe Modes
	Storage Location		Measurement modes		Upper limit
	Lower limit		LED alarm		Voice transmission
	Calibration modes		Languages		Buzzer
	Backlight brightness		Restore Factory Settings		

Note: If the icon is white, users can adjust the settings. If the icon is brown, users can only browse the settings.

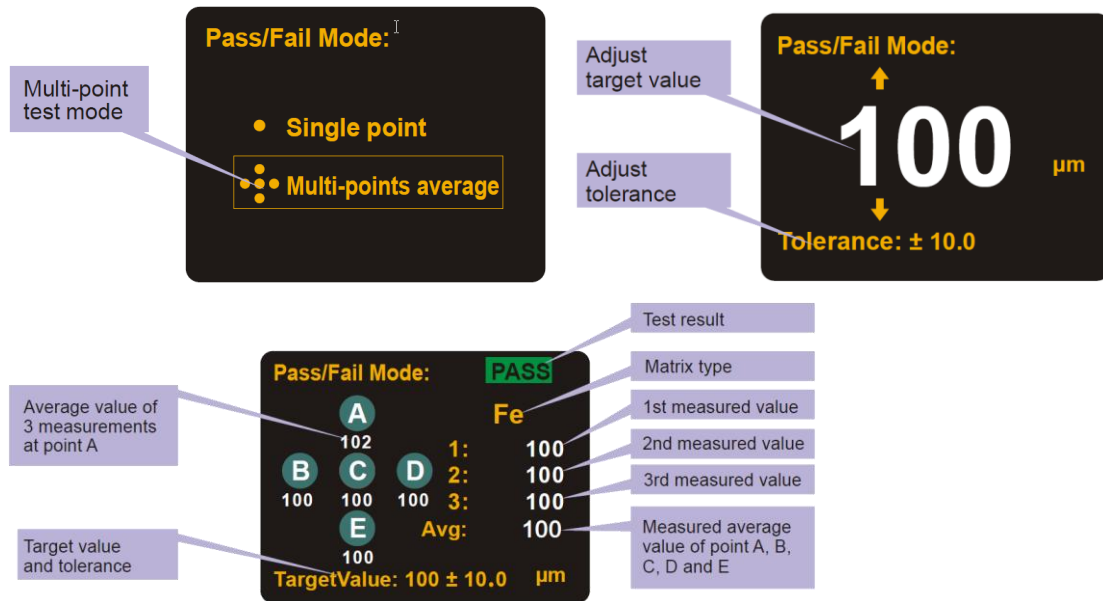
8.2 Main interface



8.3 Single item



8.4 Several points



9 Basic operation

9.1 Turning the device on/off

Press and hold  to turn the meter on/off.

9.2 Measurement

Note: Keep the probe away from metal objects before turning on the device.

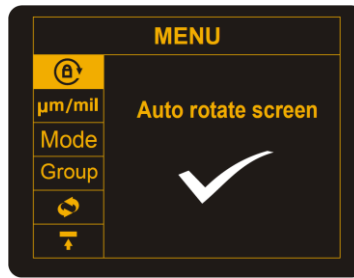
- Press and hold  to turn on the device. After initialization, the main interface appears
- If the product has not been used for a long time or the operating environment has changed, a two-point calibration is required before use
- First, press the probe vertically against the object to be measured. The value displayed on the LCD screen at this point is the estimated coating thickness
- Refer to this estimated value and select a standard coating thickness gauge from the accessories that most closely matches this value to prepare for two-point calibration
- If possible, select a calibration target whose thickness or material is similar to the object being measured and which has no coating. If the above-mentioned target cannot be found, the standard target from the accessories can be selected as the calibration target (due to differences in material and thickness, the measurement results may be distorted)
- For information on two-point calibration, see the "Calibration" chapter.
- Once the two-point calibration has been completed and verified repeatedly, the coating thickness of the object can be measured.
- When measuring, select 3 to 5 measurement points evenly distributed across the surface of the object, take 5 measurements at each point, and use the average of the 5 measurements as the displayed value for that point.
- After the display values of the 3 to 5 measurement points have been measured, the average of the values should be taken as the reference value for the object's layer thickness.

Note:

- Hold the measuring device perpendicular to the object to be measured and press the measuring device sensor lightly against the object's surface to take a measurement. It is necessary to keep the sensor in close contact with the object's surface.
- If the measured reading is greater than 2000 μm , "OL" will appear on the screen to indicate that the measurement range has been exceeded.
- If the measured reading is greater than 2200 μm , the meter will not respond.

9.3 Menu

On the main interface, briefly press " " to open the menu:



9.3.1 Automatic Screen Rotation

In the menu, press or to select the automatic screen rotation icon , then briefly press to enter the settings interface. Press or to enable or disable the automatic rotation function, and briefly press to confirm or to exit.

Note: The meter has a built-in gravity sensor that allows the user to read the screen content from various angles (0°, 90°, 180°, and 270°). When the auto-rotate function is turned off, the icon appears in the upper right corner of the screen.

9.3.2 Length Unit

In the menu, press or to select the length unit icon (μm/mil), then briefly press to open the settings interface. Press or to select μm or mil, and briefly press to confirm or exit.

9.3.3 Probe Mode

In the menu, press or to select the probe mode icon, then briefly press to open the settings screen. Press or to select Auto/NFe/Fe mode, and briefly press to confirm or exit.

Automatic mode: In this mode, the matrix type of the measurement object (Fe or NFe) is automatically detected. The sensor switches to the appropriate operating mode depending on the matrix type. Fe mode: The sensor switches to electromagnetic induction operating mode. NFe mode: The sensor switches to eddy current operating mode.

9.3.4 Data storage location

In the menu, press or to select the data storage icon "Group," then briefly press to open the settings interface. Press or to select the group number, and briefly press to confirm or exit.

Note: There are 55 groups, and 60 data points can be stored for each group.

9.3.5 Continuous Measurement

In the menu, press  or  to select the continuous measurement icon , then briefly press  to access the settings screen. Press  or  to turn continuous measurement mode on or off, and briefly press  to confirm or  to exit.

Note: When this mode is enabled, the device continues to measure until it is turned off.

9.3.6 Upper Limit

In the menu, press  or  to select the upper limit icon , then briefly press  to access the settings interface. Briefly press  or  to add/subtract 1 from the individual digit of the upper limit, and press and hold to add/subtract 1 from the tens place. Briefly press  to confirm or  to exit.

Note: If the measured value exceeds the upper limit and the LED alarm is enabled, the LED will flash yellow.

9.3.7 Lower Limit

In the menu, press  or  to select the lower limit icon , then briefly press  to enter the settings interface. Briefly press  or  to add/subtract 1 from the individual digit of the lower limit, and press and hold to add/subtract 1 from the tens place. Press  briefly to confirm or  to exit.

Note: If the measured value is below the lower limit and the LED alarm is on, the LED light flashes red.

If the measured value is between the upper and lower limits and the LED alarm is enabled, the LED light flashes green.

9.3.8 LED Alarm

In the menu, press  or  to select the LED alarm icon , then briefly press  to open the settings interface. Press  or  to turn the LED alarm on or off, and briefly press  to confirm or  to exit.

9.3.9 Voice Transmission

In the menu, press  or  to select the voice transmission icon , then briefly press  to open the settings interface. Press  or  to enable or disable the voice transmission function, and briefly press  to confirm or  to exit.

9.3.10 Calibration Mode

In the menu, press  or  to select the calibration mode icon  , then briefly press  to open the settings interface. Press  or  to select a calibration mode (single-point or two-point), and briefly press  to confirm or  to exit.

Note: The two-point calibration mode is more commonly used than the single-point mode.

9.3.11 Language

In the menu, press  or  to select the language selection icon  , then briefly press  to enter the settings interface. Press  or  to select English or Chinese, and briefly press  to confirm or  to exit the menu.

9.3.12 Buzzer

In the menu, press  or  to select the buzzer icon  , then briefly press  to access the settings screen. Press  or  to turn the buzzer on or off, and briefly press  to confirm or  to exit.

When this feature is enabled and the meter receives a reading in normal measurement mode, the buzzer sounds.

9.3.13 Backlight Brightness

In the menu, press  or  to select the  icon for backlight brightness, then briefly press  to access the settings screen. Press  or  to adjust the brightness, and briefly press  to confirm or  to exit.

9.3.14 Restore Factory Settings

In the menu, press  or  to select the  icon for restoring factory settings, then briefly press  to open the settings interface. Press  or  to enable or disable the factory reset function, and briefly press  to confirm or exit.

9.4 Calculated values

Four values are automatically calculated and displayed at the top of the screen: Avg, Min, Max, Sdev. In the main interface, press and hold the " " button for 2 seconds to clear the currently calculated values.

Note: All stored data will be deleted when the user performs the above procedure.

9.5 Quick Test Mode

On the main interface, press and hold  to enter Quick Test Mode. Press  or  to select Single-Point Test or Multi-Point Test, and briefly press  to confirm or  to exit.

Note: The quick test mode is primarily used for measuring the coating thickness of automobiles and other industrial products.

9.5.1 Single Point

- Press  or  to set the target thickness value, then press  to confirm.
- Press  or  to set the tolerance, and press briefly to enter single-point quick test mode;
- Measure the coating thickness of the test object;
- The screen immediately displays the measured value and the test result ("PASS" or "FAIL");
- Press  briefly to return, or press and hold  to exit single-point quick test mode.

9.5.2 Multiple Points

- Press  or  to set the target thickness value, then press  to confirm;
- Press  or  to set the tolerance, and briefly press  to enter multi-point quick test mode;
- Measure the coating thickness of the test object. Take 3 measurements near the same position, and
- the meter calculates the average of the 3 readings as the value for Point A;
- Change the position and take 3 measurements near the new position. The meter calculates the average of
- three times the value of Point B;
- The measurement procedures for points C, D, and E are the same as above;
- Once the measurement is complete, the screen immediately displays the average value of these 5 points
- and the test result ("PASS" or "FAIL");
- Press  briefly to return, or press and hold  to exit the multi-point quick test mode.

9.6 Troubleshooting

If errors occur, select "Restore Factory Settings" from the menu.

10 Calibration

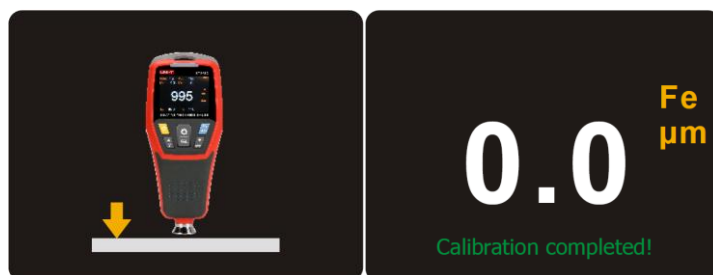
On the main interface, press and hold  to enter the selected calibration mode.

Note: The selected calibration mode depends on the setting in Chapter 9.3.10.

Calibration modes	Icons	Description
Zero-point calibration		Place the sensor on an uncoated metal matrix
Two-point calibration		The standard coating thickness sheet and uncoated matrix are stacked together for calibration, and more accurate measurement results can be got.

10.1 Zero-point calibration

- Place the gauge vertically on the uncoated die, as shown in the following figure
- Pick up the measuring device after 2 seconds. The screen displays the value 0.0, as shown in Figure 2, and the measuring device automatically returns to the main interface;
- Zero-point calibration is complete.



10.2 Two-point calibration

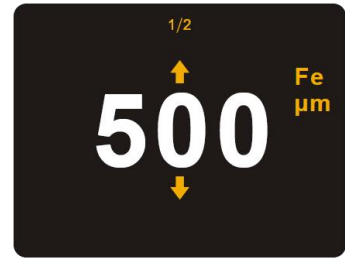
- Stack the standard layer thickness (e.g., 500 μm) and the uncoated matrix together for calibration, as shown in Figure 1.
- Lift the gauge after 2 seconds, and the measured value will appear on the screen, as shown in Figure 2
- Press  or  to adjust the measured value so that it matches the thickness value of the standard coating thickness sheet, as shown in Figure 3;
- Press  to confirm, or press to cancel the calibration;
- Place the gauge vertically on the uncoated die, as shown in Figure 4;
- Pick up the meter after 2 seconds. The screen will display the value 0.0, as shown in Figure 5, and the meter will automatically return to the main interface;
- The two-point calibration is complete.



1



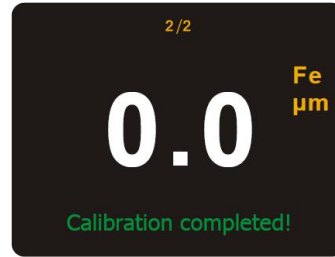
2



3



4



5

11 Battery Operation / Power Supply

WARNING



Risk of fire or explosion due to improper charging or a defective battery



Fire or explosion can cause serious injury

- ⇒ Be sure to follow the instructions regarding rechargeable and non-rechargeable batteries in the Safety chapter.
- ⇒ Observe national and international transport regulations for devices with a built-in lithium-ion battery.
- ⇒ Do not replace defective batteries yourself! Contact SAUTER or an authorized dealer directly.

This device is equipped with a built-in rechargeable lithium-ion battery. Please use the original battery and do not substitute other batteries to avoid damage to the device or other malfunctions.

- Nominal voltage 3.7 V
- Capacity 1300 mAh

The battery should be fully charged before first use. Use the included original USB cable for this purpose.

If the low battery symbol " " appears on the LCD display, charge the product in a timely manner

12 Maintenance, Care, and Disposal



Disconnect the device from the power supply before performing any maintenance, cleaning, or repair work.

12.1 Cleaning

Clean the device with a damp, soft, lint-free cloth. Make sure that no moisture penetrates the housing. Do not use sprays, solvents, alcohol-based cleaners, or abrasive cleaners; use only clean water to dampen the cloth to avoid damaging the measuring device

12.2 , and Repair

Do not make any modifications to the device or install any replacement parts. Contact the manufacturer for repairs or device inspections.

12.3 Disposal



Old devices and accessories do not belong in household waste.

The operator must dispose of the packaging and device in accordance with applicable national or regional laws at the user's location.

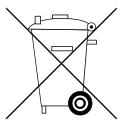
The device consists of various components and materials, such as:

- Electronic components (circuit boards, electrical wires)
- Plastic (housing)
- Metal

Improper disposal of the device can have harmful effects on people and the environment.

Proper and environmentally sound disposal can prevent harmful effects and allow for the recovery of raw materials.

Disposal of rechargeable and non-rechargeable batteries:



Rechargeable and non-rechargeable batteries do not belong in household waste.

The operator must dispose of rechargeable and non-rechargeable batteries in accordance with applicable national or regional laws at the user's location.

13 Battery Act

Note in accordance with the Battery Act (BattG):

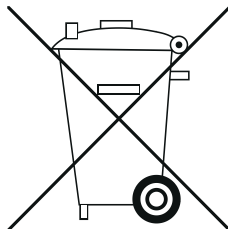
INFORMATION



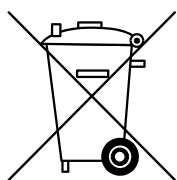
- The following information applies to Germany.

In connection with the sale of batteries and rechargeable batteries, we, as a retailer, are required by the Battery Act to inform end consumers of the following:

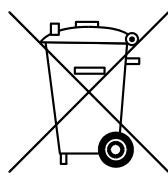
- End consumers are legally obligated to return used batteries and rechargeable batteries.
- Batteries and rechargeable batteries can be returned free of charge to municipal collection points or retailers after use. The batteries/rechargeable batteries must have reached the end of their normal useful life; otherwise, precautions must be taken to prevent short circuits.
- The return option is limited to batteries and rechargeable batteries of the type we currently carry or have carried in our product range, as well as to the quantity that end consumers typically dispose of.
- A crossed-out trash can symbol means that you must not dispose of the batteries or rechargeable batteries in household waste under any circumstances. Old batteries or rechargeable batteries may contain hazardous substances that can harm people and the environment if not disposed of properly.



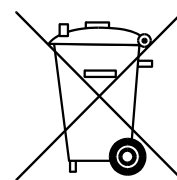
- Batteries containing hazardous substances are marked with a symbol consisting of a crossed-out trash can and the chemical symbol (Cd = cadmium, Hg = mercury, or Pb = lead) of the heavy metal that determines their classification as containing hazardous substances.



Cd



Hg



Pb