

School balance Model Series: EHA

Type Series: TEHA-A



Operating instructions (Translation of the original operating instructions)

Version 2 (2026-06) - en_GB

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TEHA-A-BA-e-2620

Supplemental directives

Read this document carefully and completely before using the device and observe the safety precautions contained therein. The manufacturer is not liable for damage resulting from disregarding the instructions or improper use.

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1 Introduction

1.1 Validity

This document is an integral part of the product. It is valid for the product versions listed below.

You can recognise which product version your product is on the type plate. The following illustration is an example. The real type plate may differ from the illustration. The model number is shown in <Model> and the type item no. is shown in <Type>.

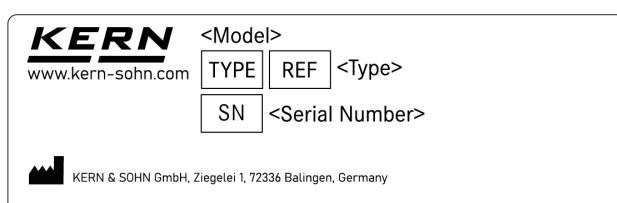


Fig. 1: Example of the type plate (real type plate may be different)

Model	Item no. / Type
EHA 500-2	TEHA 500-2-A
EHA 500-1	TEHA 500-1-A
EHA 1000-1	TEHA 1000-1-A
EHA 3000-0	TEHA 3000-0-A
EHA 3000-1	TEHA 3000-1-A

1.2 Document purpose

This document provides the user with descriptions for the safe and efficient use of the product. The document must be carefully read and understood by all users before the product is used.

1.3 Other versions of the document

The original version of this document was created in German. We reserve the right to make subsequent changes to the product documentation. The current version and other language versions of the document can be found on our website ➔ www.kern-sohn.com.

You can find more interesting information about our products in the download area:

- Technical data sheets
- Product brochures and catalogues

2 General safety instructions

Read this document thoroughly and carefully before using the device and observe all safety precautions contained herein to avoid bodily injury and damage to property. Keep this document in a place that is always easily accessible so that it is quickly available when needed.

2.1 Meaning of the warnings

Warnings warn you of possible safety risks during certain activities. Read the warnings in full and follow the instructions. Failure to do so may result in injury, damage to property, environmental damage, malfunctions or incorrect results.

Meaning of the signal words

Signal word	Meaning
DANGER	This combination of symbol and signal word indicates an immediate dangerous situation that will result in death or serious injury if it is not avoided.
WARNING	This combination of symbol and signal word indicates a possible dangerous situation that can result in death or serious injury if it is not avoided.
NOTICE	This combination of symbol and signal word indicates a possible dangerous situation that can result in material and environmental damage if it is not avoided.

Signal word	Meaning
ENVIRONMENT	This combination of symbol and signal word indicates a possible dangerous situation that can result in material and environmental damage if it is not avoided.

Meaning of the warning signs

Warning signs	Type of danger
	Warning – danger zone.
	Warning – dangers due to batteries.
	Warning – high-voltage.

2.2 Safe handling of packaging material

Always keep packaging material away from children and animals to avoid the danger of suffocation.

2.3 Safe handling of electrical devices

Safe handling of power supply units and power supplies

Improper handling of mains-powered devices or the use of damaged or unsuitable power supply units or mains cables can lead to life-threatening injuries. Therefore, please observe the following instructions:

- If the electrical equipment is defective (e.g. damage to the power supply unit or mains cable, deformation, smoke, etc.), the device must not be used. If you notice any damage, disconnect the device from the power supply immediately and contact your dealer or the technical service of KERN & SOHN.
- Only connect the device to a properly installed and undamaged power supply. The information on the device (type plate) and the mains voltage at the place of use must be identical.
- To prevent short circuits, ensure that no moisture (e.g. steam or liquids) is present near the electrical equipment at the place of use.
- Only use original power supply units and connecting cables. If you need a replacement, please contact your dealer or the technical service of KERN & SOHN.
- Any work on the electrical equipment of the device may only be carried out by the technical service of KERN & SOHN.
- The mains cable must not be pinched or kinked and must be laid in such a way that it does not pose a tripping hazard.
- In case of an emergency, it must be possible to disconnect the device from the power supply without any problems.

Safe handling of batteries and rechargeable batteries

Batteries and rechargeable batteries may catch fire, emit toxic fumes, release corrosive liquids or explode if not used correctly. Therefore, observe the instructions in the following section.

Damage

- Do not use damaged or deformed batteries and rechargeable batteries.
- Protect batteries and rechargeable batteries from mechanical damage, heat, cold, water and chemicals.
- Protect batteries and rechargeable batteries from short circuits. Never touch the terminals with metal objects.
- When inserting batteries and rechargeable batteries, ensure that the polarity (positive and negative terminals) is correct and that you are using suitable battery types. Only use types recommended by the manufacturer.
- Batteries and rechargeable batteries must not be modified.

Transport

- When transporting batteries or rechargeable batteries, the applicable national and international regulations must be observed. Ensure that batteries or rechargeable batteries are protected against short circuits and damage. Do not ship defective batteries or devices containing defective batteries.

Storage

- Remove the batteries or rechargeable batteries if the device is not to be used for a longer period of time.

- Protect batteries and rechargeable batteries from short circuits (e.g. by covering the terminals) and store them separately by type. Preferably use a fireproof container for storage.
- Store batteries and rechargeable batteries at room temperature in a dry place. Avoid extreme cold or extreme heat in the storage environment. Also observe the recommended ambient temperature stated in the technical data.

Battery fluid

- Avoid contact between leaking fluid and skin, eyes or clothing.
- Wear protective clothing/equipment when removing a defective battery and ensure the room is well ventilated.
- Clean skin or clothing that has come into contact with battery fluid thoroughly with soap suds and then rinse with clean water.
- In case of contact with eyes, rinse immediately with clean water and then get medical help.

Disposal

- Do not dispose of batteries and rechargeable batteries in household waste, but at collection points or recycling centres.
- Ensure that the poles are not short-circuited during disposal.
- Further information on disposal: ➔ *'Disposal of batteries and rechargeable batteries' on page 28*

2.4 Intended use

Intended use of the scale

This scale is used to determine the weight of items to be weighed. This scale is a "non-automatic weighing instrument". This means that the material to be weighed must be placed man-

ually, with care and as centred as possible on the weighing plate. Once a stable weight value is displayed, the result can be read.

2.5 Improper use

Improper use of the scale

- Our scales with strain gauges are not intended for use in dynamic weighing processes.

However, the scales can also be used for dosing applications after checking the individual area of application and the accuracy requirements.

You can find out whether your scale is equipped with strain gauge technology by checking the technical data. ➔ *Chapter 14.1 'Technical data' on page 32*

- To prevent damage, avoid impact loadings and do not exceed the maximum load limit (Max.) of the scale.
- Any modification to the design of the scale will invalidate the warranty and may lead to incorrect weighing results and safety-related defects. Such modifications are therefore prohibited.
- The scale may only be used in accordance with the specifications described in this document.
- The scale is not designed for weighing people. It is not suitable for medical purposes.

2.6 Obligations of the operating company

It is the responsibility of the operating company to comply with the specifications described in this document as well as with legal and official regulations at the place of use. Any failure to comply with the safety precautions and instruc-

tions described in this document is considered improper use. KERN & SOHN is not liable for any damage resulting from improper use.

2.7 Required user qualifications

- No special qualifications are required for setting up, operation, handling and care of the device. The operating instructions must be read in order to acquire the necessary knowledge for these activities.

2.8 Requirements for the environment of use

In addition to the environmental information in the technical data, observe the following requirements for the environment of use:

- The device must not be operated in environments where there is a risk of corrosion.
- The device must be protected from excessive humidity, steam, spray and dust.
- The device must be protected from excessive moisture caused by condensation. Condensation can occur if the device is moved from a cold environment to a much warmer environment. If such a change of environment cannot be avoided, allow the device to acclimatise for approx. 2 hours before starting it up.
- The device must not be used in environments with aggressive chemicals, gases or liquids.
- The device must not be used in potentially explosive atmospheres or environments where explosives are present.
- The device must not be used in environments subject to severe impacts or vibrations.
- The device must not be exposed to extreme heat or strong temperature fluctuations (e.g. by placing the device next to a heater or in direct sunlight).
- Protect the device from direct draughts.

- Select a location with a stable power supply.
- When choosing the place of use, consider the surrounding environment. Electromagnetic fields and electrostatic charges can affect the weighing result or cause damage.

3 Description of the device

3.1 Overview of the device

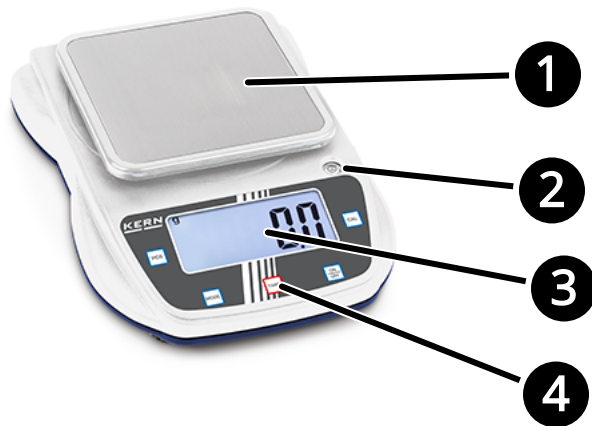


Fig. 2: Picture shows model with square weighing plate

- 1 Weighing plate
- 2 Level indicator
- 3 Display
- 4 Keyboard



Fig. 3: Back side

- 5 Mains adapter connection



Fig. 4: Bottom side

- 6 Battery compartment
- 7 Levelling foot

3.2 Overview of the keys

Key	Designation in the text	Short keystroke	Long keystroke
	[ON/OFF]	■ Switch on the scale	■ Switch off the scale
	[PCS]		■ Activate piece-counting mode
	[CAL]		■ Start adjusting
	[MODE]	■ Switch weighing unit	
	[TARE]	■ Tare	

4 Unpacking, checking and transporting the device

4.1 Unpacking and checking the device



WARNING

Danger of suffocation due to packaging material

Unattended packaging material can become a suffocation hazard for children or animals.

- Do not leave packaging material unattended, especially if children or animals are around.



- *Save the original packaging and its components for transport, storage or a possible return.*
- *Contact your dealer if you notice any missing parts or damage. Information on warranty and goods return can be found in ➔ Chapter 11.1 'Warranty' on page 27.*

1. Check the packaging for visible external damage that may have occurred during shipment.
2. Unpack all parts of the delivery (➔ Chapter 4.2 'Scope of delivery' on page 14) and remove the packaging materials.
3. Check that all parts of the delivery are complete and undamaged.
 - ➔ You can now transport the device to the place of use. ➔ Chapter 4.3 'Transporting the device' on page 14

4.2 Scope of delivery

- Scale
- Power supply unit
- Power plug adapter set
- Operating instructions

4.3 Transporting the device



NOTICE

Damage due to improper transport

Incorrect transport can damage the device.

General information on transporting scales

- Remove all loads from the weighing plate before transporting the scale.
- Remove all loose components from the device before transporting it.
- Use the original packaging to transport the device over long distances.
- When transporting batteries or rechargeable batteries, the applicable national and international regulations must be observed. Ensure that batteries or rechargeable batteries are protected against short circuits and damage. Do not ship defective batteries or devices containing defective batteries.
- When transporting the scale, hold it by the housing and not by the weighing plate or the weighing plate support.

- To transport the scale over short distances, hold it by the transport handle and move it using the transport castors.
- For transport over short distances, hold the scale by the transport handle.

5 Assembly, installation and commissioning

5.1 Selecting the place of use

The scales are designed to achieve reliable results under normal operating conditions. You can work accurately and quickly if you choose the right location for using your scale.

Please note when choosing the location:

- ➔ *Chapter 14.1 'Technical data' on page 32*
- ➔ *Chapter 2.8 'Requirements for the environment of use' on page 11*

5.2 Installing the device

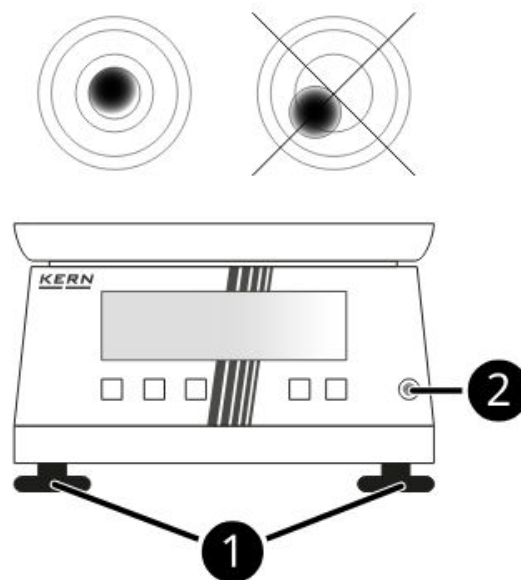
5.2.1 Levelling the device



- *Select a suitable place of use for the scale. ➔ Chapter 2.8 'Requirements for the environment of use' on page 11*
- *Check the levelling regularly.*
- *Level the scale after moving it to a new location.*

For accurate measurements, it is necessary for the scale to be levelled at its place of use.

- ➔ **1.** Position the scale at the place of use.

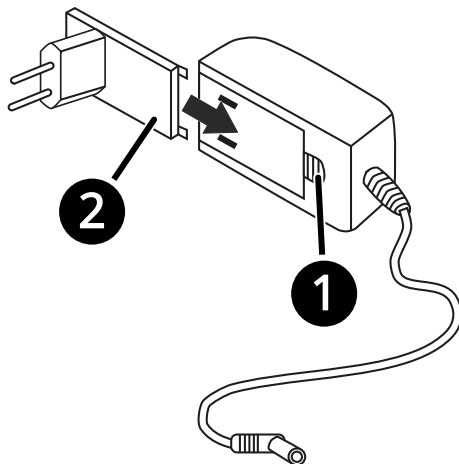


- ➔ **2.** Adjust the levelling feet **1** until the air bubble of the level indicator **2** is in the prescribed circle.
➔ The scale is now ready for use.

5.2.2 Mains operation

Fitting the power plug adapter

A power plug adapter set is included with the device so that it can be used flexibly in different locations with different power plug standards. The installation of the mains plug adapter is described below.



1. ➤ Press the release tab 1.
2. ➤ Slide the power plug adapter 2 into the power supply unit using the guide until it clicks into place.
 - ➡ The power supply unit is now ready for use.
 - ➡ To remove the power plug adapter, press the release tab and proceed in reverse order.

Connecting the power supply to the mains



WARNING

Serious injuries due to damaged power supply units

Damaged power supply units can lead to short circuits, fires and serious injuries.

- Before each use, check the power supply unit and mains cable for visible damage. Do not use the power supply unit if it is damaged.



WARNING

Injuries due to incorrect handling of power supply units

Incorrect handling of power supply units can lead to short circuits, fires and serious injuries.

- Observe the safety precautions for handling power supply units. ➡ *'Safe handling of power supply units and power supplies' on page 9*
- Avoid moisture at the mains connection, power supply unit and socket.
- Only connect the device to a properly installed socket.
- Make sure that the power supply unit cable is never kinked or pinched.
- Ensure that the power supply unit is accessible at all times.
- Ensure that the mains cable does not pose a tripping hazard.
- Only connect the power supply unit to the mains if the information on the device (sticker) and the mains voltage at the place of use are identical.

1. ➤ Plug the mains cable connection into the mains connection of the device (for the mains connection, see ➡ *Chapter 3.1 'Overview of the device' on page 12*).
2. ➤ Insert the power plug into the socket.
 - ➡ The device can now be put into operation. ➡ *Chapter 5.3 'Commissioning the device' on page 18*

5.2.3 Inserting batteries



WARNING

Injuries due to incorrect handling of batteries or rechargeable batteries

Incorrect handling of batteries can lead to short circuits, fires, leaks and injuries.

- Never use batteries or rechargeable batteries that are damaged or deformed.
- Never touch the terminals of batteries or rechargeable batteries with metal objects, as this can lead to short circuits.
- When inserting batteries or rechargeable batteries, ensure that the polarity is correct (positive and negative polarity).
- Do not use different types of batteries or old and new batteries together if several batteries are required for operation. This can lead to damage.
- Only replace batteries or rechargeable batteries with types recommended by the manufacturer.
- Remove the batteries from the device if you wish to store them for a longer period of time. This protects the device from damage caused by any leakage of battery fluid.

1. Carefully turn the scale over.



- 2.** Open the battery compartment on the bottom side.
- 3.** Insert batteries.
- 4.** Close the battery compartment.
- ➡ The scale can now be operated with batteries.

5.3 Commissioning the device

Measures before commissioning

In order to obtain accurate weighing results with electronic scales, the scale must have reached its operating temperature. During this acclimatisation period (➡ *Chapter 14.1 'Technical data' on page 32*), the scale must be connected to the power supply.

Commissioning procedure

Complete all necessary installation work and preparations before commissioning.

- 1.** Switch on the device. ➡ *Further information on page 22*
- 2.** An adjustment may be required at the installation location at the beginning. ➡ *Chapter 6 'Adjustment settings' on page 19*

6 Adjustment settings

The acceleration due to gravity varies at different locations on earth. For exact weighing results, the scale must be adjusted to the prevailing acceleration due to gravity at the location where it is installed. The scale must have reached its operating temperature before it can be adjusted.

Adjustment of the scale is required in the following cases:

- Before initial commissioning, if the scale has not already been adjusted to the installation location at the factory.
- After every change of location.
- After a significant change in environmental conditions (e.g. temperature or humidity).
- If the scale has been disconnected from the power supply.

To ensure accurate measurements, it is also recommended that the scale is adjusted regularly.



NOTICE

Incorrect weighing results

- Avoid unstable environmental conditions during adjustment (e.g. vibrations or air draught).
- Ensure that the scale has reached its operating temperature. ➔ *Chapter 14.1 'Technical data' on page 32*
- Only carry out the adjusting procedure with the standard weighing plate in place.
- During external adjusting, ensure that only the adjustment weight is on the weighing plate without any other load.
- Only handle adjustment weights with tweezers, weight handles or gloves. Avoid direct skin contact between your hands and adjustment weights.

6.1 Adjusting procedure with external adjustment weight

1. ➤ Provide adjustment weight.
2. ➤ Remove any load from the weighing plate.
3. ➤ In weighing mode, press and hold **[CAL]**.
➔ Maximum load is displayed.
4. ➤ Press **[CAL]** again.
➔ <CAL> is displayed briefly.
➔ The weight value of the first adjustment weight will then be displayed flashing.

5. ➤ Place the adjustment weight in the centre of the weighing plate according to the displayed value.
 - As soon as a stable value is registered, the scale will automatically switch to the second calibration point.
 - The second adjustment weight will be displayed flashing.
6. ➤ Place the adjustment weight in the centre of the weighing plate according to the displayed value.
 - Once the weight has been registered, <PASS> will be displayed.
 - The weight of the adjustment weight placed on the scale will then be automatically displayed and saved.
 - The scale switches to weighing mode.
7. ➤ Remove the adjustment weight.
 - The adjusting process is complete.



If the display shows something else, the adjustment has failed. In this case, the adjusting process must be repeated.

7 Basic operation

7.1 Switching on the device



WARNING

Serious injuries due to damaged power supply units

Damaged power supply units can lead to short circuits, fires and serious injuries.

- Before each use, check the power supply unit and mains cable for visible damage. Do not use the power supply unit if it is damaged.



WARNING

Injuries due to incorrect handling of power supply units

Incorrect handling of power supply units can lead to short circuits, fires and serious injuries.

- Observe the safety precautions for handling power supply units.
➔ *'Safe handling of power supply units and power supplies' on page 9*
- Avoid moisture at the mains connection, power supply unit and socket.
- Only connect the device to a properly installed socket.
- Make sure that the power supply unit cable is never kinked or pinched.
- Ensure that the power supply unit is accessible at all times.
- Ensure that the mains cable does not pose a tripping hazard.
- Only connect the power supply unit to the mains if the information on the device (sticker) and the mains voltage at the place of use are identical.



NOTICE

Incorrect weighing results

Ensure that the scale has reached its operating temperature before you start weighing. ➔ *Chapter 14.1 'Technical data' on page 32*

- ▶ Press **[ON-OFF]**.
 - ➔ Maximum load is displayed briefly.
 - ➔ The display switches to the weight display mode.
 - ➔ The scale is ready for operation.

7.2 Switching off the device



NOTICE

Do not leave a load on the weighing plate if you are planning to switch off the scale for a longer period of time. This could damage the measuring element.

- ▶ Press and hold **[ON-OFF]**.
 - ➔ Display switches off.
 - ➔ Scale is switched off.

7.3 Zero setting

Zero setting a scale sets the display to zero so that no weight is displayed when the weighing plate is unloaded. This ensures measurement accuracy by compensating for slight deviations or external influences.



Zero setting is only possible within +/- 2 % of the maximum weighing range. An error message appears if the value is above or below this range limit. ➔ Chapter 13.1 'Error messages' on page 30

1. ▶ Unload the scale.

2. ▶ Press **[TARE]**.
 - ➔ Zero display is shown.
 - ➔ Scale is set to zero.

7.4 Taring

At the touch of a button, the tare weight of any weighing container can be compensated so only the net weight of the weighed material will be displayed in subsequent weighing operations.



- *After removing the container, the weight of the container appears as a negative value.*
- *To delete the stored tare value, remove the load from the weighing plate and tare or zero the unloaded scale.*
- *The taring process can be repeated any number of times, for example when weighing several components to form a mixture (add-on weighing). The limit is reached when the taring range is fully utilised.*

7.4.1 Tare

Tare

1. ▶ Place the empty container on the weighing plate.
 - ➔ The weight of the container is displayed.
2. ▶ Press **[TARE]**.
 - ➔ Zero display is shown.
 - ➔ The weight of the container is stored as a tare.

Weighing with tare

3. ➤ Fill the material to be weighed into the container.
 - ➡ The weight value is displayed.
 - ➡ The result can be read.

7.5 Simple weighing

1. ➤ Check whether the display reads zero and, if necessary, reset it to zero using **[TARE]**.
2. ➤ Place the load on the weighing plate.
 - ➡ The result can be read.



*Use **[MODE]** to switch between the displayed units.*

8 Counting application

The Counting application allows you to count several parts placed on the weighing plate.

8.1 Simple piece counting

If necessary, a weighing container can be used for piece counting. ➔ [Chapter 7.4.1 'Tare' on page 22](#)

Set counting function

1. In weighing mode, press **[PCS]** for approx. 2 seconds.
 - ➔ The scale switches to counting mode and displays <25 PCS>.

Weigh reference quantity

2. Use **[MODE]** to select the desired reference quantity.
3. While <PCS> flashes, load the scale with the number of items previously selected as the reference quantity.
4. Press **[PCS]** to save the reference quantity.
5. Remove the reference items from the scale.

Carry out piece counting

6. Place the items to be counted on the scale.
 - ➔ The number of items can be read.



*Return to normal weighing mode by pressing **[MODE]**.*

9 Cleaning

9.1 Safety during cleaning



DANGER

Electric shock due to live parts

Contact with live parts can lead to electric shock and burns.

- Installation, cleaning, maintenance and servicing work may only be carried out by qualified personnel.
- Disconnect live parts from the power supply.
- Only carry out installation, cleaning, servicing and maintenance work on devices that are switched off and disconnected from the power supply, unless otherwise specified in the relevant instructions.
- Follow the instructions in this document.



NOTICE

Material damage due to incorrect cleaning

Unsuitable cleaning agents can cause damage to the device.

- Do not use any aggressive cleaning agents (e.g. solvents).
- Do not use cleaning agents containing caustic soda, acetic, hydrochloric, sulphuric or citric acid on stainless steel parts.
- Do not use metal brushes or cleaning sponges made of steel wool.
- Do not open the device. There are no parts inside that may be cleaned.

9.2 Recommended cleaning

- 1.** ➤ Switch off the device.
- 2.** ➤ Disconnect the device from the power supply.
- 3.** ➤ Immediately remove any spilled material (e.g. loose sample residues or powder) with a brush or a handheld vacuum cleaner.
- 4.** ➤ Clean the device with a gentle cleaning agent (e.g. soap suds) and a soft cloth.
- 5.** ➤ Use a dry, lint-free cloth to wipe the device.

10 Decommissioning and storage

10.1 Taking the device out of operation

1. ➤ Switch off the device.
2. ➤ Disconnect the device from the power supply:
 - Disconnect the power supply from the mains and unplug it from the device.
 - Remove the batteries from the device
3. ➤ Remove all loose / moving parts from the device.
4. ➤ Pack the device and all accompanying parts neatly in the original packaging.
 - ➡ The device can now be stored
➡ *Chapter 10.2 'Storing the device' on page 26.*

10.2 Storing the device



NOTICE

Damage caused by incorrect storage

Improper storage can damage the device.

- Take the device out of operation according to the instructions in this document ➡ *Chapter 10.1 'Taking the device out of operation' on page 26.*
- Store the device in the original packaging.
- Do not store the device outdoors.
- Observe the environmental conditions in the technical data.

11 Warranty and goods return

11.1 Warranty

The warranty claim only applies to defects that were already present at the time of purchase. Damages or defects caused by improper use, incorrect handling or normal wear and tear are excluded from the warranty.

11.2 Goods return



- *A return is not possible if you have used the device improperly and it has been damaged as a result.*
- *The original packaging, including all associated parts, must be used for returns.*
- *In cases of returns, the complete scope of delivery must be sent back.*

Procedure for returns

1. ➤ Check that all parts of the delivery are present.
2. ➤ Remove all loose / moving parts and connected cables from the device.
3. ➤ Reapply any protective film that may be present.
4. ➤ Pack all parts of the delivery in the original packaging and secure them so that they cannot slip and are protected from damage.

12 Disposal



ENVIRONMENT

Damage to people and the environment due to improper disposal

Non-degradable materials (e.g. plastics or metals) can be released into the environment and cause damage if disposed of improperly.

Materials that are not recycled are a waste of resources and lead to increased environmental pollution.

Electrical devices may contain substances that are not biodegradable and are harmful to the environment and human health.

Batteries and rechargeable batteries may contain substances that are harmful to the environment and human health.

- Dispose of the device via appropriate recycling measures or recycling centres in accordance with the applicable national or regional law of the place of use.

Disposal of electronic devices



The crossed-out wheellie bin symbol indicates that waste from electronic equipment must not be disposed of with household waste. Disposal must be arranged by the operator in accordance with the applicable national or regional law of the place of use.

If this device contains confidential data, it is the responsibility of the operator to delete this data before disposal.

Remove batteries and rechargeable batteries before disposal of the device and dispose of them separately ➔ *'Disposal of batteries and rechargeable batteries' on page 28.*

Disposal of batteries and rechargeable batteries



The crossed-out wheellie bin symbol indicates that batteries and rechargeable batteries must not be disposed of with household waste. Disposal of batteries and rechargeable batteries must be arranged by the operator in accordance with the applicable national or regional law of the place of use.

We are obliged to inform end users in accordance with the EU Battery regulation and the applicable national regulations:

- End users are legally obliged to return all used (rechargeable) batteries.
- Batteries and rechargeable batteries can be returned free of charge after use to municipal collection centres or retailers. Non-used batteries/rechargeable batteries must be protected against short circuits.
- Returns to us are limited to usual household quantities of batteries and rechargeable batteries that we supply or have supplied.
- If batteries or rechargeable batteries contain cadmium (Cd), mercury (Hg) or lead (Pb), the respective symbol is shown below the waste bin symbol.

13 Troubleshooting

13.1 Error messages

Fault description	Cause	Remedy
<Err>	Load cell defective	Have the load cell replaced (contact the KERN technical service department)
	Operating error	Replace battery and readjust scale
<0_Ld>	Load cell defective	Have the load cell replaced (contact the KERN technical service department)
	Overload	Do not exceed the maximum load
	Adjusting with incorrect adjustment weight	Adjust with the correct adjustment weight
<UNSt>	Load cell defective	Have the load cell replaced (contact the KERN technical service department)
	Scale not correctly levelled	Level the scale correctly → Chapter 5.2.1 'Levelling the device' on page 16
	Environmental conditions are unstable or electro-magnetic interference is causing problems	Improve environmental conditions or change installation location
<Lo>	Battery empty	Replace battery

13.2 Troubleshooting table

Fault description	Cause	Remedy
Display does not switch on	Power supply not connected	Connect the device to the power supply
	Device is not switched on	Switch on the device
	Display defective	Contact the KERN technical service department

Fault description	Cause	Remedy
Device cannot be switched on	Power key defective	Contact the KERN technical service department
	Power supply unit defective or not connected	Check and plug in the power supply unit
	Mains power outage	Wait
	Battery empty	Replace battery
Display does not respond to load changes	Display defective	Contact the KERN technical service department
	Load cell defective	Contact the KERN technical service department
Displayed weight is constantly changing	Load is moving	Place the load gently
	Unstable environmental conditions (e.g. draught / air movement, vibrations of the table or floor)	Stabilise the environmental conditions or move the device to another location
	Weighing plate is in contact with foreign objects	Remove foreign objects
	Electromagnetic fields / Electrostatic charge	If possible, switch off the interfering device or change the location of the scale
	Load cell defective	Contact the KERN technical service department
Result is incorrect	Scale is off zero	Unload the scale and set it to zero
	Adjustment is no longer correct	Carry out adjusting
	Scale is not level	Level the scale
	Significant variations in ambient temperature	Stabilise the environmental conditions or move the device to another location
	Electromagnetic fields / Electrostatic charge	If possible, switch off the interfering device or change the location of the scale

14 Product specification

14.1 Technical data

Model-specific data

Model	EHA 500-2	EHA 500-1	EHA 1000-1
Item no. / Type	TEHA 500-2-A	TEHA 500-1-A	TEHA 1000-1-A
Readout (d)	0,01 g	0,1 g	0,1 g
Weighing capacity (max.)	500 g	500 g	1000 g
Recommended adjustment weight (class)	200 g (F2) / 500 g (F2)	200 g (M1) / 500 g (M1)	500 g (M1) / 1 kg (M1)
Time required to reach operating temperature	2 h	10 min	30 min

Model	EHA 3000-1	EHA 3000-0
Item no. / Type	TEHA 3000-1-A	TEHA 3000-0-A
Readout (d)	0,1 g	1 g
Weighing capacity (max.)	3000 g	3000 g
Recommended adjustment weight (class)	1 kg (F2) / 3 kg (F2)	1 kg (M1) / 3 kg (M1)
Time required to reach operating temperature	2 h	10 min

General data

Usage environment		Only in closed areas
Units		g, gn, dwt, ct, oz
Interface		
Ambient conditions	Ambient temperature	5–40 °C
	Relative humidity (non-condensing)	80 %

Power supply

Scale	Input	Voltage	9 V
		Current	600 mA
Power supply unit	Input	Voltage	100–240 V AC
		Frequency	50–60 Hz
Battery	Type		AA
	Quantity		2
	Voltage		1,5 V
	Note		Optional item (not included in the scope of delivery)

14.2 Declaration of Conformity

The current EC/EU Declaration of Conformity can be found online at ➔ www.kern-sohn.com/shop/en/downloads.