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**KERN** *eco* **Operating manual**  
**Electronic bathroom scales**

**KERN MGD**

Version 1.1  
2024-04  
GB



**MGD-BA-e-2411**



# KERN MGD

Version 1.1 2024-04

## Operating manual Bathroom Balance

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## 1 Technical data

KERN	MGD 100K-1	MGD 200K-1L
Readability (d)	0.1 kg	0.1 kg
Weighing range (max)	180 kg	250 kg
Accuracy	+- 0.5% +- 0.1kg	
Height of digits (mm)	40	50
Weighing Units	kg, lb	
Stabilization time	2 sec.	
Operating temperature	-10° C .... + 40° C	
Humidity of air	max. 80 % (not condensing)	
Battery	2 x CR2032 Operating period: 100 h Auto-Off: 10 sec.	3 x 1.5 V AAA Operating period: 100 h Auto-Off: 10 sec.
Dimensions (B x D x H) mm	300 x 300 x 19	380 x 330 x 27
Material weighing platform	Glass	
Weight kg (net)	1.5	2.0

## 2 Declaration of conformity

The current EC/EU Conformity declaration can be found online in:

[www.kern-sohn.com/ce](http://www.kern-sohn.com/ce)

## 3 Basic Information (General)

### 3.1 Proper use

The balance you purchased is intended to determine the weighing value of material to be weighed. It is intended to be used as a “non-automatic balance”, i.e. the material to be weighed is manually and carefully placed in the centre of the weighing plate. As soon as a stable weighing value is reached, the weighing value can be read.

### 3.2 Improper Use

- Our balances are non-automatic balances and not provided for use in dynamic weighing processes. However, the balances can also be used for dynamic weighing processes after verifying their individual operative range, and here especially the accuracy requirements of the application.
- Do not leave permanent load on the weighing plate. This may damage the measuring system.
- Impacts and overloading exceeding the stated maximum load (max) of the balance, minus a possibly existing tare load, must be strictly avoided. Balance may be damaged by this.
- Never operate the balance in explosive environment. The serial version is not explosion protected.
- The structure of the balance may not be modified. This may lead to incorrect weighing results, safety-related faults and destruction of the balance.
- The balance may only be used according to the described conditions. Other areas of use must be released by KERN in writing.

### 3.3 Warranty

Warranty claims shall be voided in case:

- Our conditions in the operation manual are ignored
- The appliance is used beyond the described uses
- The appliance is modified or opened
- Mechanical damage or damage by media, liquids, natural wear and tear
- The appliance is improperly set up or incorrectly electrically connected
- The measuring system is overloaded

## 4 Basic Safety Precautions

### 4.1 Pay attention to the instructions in the Operation Manual

#### Attention:

Stepping on the edge of the weighing plate may cause tilting of balance or fall of person.



⇒ Carefully read this operation manual before setup and commissioning, even if you are already familiar with KERN balances.

## **5 Transport and storage**

### **5.1 Testing upon acceptance**

When receiving the appliance, please check packaging immediately, and the appliance itself when unpacking for possible visible damage.

### **5.2 Packaging**

Keep all parts of the original packaging in case you need to return the appliance. Only use original packaging for returning.

## **6 Unpacking, Installation and Commissioning**

### **6.1 Installation Site, Location of Use**

The balances are designed in a way that reliable weighing results are achieved in common conditions of use.

You will work accurately and fast, if you select the right location for your balance.

#### **On the installation site observe the following:**

- Place the balance on a firm, level surface.
- Avoid extreme heat as well as temperature fluctuation caused by installing next to a radiator or in the direct sunlight.
- Protect the balance against direct draughts due to open windows and doors.
- Avoid jarring during weighing.
- Protect the balance against high humidity, vapours and dust.
- Do not expose the device to extreme dampness for longer periods of time. Non-permitted condensation (condensation of air humidity on the appliance) may occur if a cold appliance is taken to a considerably warmer environment. In this case, acclimatize the disconnected appliance for ca. 2 hours at room temperature.
- Avoid static charge of goods to be weighed or weighing container.
- Do not operate in areas with hazard of explosive material or in potentially explosive atmospheres due to materials such as gasses, steams, mists or dusts.
- Keep away chemicals (such as liquids or gasses), which could attack and damage the balance inside or from outside.
- In the event of the occurrence of electromagnetic fields, static charges (e.g., when weighing / counting plastic parts) and unstable power supply, large display deviations (incorrect weighing results, as well as damage to the scale) are possible. Change location or remove source of interference.

### **6.2 Unpacking**

Take the whole balance out of their packaging and place them at the intended position. In addition to the scales, delivery also includes operating instructions.

### 6.3 Battery operation

“LO“ on the display indicates that the battery load status is low. Replace batteries as quickly as possible with a new set.

If the balance is not used for a longer time, take out the batteries and store them separately. Leaking battery liquid could damage the balance.

### 6.4 Switching the units

There is a button on the back of the scale which can be used to switch the units between kg and lb when the scale is switched on.



## 7 Using the balance

- ⇒ The weighing process requires that the person stands on the weighing plate in a way that provides even weight distribution over the entire weighing plate.
- ⇒ The display will be flashing during the weighing process.
- ⇒ When the weighing value is stable, the weight of the person can be read.
- ⇒ The weighing value will be shown for approx. 10 seconds, after which the scales will turn off automatically.

**Remark:** The typical weight of a person will vary over the day, and equally from one day to the next. Minor weight variations are considered normal.

## 8 Servicing, maintenance, disposal

### 8.1 Cleaning

Do not use aggressive cleaning agents (solvents or similar) but only a damp cloth with mild soapsuds, or household cleaner. Ensure that no liquid gets inside the unit and rub with a soft, dry cloth.

Loose dirt can be removed carefully with a brush or hand-held vacuum cleaner. Balance must not be tilted or rotated for cleaning, as damage may occur.

**Remove dirt immediately.**

### 8.2 Servicing, maintenance

The appliance may only be opened by trained service technicians who are authorized by KERN.

### 8.3 Disposal

Disposal of packaging and appliance must be carried out by operator according to valid national or regional law of the location where the appliance is used.

## 9 Error message

“Err“ on the display indicates that the weighing range has been exceeded. Please take the weight off the scales.

## 10 Instant help

Help:

### Fault

### Possible cause

The displayed weight is permanently changing

- Draught/air movement
- Table/floor vibrations
- Weighing plate has contact with other objects
- Electromagnetic fields / static charging (choose different location/switch off interfering device if possible)

The weighing result is obviously incorrect

- The display of the balance is not at zero
- Great fluctuations in temperature.
- Electromagnetic fields / static charging (choose different location/switch off interfering device if possible)

If the error message remains inform manufacturer.