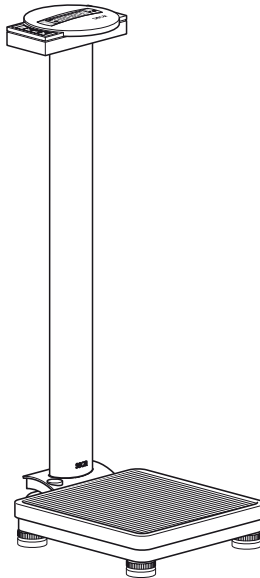


seca 799



Full certification

In seca products you are purchasing not only technology matured over a century, but also quality confirmed by authorities, the legal system and by institutes.

seca products comply with European directives, standards and national laws. With seca, you are buying the future.



M

The products in these operating instructions comply with German legislation governing medical products and therefore with Directive 93/42/EEC of the Council of the European Community which is embodied in national laws throughout Europe.

Scales carrying this symbol are approved for medical purposes in the European Community. seca scales with this symbol meet the stringent quality and technical requirements placed on scales which can be calibrated.



Scales carrying this symbol are calibrated in accordance with Precision Class III of EC Directive 90/384/EEC.



Products carrying this symbol comply with the following directives and standards:

1. Directive 90/384/EEC governing non-automatic weighing instruments
2. Directive 93/42/EEC governing medical devices
3. DIN EN 45501 governing metrological aspects of non-automatic scales



seca's professionalism has also been officially recognized. The certificate from TÜV Product Service, the body responsible for medical devices, confirms that as a manufacturer of medical devices, seca rigorously complies with stringent legal requirements. seca's quality assurance system covers the development, production, sales and service of medical scales and measuring systems and ergometry.

seca helps the environment.

We are concerned to save natural resources. We therefore strive to save packaging material where meaningful. What is left over can conveniently be disposed of locally via the German Dual System (recycling programme).



1. Congratulations!

In the **seca 799** electronic personal scale, you have purchased a high-precision yet sturdy piece of equipment.

seca has been putting its experience at the service of health for over 150 years now, and as market leader in many countries of the world, is always setting new standards with its innovative developments for weighing and measuring.

In accordance with national regulations, the **seca 799** electronic personal scale is used primarily in hospitals, doctors' surgeries and in-patient nursing facilities. The scales are a Class I medical product, and have been calibrated in accordance with the precision class III.

Weight is determined within a few seconds.

In addition to the conventional determination of weight, the **seca 799** also has a function for determining body mass index. For this purpose, height is entered on the keypad and the body mass index associated with the weight value is output.

The scale is of a very sturdy construction and will give you long and loyal service. It is easy to operate and the large display is easy to read.

The **seca 799** can be moved on castors, and its low power consumption means that it can be used on a mobile basis with batteries for long periods.

2. Safety

Before using the new scale, please take a little time to read the following safety instructions.

- Follow the instructions in the instructions for use.
- Keep the operating instructions and the declaration of conformity in a safe place.
- Do not drop the scale or subject it to violent shocks.
- Use only the type of battery stated (see "Changing the batteries" on page 24).
- Have scale serviced and re-calibrated on a regular basis (see chapter entitled "Servicing/recalibration" on page 24).
- Have repairs carried out only by authorised persons.

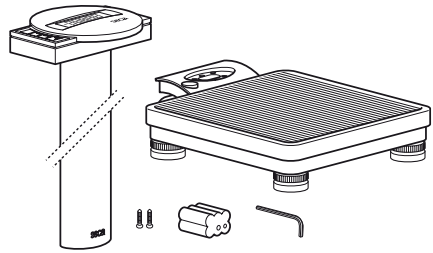
3. Before you start...

Unpacking

Remove the packaging and place the scale on a firm, level surface.

The scope of supply includes:

- Weighing platform
- Column with display head
- 1 WAF 5 Allen key
- 2 mounting screws
- Battery holder containing 6 mignon-type AA 1.5 V batteries

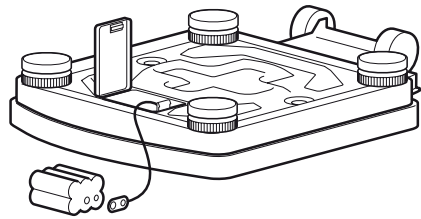


Power supply

The scale is generally powered by batteries.

The LC display has a low power consumption – 10,000 weighing operations can be performed with one set of batteries.

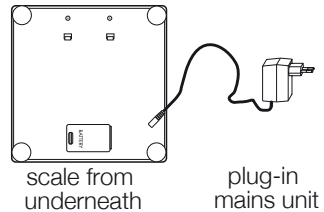
- Carefully turn over the scale so that the base of the scale is accessible.
- Push the battery compartment closure towards “Battery” and open the cover.
- Connect the cable to the holder and batteries.
- Place the holder in the battery compartment.
- Close the cover and then turn the scale back up the right way.



Note: the scale is prepared for use with a seca mains unit which is available as an accessory.

The connection socket for the mains unit is in the base of the scale.

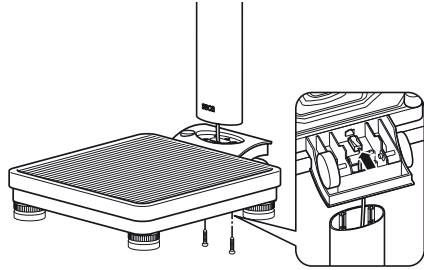
Note: the mains unit can also be used with the batteries in place without the scale or batteries being damaged.



Fitting the column

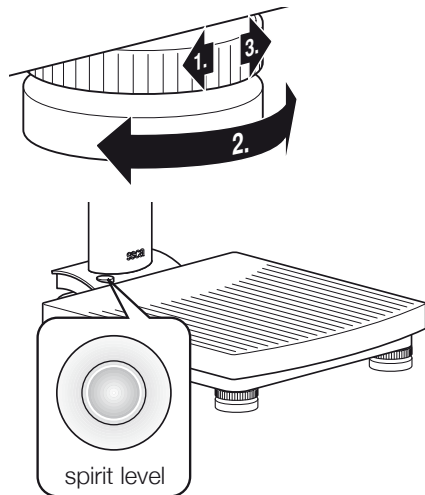
The column and display head are fitted to the weighing platform.

- Guide the connecting cable through the opening.
- Place the column in the recess. The display should be legible for people standing on the scale.
- Screw the column to the weighing platform from underneath.
- If necessary, lay the scale carefully on its side to tighten up the screws.
- Connect the plug of the connecting cable to the rear of the scale.
- Then place the scale upright again.



4. Setting up and aligning the scale

- Place the scale on a level surface.
- Unfix the locknuts above the four foot screws (1).
- Align the scale by screwing the foot screws. The air bubble in the spirit level must be right in the centre of the circle (2).
- Then re-tighten the locknuts (3).
- Ensure that only the feet of the scale are in contact with the floor. The scale may not be in contact at any other point.



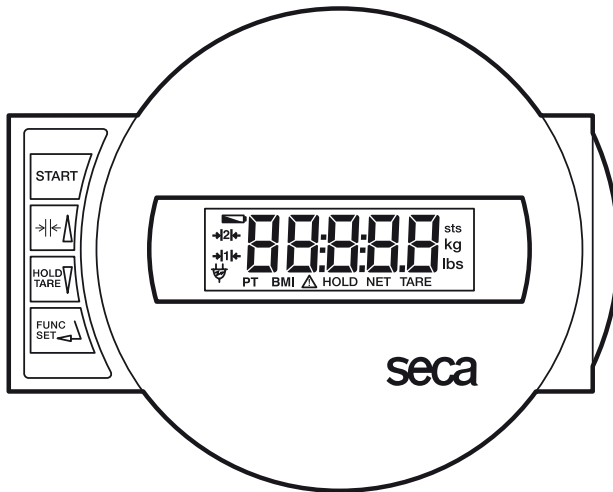
Important!

The alignment of the base of the scale must be checked and corrected if necessary every time the location of the scale is changed.

5. Operation

Controls and displays

The controls and the display are on the display head on the column.



Switch scale on and off



press briefly → switch between weighing range 1 and 2
in function menu → increase value



press briefly → activate/deactivate hold function
hold down → set display to zero, activate/deactivate tare function
in function menu → decrease value



Activation of BMI function and Enter key for input data

Correct weighing

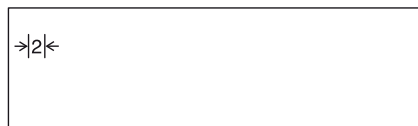
- Press the Start key with no load on the scale.
SECA, **88888** and **00** appear consecutively in the display. The scale is then automatically set to zero and ready to use.
- If necessary, switch the weight display (see page 20).
- Stand on the scale and keep still.
- Read the weighing result off the digital display.
- If a load greater than 150 kg or 200 kg is placed on the scale, **STOP** appears in the display.
- To switch off the scale, press the Start key again.



Switching the weighing range

The **seca 799** has two weighing ranges which can be selected. Weighing range 1 has a reduced maximum capacity but greater display resolution, whilst weighing range 2 allows you to use the maximum load capacity of the scale. Depending on the application in question, you decide whether you would prefer to use the fine display resolution or the high load range.

- Switch on the scale at the green Start key. The scale initially operates in the weighing range last selected.
- To change the weighing range, press the key $\rightarrow| \leftarrow \Delta$
- The weighing range active in each case is shown in the display.



Note:

It is possible to switch from Range 1 with fine graduations to Range 2 with coarse graduations with a load on the scale unless the scale is switched to a special function (like BMI, for example). For technical reasons, it is only possible to switch from coarse Range 2 to fine Range 1 with no load on the scale. In this case too, no special function may be activated.

Automatic switch-off/economy mode

The scale automatically detects whether it is being operated on batteries or whether it is connected to the mains.

- Operation on batteries: automatic shut-down after 30 seconds.
- With mains operation: shut-down only via keypad.

Taring weight display (TARE)

The tare function is very useful, for example for determining the weight of a child or other object placed on the scale in addition to yourself.

Proceed as follows:

- Press the Start key with no load on the scale.



- First stand on the scales yourself without the additional weight and activate the Tare function by depressing and holding the **HOLD/TARE** key.



The display is reset to zero. **0.0** appears in the display. The note "NET" appears.



- Now take the additional load onto the scale. You can leave the scale to do so, in which case **----** appears.

The scale determines the weight of the additional load.

You can now perform as many weighing operations as you like.

- Hold the key down again to deactivate the Tare function; the scale is then back in normal weighing mode and the tare value has been erased.



- The tare value is likewise erased by the scale being switched off.



Store weight value (HOLD)

You can also continue displaying the weight determined once the load has been removed. This makes it possible to look after a patient first, before having to note the weight.

- Press the **HOLD/TARE** key whilst the load is on the scale.



"HOLD" appears in the digital display. The value is stored until the scale switches off automatically (operation on batteries).



The triangle with the exclamation mark indicates that this frozen display is an additional facility which is not subject to calibration.

- The HOLD function can be switched off by pressing the **HOLD/TARE** key again.



00 appears in the display if the scale has no load on it, otherwise the current weight. The "HOLD" display vanishes.

Body Mass Index (BMI)

Body Mass Index puts height and weight in relationship to one another, providing more accurate information than ideal Broca weight, for example. A tolerance range is given which is considered ideal for health.

- Press the Start key with no load on the scale.



SECA, 88888 and 00 appear consecutively in the display. The scale is then automatically set to zero and ready for operation.

- Press the **FUNC** key. On the display, you will see the last height entered.



- You can use the arrow keys to adjust the value in increments according to the graduations displayed.



- Once the correct value is set, press the **FUNC** key again. The BMI function is now activated.



- Ask the patient to mount the scale. Once on the scale, the patient should stand still.

- Read off the BMI on the digital display and compare it with the categories on page 22.

- To return to normal weighing mode, press the **FUNC** key.



- To switch off the scale, press the Start key again.



Evaluating Body Mass Index for adults:

Compare the value determined with the categories quoted below which correspond to those used by WHO, 2000.

- **BMI below 18.5:**

Warning, this patient weighs too little. There could be a tendency to anorexia. An increase in weight is recommended to improve well-being and performance. If in doubt, consult a specialist.

- **BMI between 18.5 and 24.9:**

The patient is of a normal weight. He can stay as he is.

- **BMI between 25 and 30 (pre-obese):**

The patient is slightly to moderately overweight. He should cut his weight if he is already ill (e.g. diabetes, hypertension, gout, fat metabolism disorders).

- **BMI over 30:**

Weight reduction is essential. Metabolism, cardiovascular system and bones are all under strain. A consistent diet, plenty of movement and behavioural training are all recommended. If in doubt, consult a specialist.

6. Cleaning

Clean the rubber surface and the housing as required using a domestic cleaning agent or commercially-available disinfectant. Follow the manufacturer's instructions.

Under no circumstances use abrasive or acid cleaners, white spirit, benzene or the like for cleaning. Such substances can damage the high-quality surfaces.

7. What do I do if...

... no weight display comes on?

- Is the scale switched on?
- Check the batteries.
- Is the plug contact on the scale properly connected??

... 0.0 does not appear before the weighing operation?

- Press the Start key again – there must not be any load on the scale

... - - - - appears instead of 0.0 before weighing?

- Press the Start key again – there must not be any load on the scale.

... one segment is illuminated constantly or not at all?

- The relevant segment has a fault. Inform Servicing.

... the display shows ?

- Battery voltage is running low. Change the batteries in the next few days.

... bAtE appears in the display?

- Batteries are empty. Put in new batteries.

... 5t0P appears in the display?

- Maximum load has been exceeded.

... the display flashes?

- If you have just activated the Hold or Tare function, please wait until the scale has detected a steady weight value. The display will then stop flashing.
- If there has been no activation of a function beforehand, remove the load from the scale and wait until 0.0 is displayed, then weigh again.

... the display **E** and **XX.XX** appear?


- Switch off the scale with the Start key and start the scale again. The scale will then work normally again.
If this is not the case, disconnect the power supply by briefly removing the batteries or unplugging the mains supply from the scale. If this measure is equally unsuccessful, inform the Service department.

8. Servicing/recalibration

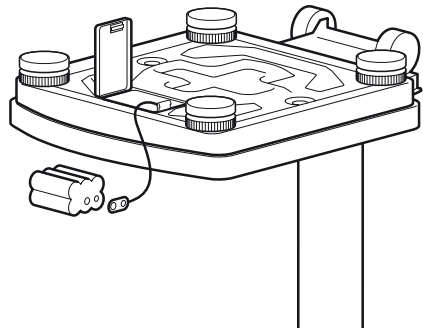
Have the scale recalibrated by authorised persons in accordance with national legal requirements. The year of initial calibration can be found behind the CE symbol on the rating plate above the number of the appointed office, 0109 (Hessen Weights & Measures Office). Recalibration is essential if one or more security marks are damaged.

We recommend having your scale serviced by your local service agent before having it recalibrated. seca Customer Service will be pleased to give you further assistance.

Changing the batteries

When  or **bAtE** appear in the display, you should change the batteries. You need 6 type AA 1.5 V batteries.

- Carefully turn over the scale so that the base of the scale is accessible.
- Push the battery compartment closure towards “Battery” and open the cover.
- Take out the holder and batteries.
- Remove the used batteries and insert new batteries in the holder.



Check that the polarity is correct.

- Place the holder and batteries in the battery compartment.
- Close the cover.
- Then turn the scale back up the right way.

9. Technical data

Dimensions

width:	292 mm
height:	830 mm
depth:	390 mm

Height of figures

20 mm

Weight

approx. 6,8 kg

Temperature range

+10 °C to +40 °C

Power supply

Battery/mains unit (option)

Batteries

6 type AA 1.5 V batteries

Calibration as per Directive 90/384/EEC

Class III medical approval

Medical product as per Directive 93/42/EEC

Class I

Maximum load

Weighing range 1	150 kg
Weighing range 2	200 kg

Minimum load

Weighing range 1	2 kg
Weighing range 2	4 kg

Graduations

Weighing range 1	100 g
Weighing range 2	200 g

Accuracy at first calibration

Weighing range 1:	
up to 50 kg:	± 50 g
50 kg up to 150 kg:	± 100 g
Weighing range 2:	
up to 100 kg:	± 100 g
100 kg up to 200 kg:	± 200 g

Functions

Switching the weighing range, Tare, Hold
Body Mass Index

10. Spare parts and accessories

Power supply

Model dependent mains unit

Plug-in mains unit, Euro: 230V~ / 50Hz / 12V= / 130mA

seca no.: 68-32-10-252

Switchmode power adapter, 100-240V~ / 50-60Hz / 12V= / 0.5A

seca no. 68-32-10-265

Attention!

Use only seca original plug-in mains units with 9 V or controlled 12 V output voltage. Commercially-available mains units may supply a higher voltage than stated and thus lead to damage to the scale.

11. Disposal

Disposing of the device



Do not dispose of the device in domestic waste. The device must be disposed of properly as electronic waste. Follow the national regulations which apply in your case. For further information, contact our service department at:

service@seca.com

Batteries

Do not throw used batteries away in domestic waste. Dispose of batteries at collection points in the vicinity. When buying new batteries, select those low in harmful substances and containing no mercury (Hg), cadmium (Cd) or lead (Pb).

12. Warranty

A two-year warranty from date of delivery applies to defects attributable to poor materials or workmanship. All moveable parts - batteries, cables, mains units, rechargeable batteries etc. - are excluded. Defects which come under warranty will be made good for the customer at no charge on production of the receipt. No further claims can be entertained. The costs of transport in both directions will be borne by the customer should the equipment be located anywhere other than the customer's premises. In the event of transport damage, claims under warranty can be

honoured only if the complete original packaging was used for any transport and the scale secured and attached in that packaging just as it was when originally packed. All the packaging should therefore be retained.

A claim under warranty will not be honoured if the equipment is opened by persons not expressly authorised by seca to do so.

We would ask our customers abroad to contact their local sales agent in the event of a warranty matter.