seca 703

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1. Congratulations!

By purchasing the seca 703 electronic personal scale, you have acquired a high-
ly-accurate and sturdy piece of equip-
ment.

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

In accordance with national regulations, the
seca 703 electronic personal scale is used
primarily in hospitals, doctors’ surgeries
and in-patient nursing facilities.

The weight display can be switched be-
tween kilogrammes (kg), pounds (lbs) and
stones (sts). Weight is determined within a
few seconds.

In addition to the conventional determina-
tion of weight, the seca 703 also has a
function for determining body mass index.
For this purpose, height is entered on the
keypad and the body mass index associ-
ated with the weight value is output.

The seca 703 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 instruc-
tions.

• Follow the safety instructions in the in-
struction manual.

• Keep the operating instructions and the
declaration of conformity in a safe
place.

• Do not drop the scale or subject it to vi-
olent shocks.

• Have scale serviced on a regular basis
(see “Servicing” on page 23).

• Have repairs carried out exclusively by
authorised persons.

• Use only the type of battery stated (see
“Changing the batteries” on page 23).

• When using the scale with a mains unit,
ensure that the supply cable is routed in
such a way as to exclude any type of
tripping hazard.
3. Before you start...

Unpacking
The scope of supply includes:
- Weighing platform
- Column with display head
- Column socket
- 1 WAF 5 Allen key
- 2 Screws
- Battery holder containing 6 mignon-type AA 1.5 V batteries
- 1 set of operating instructions

Fitting the column
The column with the LCD display can be fitted in two positions, allowing you to determine in which direction the display is legible - facing either towards or away from the platform.
- Push the column socket onto the column.
- Place the column in the recess, facing it in the desired direction.
- 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 plugs of the display cable on the underside of the weighing platform as shown in the illustration.
- Fix the plugs in the cable guide.
- Then place the scale upright again.
- Push the column socket right down until it engages in the weighing platform.
**Power supply**

The scale is generally powered by batteries. The LC display has a low power consumption – 16,000 weighing operations can be performed with one set of batteries.

- 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.

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

- The socket for connecting the mains unit is located at the bottom of the column.

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

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**4. Setting up and aligning the scale**

- Place the scale on a level surface.
- Align the scale by using the foot screws. The scale must stand securely with all four feet on the ground.
5. Operation

Controls and displays
The controls and display are in the display part.

- **START**
  - Switch scale on and off

- **Short press**
  - Increase value

- **Hold down**
  - Switch between kg and lbs
  - Switch between kg and sts
  - Set display to zero, activate/deactivate tare function

- **Hold down in function menu**
  - Increase value

- **FUNCTION**
  - Activating the BMI function, Confirmation
Correct weighing
- Press the Start key with no load on the scale. 
  \textit{SEC}, \textit{BBB} and \textit{DD} 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 18).
- Stand on the scale and keep still.
- Read the weighing result off the digital display.
- If a load greater than 250 kg or 550 lbs is placed on the scale, \textit{STOP} appears in the display.

Switching the weight display
The weight display can be switched between kilogrammes (kg) and pounds (lbs) or between kilogrammes (kg) and stones (sts).
- Switch on the scale using the green Start key. Weight is initially displayed in the last setting selected.
- To switch the weight display between kilogrammes and pounds, press the \textit{kg/lbs/sts} key.
  - The \textit{kg} or \textit{lbs} display lights up.
- To switch weight display between pounds and stones, hold down the \textit{kg/lbs/sts} key for approx. 2 seconds.
  The \textit{lbs} or \textit{sts} display lights up.

Automatic switch-off/economy mode
The scale automatically detects whether it is being operated on rechargeable batteries alone or whether it is connected to the mains.
- With rechargeable battery operation: 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, animal 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, \(0.0\) flashes in the display until weight is detected to be stable. Only then is the Tare function fully activated. The note “NET” appears.

- Now take the additional load onto the scale. You can leave the scale to do so, in which case \(-\ldots\) 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 remains saved in the display until the hold function is automatically switched off.

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

0.0 appears in the display if the scale has no load on it, otherwise the current weight. The “HOLD” display vanishes.

Note:
The HOLD and TARE functions can also be used simultaneously.

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.

  set, 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.

- Step on the scale and keep still.

- Read off the BMI on the digital display and compare it with the categories on page 21.

- Press an arrow key if you would like to see the weight briefly.

- 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 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 for connecting the display to the scale correctly connected?

... 0.0 does not appear before weighing?
- Switch off the scale with the Start key and start the scale again – there must not be any load on the scale – and only its feet should be in contact with the floor.

... 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.

... batt appears in the display?
- Batteries are empty. Put in new batteries.

... Stop 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 🔄 appears?
- The ambient temperature of the scale is too high or too low. Place the scale in an ambient temperature between +10 °C and +40 °C. Wait about 15 minutes for the scale to adapt to the ambient temperature and then weigh again.

... the display Э and a number 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. If this measure is equally unsuccessful, inform the Service department.
8. Servicing

Your seca scale leaves the factory with an accuracy greater than ±0.15 %. To ensure that this accuracy is maintained, the product must be carefully set up and regularly maintained. Depending on the frequency of use, we recommend servicing every 3 to 5 years. Please ensure that a qualified service agent is used. If in doubt, contact seca Customer Service for further information.

Changing the batteries

When  or \textit{bAtt} appear in the display, you should change the batteries. You need 6 type AA 1.5 V batteries.

– 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.

9. Technical data

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum load</td>
<td>250 kg / 550 lbs / 39 sts</td>
</tr>
<tr>
<td>Graduations</td>
<td></td>
</tr>
<tr>
<td>0 up to 250 kg:</td>
<td>0.1 kg</td>
</tr>
<tr>
<td>up to 550 lbs:</td>
<td>0.2 lbs</td>
</tr>
<tr>
<td>Dimensions scale</td>
<td></td>
</tr>
<tr>
<td>width:</td>
<td>360 mm / 14.2 ins</td>
</tr>
<tr>
<td>height:</td>
<td>930 mm / 36.6 ins</td>
</tr>
<tr>
<td>depth:</td>
<td>520 mm / 20.5 ins</td>
</tr>
<tr>
<td>Dimensions weighing platform</td>
<td></td>
</tr>
<tr>
<td>width:</td>
<td>350 mm / 13.8 ins</td>
</tr>
<tr>
<td>height:</td>
<td>84 mm / 3.3 ins</td>
</tr>
<tr>
<td>depth:</td>
<td>360 mm / 14.2 ins</td>
</tr>
<tr>
<td>Height of figures</td>
<td>20 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>approx. 16 kg</td>
</tr>
<tr>
<td>Temperature range</td>
<td>+10 °C to +40 °C</td>
</tr>
<tr>
<td>Batteries</td>
<td>6 type AA 1.5 V batteries</td>
</tr>
<tr>
<td>Power supply</td>
<td>Battery/ mains unit (option)</td>
</tr>
<tr>
<td>Power consumption</td>
<td>approx. 25 mA</td>
</tr>
</tbody>
</table>
EN 60 601-1:
Insulated equipment, Protection Class II:
medical electrical equipment type B:

Accuracy
greater than ±0.15 % / ±100 g

Functions
Switch between units, Tare, Hold
Body Mass Index

10. Spare parts and accessories

Measuring rods
Material: hard-anodised aluminium, slide with lockable measuring tab

**seca 220 telescopic measuring rod**  
**seca model 220-17-14-004:**
Measuring range: 890 - 2000 mm,
Graduations: 1 mm

**seca model 220-18-14-004** (double graduations):
Measuring range: 890 - 2000 mm and 35 " - 78 3/4 ",
Graduations: 1 mm and 1/8 "

Power supply
**Model dependent mains unit**
Plug-in mains unit, Euro: 230V~ / 50Hz / 12V= / 130mA
seca spare part no.: 68-32-10-252
Desk-top mains unit, switchable, Euro: 115V~ / 230V~ / 50-60Hz / 9V= / 350mA
seca spare part no.: 68-32-10-243
Plug-in mains unit, USA: 120V~ / 60Hz / 12V= / 150mA
seca spare part no.: 68-32-10-259

**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.