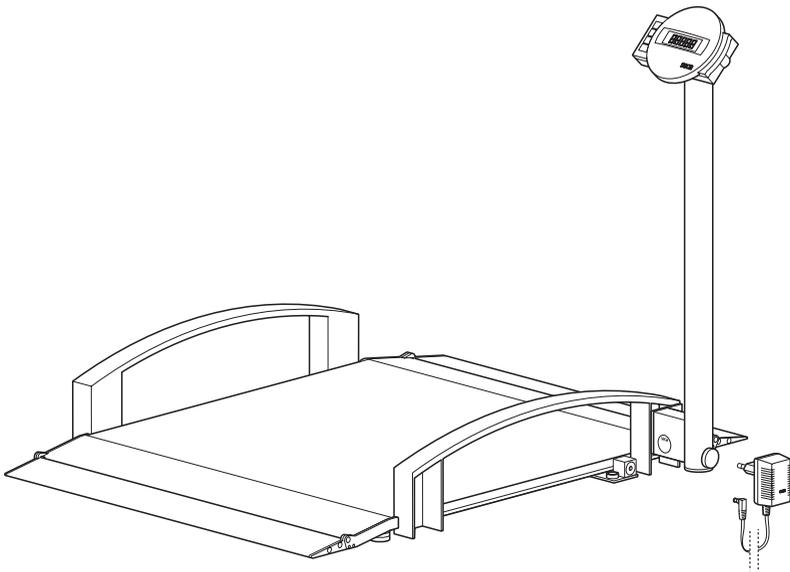


# seca 664



*Instruction manual and guarantee*

# 1. Congratulations!

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In the **seca 664** electronic wheelchair 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 664** electronic wheelchair scale is used primarily in hospitals, doctors' surgeries and in-patient nursing facilities.

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

The pre-Tare function allows you to store the weights of three types of wheelchair. This weight is automatically deducted in the weighing operation.

The two fold-away ramps allow the wheelchair-user to get on and off in comfort.

The fold-away column allows the scale to be stored upright to save space.

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 664** can be moved on castors and its low power consumption combined with its rechargeable batteries mean it will provide long, mobile service.

## 2. Safety

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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.
- Lay the scale carefully in its position for use.
- Secure the scale so that it does not fall over when stored in the upright position.
- When moving the scale in the upright position, ensure that it does not fall over.
- Be sure to use only the seca mains unit supplied. Before plugging the mains unit into a socket, check that the mains voltage indicated on the mains unit matches local mains voltage.
- 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.
- Have repairs carried out only by authorised persons.

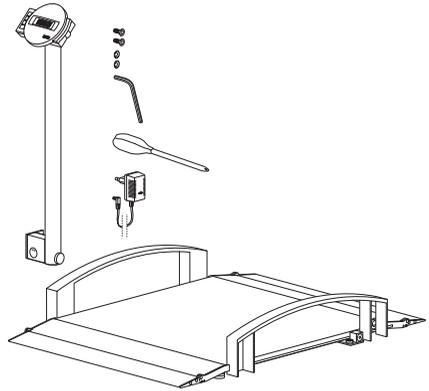
# 3. Before you start...

## Unpacking

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

The scope of supply includes:

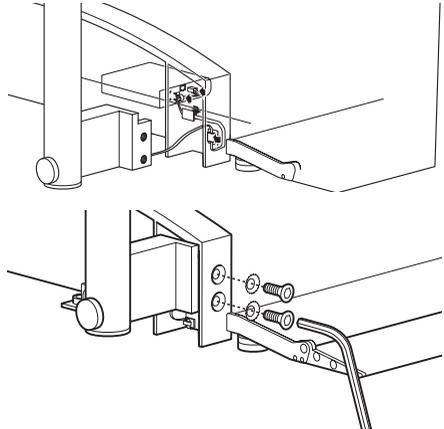
- Weighing platform
- Column with display head
- 2 mounting screws
- 2 serrated lock washers
- 1 Allen key
- 1 screwdriver
- 1 seca mains unit
- 1 set of operating instructions



## Fitting the column

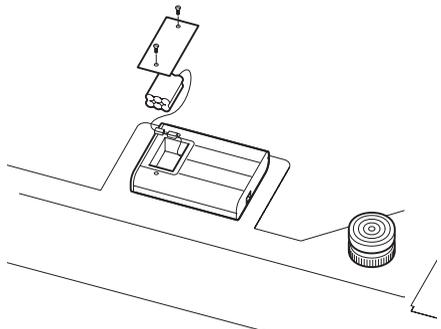
The column and display head are fitted to the weighing platform.

- Guide the connecting cable through the opening.
- Place the column at the intended point at the end of the rail and tighten up the screws.
- Now connect the battery pack.



## Connecting battery pack

- Carefully get the scale upright so that the base of the scale is accessible.
- Connect the connecting cable from the column to the electronics box.
- Undo the screws of the battery compartment and take off the cover.
- Connect the plug contacts to the battery pack inside.
- Close the cover and then turn the scale back up the right way.

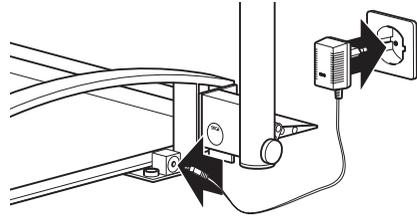


## Power supply

The scale is powered by a mains unit and by a rechargeable batterie. The scale works independently of the mains, which is very handy for mobile use.

The LC display and the evaluation electronics have a low power consumption – 2,000 weighing operations can be performed with a fully charged batterie. Once batterie voltage is no longer adequate, the batterie symbol  first appears in the display to indicate that batterie power is dropping. If the batterie is not charged, batterie voltage will ultimately not be adequate for error-free measuring. In this case, **bAtt** appears in the display and weighing is no longer possible.

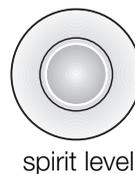
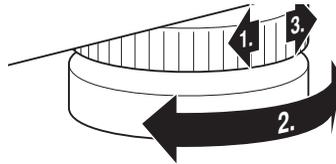
The rechargeable batterie is charged by the mains unit supplied. For this purpose, the mains unit needs to be connected to the mains for at least 24 hours.



## 4. Setting up and aligning the scale

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- Place the scale on a level surface.
- Fold the column upwards. Secure the column by tightening up the knurled screw.
- Undo the locknuts using the four foot screws.
- Align the scale by undoing the foot screws. The air bubble in the spirit level must be right in the centre of the circle.
- Then re-tighten the locknuts.
- Fold down the ramps required.
- 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.



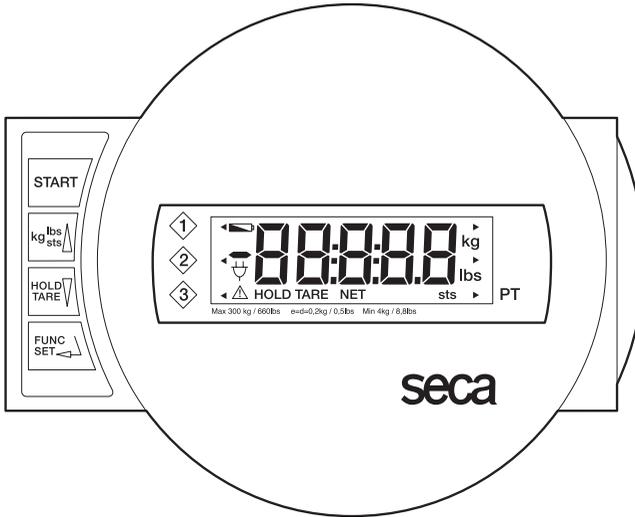
### Important!

**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 kg and lbs  
hold down → switch between kg and sts  
in function menu → increase value, scroll



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



Activating the pre-Tare function and Enter key for input data

## Correct weighing

- Press the Start key.  
**SECA**, **88888** and **0.00** 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 18).
- Move your chair onto the scale and keep still.
- Read the weighing result off the digital display.
- If a load greater than 300 kg or 660 lbs is placed on the scale, **StOP** appears in the display.
- To switch off the scale, press the Start key again.



## 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 **kg/lbs/sts** key.  
The **kg** or **lbs** display lights up.



- To switch weight display between pounds and stones, hold down the **kg/lbs/sts** key for approx. 2 seconds.
- The **lbs** or **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 5 minutes.
- With mains operation: shut-down only via keypad.

## Taring weight display (TARE)

The Tare function is very useful if an additional weight, e.g. that of a wheelchair, is to be ignored for weighing purposes.

Proceed as follows:

- Press the green Start key.



- First place the additional weight (e.g. the wheelchair) on the scale and activate the Tare function by pressing and holding the **HOLD/TARE** key.



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



- Now move the patient and the wheelchair previously weighed onto the scale.

The scale determines the patient's weight. 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.



- 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.**

## Weighing with pre-Tare

If the pre-Tare function is activated, a stored weight value is deducted from the currently measured weight. This function is useful, for example, if the weight of a wheelchair is not to be displayed.

Three different tare weights (wheelchair weights) can be stored.

- Press the Start key.  
**SECA**, **88888** and **0.00** appear consecutively in the display. After that, the scale is automatically set to zero and ready for operation.



- Press the **FUNC** key.  
The last function used appears in the display.



An arrow on the left-hand side of the display indicates which memory is set.

- Use the arrow keys to select the desired memory for storing the additional weight or where a weight may already be stored.



- Then press **FUNC**. In the display you will see the tare value from the memory.



- 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 pre-Tare function is now activated.

- Move onto the scale in the wheelchair associated with that memory. Read the weighing result off the digital display.
- Press an arrow key if you would like to see the current weight value briefly.
- To return to normal weighing mode, press the **FUNC** key.
- To switch off the scale, press the Start key again.



**Tip: note weight and the memory in which the weight is stored on your wheelchairs.**

## Setting damping

Damping is useful for reducing weight determination malfunctions (due to patient movements, for example). The stronger the damping, the more slowly the weight display reacts. You can set damping to suit requirements.

- Press the **FUNC** key and keep it depressed for 2 seconds.



**FIL** and the current setting appear in the display:

- 0 = slight damping  
→ fast determination of weight
- 1 = average damping  
→ normal determination of weight
- 2 = strong damping  
→ slow determination of weight

- Press an arrow key if you want to change the set value.



- Press the **FUNC** key again to store the displayed value. The scale is then back in normal weighing mode.



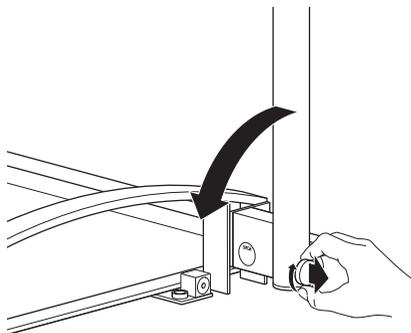
**The settings are retained even once the scale is switched off.**

## 6. Storing the scale

The scale can be stored upright to save space.

- Undo the knurled nut on the hinge of the column.
- Pull out the knurled screw and fold over the column.
- Re-engage the knurled screw.
- You can now prop the scale up on the column.
- The scale can now be moved.

The scale can be placed on the bottom rail for **short-term** storage. Secure the scale so that it does not fall over when stored in the upright position.



## 7. 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.

## 8. What do I do if...

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### ... no weight display comes on?

- Is the scale switched on?
- Check the mains connection and the connection of the battery pack
- Is the plug contact on the scale correctly connected?
- Is the plug contact for connecting the display to the scale correctly connected?

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

- Press the Start key 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 dropping. Charge the rechargeable batteries in the next few days.

### ... bAtE appears in the display?

- The rechargeable battery is so severely discharged that weighing is no longer possible. Recharge the battery.

### ... 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 tENP 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 E 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, interrupt the power supply by briefly removing the rechargeable battery. If this measure is equally unsuccessful, inform the Service department.

# 9. Maintenance

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Your seca scale leaves the factory with an accuracy greater than  $\pm 0.15\%$ . To ensure that this degree of accuracy is maintained, the product must be carefully set up and regularly serviced. Depending on frequency of use, we recommend servicing at intervals of 3 to 5 years. Please note that a qualified servicing agent should be used for this. If you are in doubt, seca Customer Service will give you more information.

# 10. Technical data

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## Dimensions: (width, length, height)

Scale in position for use, ramps folded out:	1102 x 1150 x 911 mm
Scale in position for use, ramps folded away:	1102 x 985 x 911 mm
Scale in upright position:	193 x 986 x 1102 mm

## Weight

approx. 30,3 kg

## Temperature range

+10 °C to +40 °C

## Accuracy

greater than  $\pm 0,15\%$

## seca 664, no. 1321 009 / -109

### Weighing range

0 to 300 kg / 0 to 660 lbs /  
0 to 47 sts

### Graduations

100 g / 0.2 lbs

## seca 664, no. 1321 139 (USA)

### Weighing range

0 to 660 lbs / 0 to 300 kg

### Graduations

0.1 lbs / 100 g

## Colour

silver grey/black

## Power supply:

mains unit and built-in rechargeable  
battery pack

# 11. Spare parts and accessories

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## Power supply

### Model-dependent mains unit:

Description: plug-in mains unit  
230 V~/50 Hz/12 V=/130 mA  
seca spare part no. 68-32-10-252

Description: convertible desk-top mains  
unit  
115 V~/230 V~/50 Hz/9 V=/350 mA  
seca spare part no.: 68-32-10-243

Description: USA mains unit  
120 V~/60 Hz/12 V=/150 mA  
seca spare part no.: 68-32-10-259

### Rechargeable batteries:

Description: pack of 6 rechargeable bat-  
teries, NiMH  
seca spare part no.: 68-22-12-721

## 12. Disposal

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### Rechargeable batteries

Do not throw old rechargeable batteries into the domestic refuse! Ensure that rechargeable batteries are properly disposed of at local collection points.

### Disposing of the scale

If the scale can no longer be used, the responsible waste disposal association will be glad to advise you on the measures necessary to dispose of it properly.

## 13. Warranty

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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.

**QuickMedical is an authorized distributor for seca.**

**See the complete line of seca products at :  
[www.medicalscales.com/seca](http://www.medicalscales.com/seca)**

**Call toll free: 1-888-345-4858  
Fax: 425-831-6032**