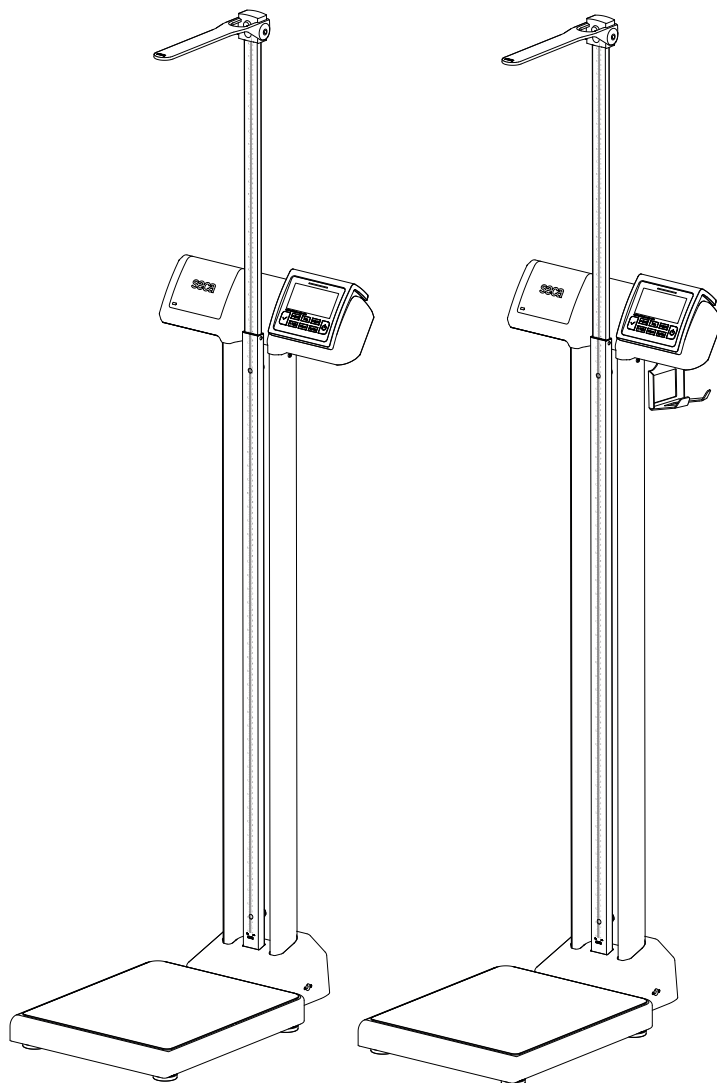


seca 787 / 797



GB	Instructions for use and warranty	3
FR	Mode d'emploi et garantie	44
ES	Instrucciones de uso y garantía	87

CONTENTS

1. Description of device	5	4.7 Setting up the WiFi connection (seca 797)	26
1.1 Intended use	5	Setting the WiFi function	26
1.2 Description of function	5	Connecting the device to the WiFi network (WPS)	27
Measuring station	5	Connecting the device to the WiFi network (seca connect 103)	27
USB interface (seca 797 only)	5		
Internal interface module (seca 797 only)	5		
External interface module (optional accessory for seca 787)	5		
seca connect 103 software (optional accessory)	5		
1.3 User qualification	5	5. Operation	28
Assembly	5	5.1 Switching the device on and off	28
Operation	5	Switching on the device	28
Administration		Switching off the device	28
(seca 797 only)	5	5.2 Switching units of measurement (variant-dependent)	28
		5.3 Measuring weight	29
2. Safety information	6	Weighing	29
2.1 Safety precautions in these instructions for use	6	Taring off additional weight (Tare)	29
2.2 Basic safety precautions	6	Displaying weight permanently (Hold)	30
Handling the device	6	5.4 Measuring height	30
Preventing electric shock	7	Measuring heights < 1.22 m	30
Preventing injuries and infections	7	Entering height value (Height)	31
Preventing damage to device	8	Measuring heights > 1.22 m	31
Handling measuring results	9	5.5 Calculating and displaying body mass index (BMI)	33
Handling packaging material	9	5.6 Scanning ID(s) and transmitting data via WiFi (seca 797)	33
Handling batteries and rechargeable batteries	9	5.7 Other functions (menu)	34
		Navigating in the menu	34
3. Overview	10	Activating/deactivating the Autohold function (AHOLD)	34
3.1 View of device	10	Setting permanent display of weight value (HOLD)	34
3.2 Display unit controls	11	Setting filtering (FIL)	35
3.3 Symbols in the display	13	Setting standby time (AOFF)	35
3.4 Menu structure (seca 787)	14	Activating/deactivating switching of units of measurement (Unit) (variant-dependent)	35
3.5 Menu structure (seca 797)	14	Calibrating measuring rod (HCAL)	36
3.6 Markings on the device and on the type plate	15	Restoring factory settings (rESeT)	36
3.7 Markings on the packaging	15	Resetting WiFi settings (rESeT) (seca 797)	37
4. Starting up device	16	6. Hygiene treatment	37
4.1 Scope of delivery (seca 787)	16	6.1 Cleaning	37
4.2 Scope of delivery (seca 797)	17	6.2 Disinfecting	37
4.3 Assembling the device	17	6.3 Sterilizing	38
Tools required	17		
Fitting the measuring rod	18	7. Function check	38
Fitting the column	19	8. Troubleshooting	38
Fitting the display head	20	8.1 General faults	38
Switching the positions of the display unit and the battery compartment	21	8.2 Problems with data transmission (interface module)	39
Fitting the barcode scanner holder (seca 797)	23		
Setting up the device	23	9. Servicing	40
Disinfecting the device	23	10. Technical data	40
4.4 Transporting the device	24	10.1 General technical data	40
4.5 Establishing the power supply	24	10.2 Weighing data	41
Inserting batteries	24	11. Optional accessories (seca 787)	42
Connecting the plug-in power supply unit (variant-dependent)	25	12. Optional accessories (seca 797)	42
4.6 Connecting the barcode scanner (seca 797)	25	13. Spare parts (seca 797)	42

14. Disposal	42
14.1 Device	42
14.2 Batteries and rechargeable batteries	42
15. Warranty	42
16. Declarations of conformity	43
16.1 For Europe	43
16.2 For USA and Canada	43

1. DESCRIPTION OF DEVICE

1.1 Intended use

The **seca 787** and **seca 797** measuring stations are used in accordance with national regulations primarily in hospitals, medical practices and in-patient care facilities.

The **seca 787** and **seca 797** measuring stations are for conventional determination of weight and height and for determining the general state of nutrition; they support the attending physician in making a diagnosis or deciding on a course of treatment.

To make an accurate diagnosis, however, the physician needs to commission other specific examinations and take their results into account, in addition to determining weight and height.

1.2 Description of function

Measuring station

On the **seca 787** and **seca 797** measuring stations, weight is recorded by four load cells. Height is recorded with the integrated measuring rod. Height values above 1.22 m are recorded digitally. Height values below 1.22 m are read off by the user and recorded manually.

Body mass index (BMI) can be calculated automatically from the measuring results.

USB interface (seca 797 only)

A barcode scanner can be connected to the USB interface. This allows users and patients to be identified by means of their barcodes and measuring results assigned in the EMR system.

Internal interface module (seca 797 only)

With the aid of the internal interface module, the **seca 797** measuring station can transmit data to the **seca connect 103** software via a WiFi connection.

External interface module (optional accessory for seca 787)

With the aid of the **seca 452** external interface module, the **seca 787** measuring station can transmit data to the **seca connect 103** software via a WiFi or LAN connection.

seca connect 103 software (optional accessory)

The **seca connect 103** software receives measured data from an internal or external interface module and transmits it to an EMR system.

1.3 User qualification

Assembly

Devices that are shipped partially assembled may only be mounted by sufficiently qualified persons such as specialist dealers, hospital technicians or seca Service technicians.

Operation

The device may only be operated by healthcare professionals.

Administration (seca 797 only)

The device may only be set up and incorporated in a network by experienced administrators or hospital technicians.

2. SAFETY INFORMATION

2.1 Safety precautions in these instructions for use



DANGER!

Used to identify an extremely hazardous situation. If you fail to take note of this information, serious irreversible or fatal injuries will occur.



WARNING!

Used to identify an extremely hazardous situation. If you fail to take note of this information, serious irreversible or fatal injuries may result.



CAUTION!

Used to identify a hazardous situation. If you fail to take note of this information, minor to moderate injuries may result.

NOTICE!

Used to identify possible incorrect usage of the device. If you fail to take note of this information, you may damage the device, or the measuring results may be incorrect.

NOTE

Includes additional information about use of the device.

2.2 Basic safety precautions

Handling the device

- ▶ Please take note of the information in these instructions for use.
- ▶ Keep the instructions for use in a safe place. The instructions for use are a component of the device and must be available at all times.



DANGER!

Risk of explosion

Do not use the device in an environment in which one of the following gases has accumulated:

- oxygen
- flammable anesthetics
- other flammable substances/air mixtures



CAUTION!

Patient hazard, damage to device

- ▶ Additional devices which are connected to electrical medical devices must provide evidence of compliance with the relevant IEC or ISO standards (e.g. IEC 60950 for data-processing devices). Furthermore, all configurations must comply with the requirements of standards for medical systems (see IEC 60601-1-1 or Section 16 of the 3rd edition of IEC 60601-1 respectively). Anyone connecting additional devices to electrical medical devices is considered a system configurer and is therefore responsible for ensuring that the system complies with the requirements of standards for systems. This also applies to additional devices recommended by seca. Your attention is drawn to the fact that local laws take precedence over

the above-mentioned requirements of standards. In the event of any queries, please contact your local specialist dealer or Technical Service.

- ▶ Have servicing carried out regularly as described in the relevant section of this document.
- ▶ Technical modifications may not be made to the device. The device does not contain any parts for servicing by the user. Only have servicing and repairs performed by an authorized seca Service partner. You can find service partners in your area at www.seca.com or by sending an e-mail to service@seca.com.
- ▶ Only use original seca accessories and spare parts, otherwise seca will not grant any warranty.



CAUTION!

Patient hazard, malfunction

- ▶ Keep other electrical medical devices, e.g. high-frequency surgical devices, a minimum distance of approx. 1 meter away to prevent incorrect measurements or wireless transmission interference.
- ▶ Keep HF devices such as cell phones a minimum distance of approx. 1 meter away to prevent incorrect measurements or wireless transmission interference.
- ▶ The actual transmission output of HF equipment may require minimum distances of more than 1 meter. Details can be found at www.seca.com.

Preventing electric shock



WARNING!

Electric shock

- ▶ Set up the device so that the power supply socket is easy to reach and the device can be disconnected from the power supply quickly.
- ▶ Ensure that your local power supply matches the information on the power supply unit.
- ▶ Do not touch the power supply unit with wet hands.
- ▶ Do not use extension cables or power strips.
- ▶ Make sure that cables are not pinched or damaged by sharp edges.
- ▶ Make sure that cables do not come into contact with hot objects.
- ▶ Do not operate the device at an altitude of more than 3000 m above sea level.

Preventing injuries and infections



WARNING!

Injury from falls

- ▶ Ensure that the device is positioned firmly and level.
- ▶ Route connecting cables (if present) in such a way that neither user nor patient can trip over them.
- ▶ The device is not designed as a standing aid. Assist people with limited motor skills when they are getting up, e.g. from a wheelchair.
- ▶ Make sure that the patient does not step onto and off the weighing platform right at the edges.
- ▶ Make sure that the patient steps onto and off the weighing platform slowly and safely.

**WARNING!****Danger of slipping**

- ▶ Ensure that the weighing platform is dry before the patient steps onto it.
- ▶ Ensure that the patients feet are dry before he or she steps onto the weighing platform.
- ▶ Make sure that the patient steps onto and off the weighing platform slowly and safely.

**WARNING!****Risk of infection**

- ▶ Before and after every measurement, wash your hands to reduce the risk of cross-contamination and nosocomial infections.
- ▶ Hygienically reprocess the device regularly as described in the respective section in this document.
- ▶ Make sure that the patient has no infectious diseases.
- ▶ Make sure that the patient has no open wounds or infectious skin alterations, which may come into contact with the device.

Preventing damage to device**NOTICE!****Damage to device**

- ▶ Ensure that no liquids enter the device. They can damage the electronics.
- ▶ Switch off the device before disconnecting the power supply unit from the mains socket.
- ▶ For devices with power supply operation: Disconnect the power supply unit from the mains socket if you intend to not use the device for a longer period of time. Only this way it can be ensured that the device is de-energized.
- ▶ For devices with battery or rechargeable battery operation: If you do not use the device for an extended period of time, remove batteries or rechargeable batteries. Only this way it can be ensured that the device is de-energized.
- ▶ Make sure not to drop the device.
- ▶ Do not expose the device to any impacts or vibrations.
- ▶ Perform function controls regularly as described in the relevant section in this document. Do not operate the device if it is damaged or not working properly.
- ▶ Ensure that there is no heat source in the immediate vicinity. Do not expose to direct sunlight. The excessive temperature could damage the electronics.
- ▶ Avoid rapid temperature fluctuations. When the device is transported so that a temperature difference of more than 20 °C occurs, it must stay turned off for at least 2 hours before it can be turned on again. Otherwise, condensation water will form which can damage the electronics.
- ▶ Use the device only in the intended ambient conditions.
- ▶ Store the device only in the intended storage conditions.
- ▶ Do not use aggressive or abrasive cleaning agents.
- ▶ Do not use organic solvents (e.g. white spirit or petroleum spirit).

Handling measuring results**CAUTION!****Patient hazard**

In order to avoid misinterpretations, measuring results for medical use must be displayed and used in SI units (weight: kilogrammes, length: metres) only. Some devices offer the ability to display measuring results in other units. This is only an additional function.

- ▶ Use the results exclusively in SI units.
- ▶ The use of measurement results in non-SI units is the sole responsibility of the user.

NOTICE!**Inconsistent measuring results**

- ▶ Before you electronically save measurement values determined using this device and use them further (e.g. in seca PC software or in an EMR system), make sure that the measurement values are plausible.
- ▶ If measurement values are transmitted to seca PC software or an EMR system, make sure prior to further use that the measurement values are plausible and are assigned to the correct patient.

Handling packaging material**WARNING!****Risk of suffocation**

Packaging material made of plastic foil (bags) is a choking hazard.

- ▶ Keep packaging material out of reach of children.
- ▶ In the event that the original packing material may not be available anymore, only use plastic bags with security holes in order to reduce the risk of suffocation. Use recyclable materials if possible.

NOTE

Keep the original packing material for future use (e.g. returning for servicing).

Handling batteries and rechargeable batteries**WARNING!****Personal injury as a result of improper handling**

Batteries and rechargeable batteries contain harmful substances which may explode if not handled properly.

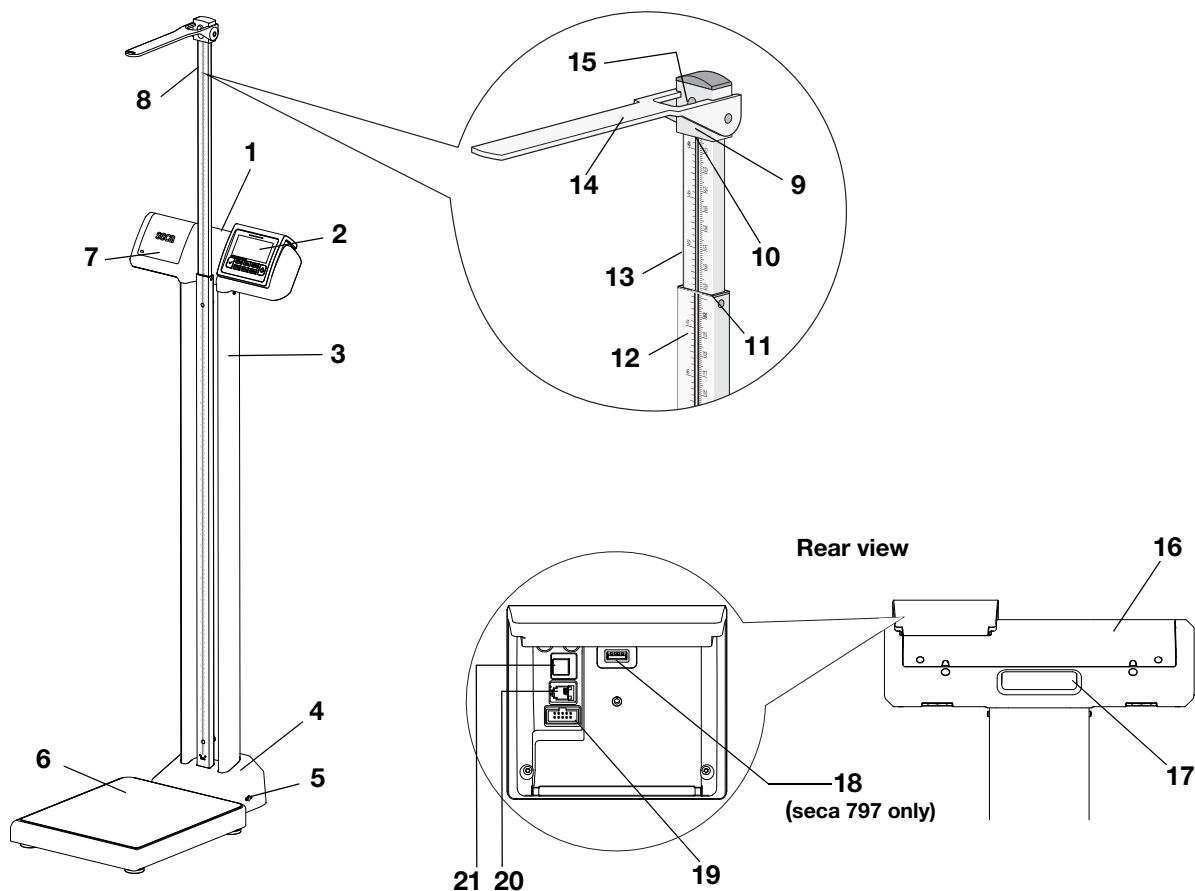
- ▶ Do not try to recharge batteries.
- ▶ Do not expose (rechargeable) batteries to heat.
- ▶ Do not burn (rechargeable) batteries.
- ▶ If acid is leaking out, avoid contact with the skin, eyes and mucous membranes. Rinse affected areas with plenty of clean water and seek medical help at once.

NOTICE!**Damage to device and malfunctions with improper handling**

- ▶ Only use the type of (rechargeable) battery specified in this document.
- ▶ When replacing (rechargeable) batteries, always replace a complete set at a time.
- ▶ Do not short-circuit (rechargeable) batteries.
- ▶ If you do not use the device for a long period of time, remove the batteries (incl. rechargeable batteries). This prevents acid from leaking into the device.
- ▶ If acid leaked into the device, discontinue use. Have the device checked by an authorised seca Service partner and repaired if necessary.

3. OVERVIEW

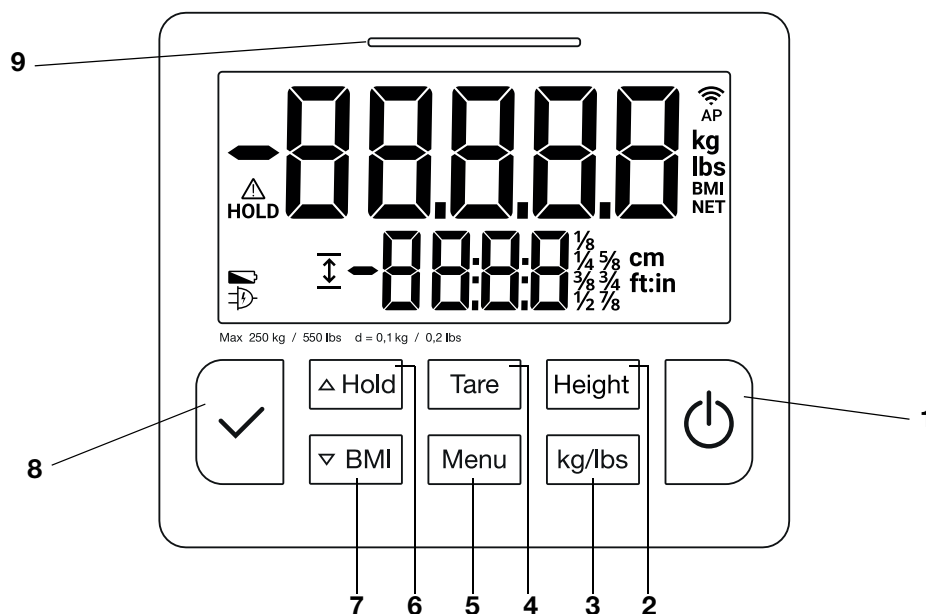
3.1 View of device



Item	Device component	Function
1	Display head	For supporting the display unit and housing the cables and batteries
2	Display unit	Serves as the central operating and display element
3	Column	For supporting the display head and the measuring rod
4	Column holder	For supporting the column
5	Power supply connection socket	For connecting a seca plug-in power supply unit
6	Weighing platform	For weighing patients
7	Battery compartment	To take type AA batteries, 1.5 V
8	Measuring rod	For measuring height
9	Head slide	For sliding the measuring flap onto the lower telescopic element
10	Read-off edge 1	For reading off measuring results in measuring range 1
11	Read-off edge 2	For reading off measuring results in measuring range 2
12	Lower telescopic element	For measuring height in measuring range 1: Up to 1.22 m
13	Upper telescopic element	For measuring height in measuring range 2: From 1.22 m
14	Measuring flap	Serves as a head stop for measuring height
15	Latch	For releasing and latching the head slide

Item	Device component	Function
16	Cover panel	For covering the cables
17	Recessed handle	For transporting the measuring station
18	USB interface (seca 797 only)	For connecting a barcode scanner
19	Socket for electronic height measuring unit	For connecting the electronic height measuring unit
20	Connecting cable socket	For connecting the connecting cable
21	Socket with blind plug	Do not use (seca 787 : Connection for optional accessory seca 452)

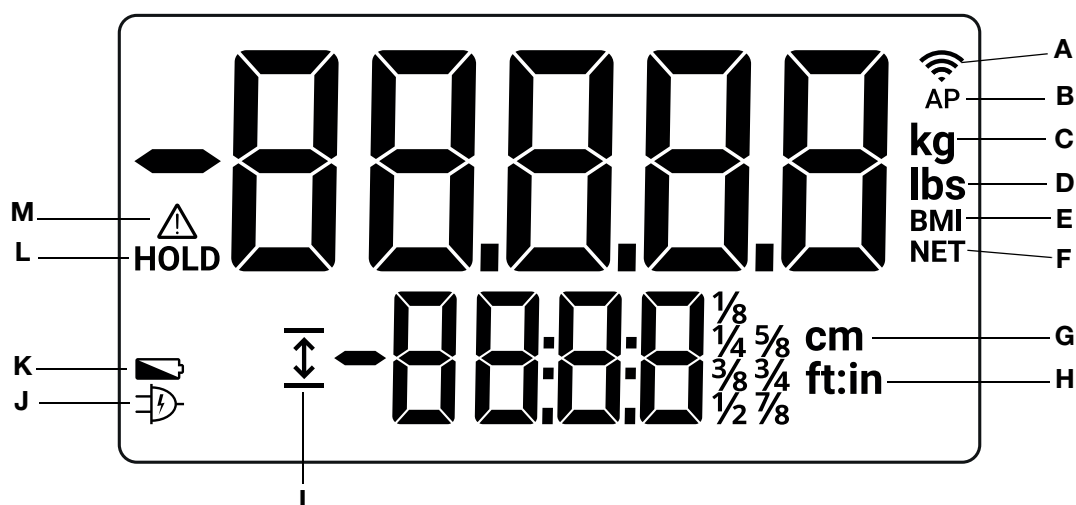
3.2 Display unit controls



Item	Control	Function
1		On/off key - Switch the device on and off
2		Height key - During the measurement procedure (measuring range 2): - Activate/deactivate permanent display of height value - During the measurement procedure (measuring range 1): - Activate manual input of height - In the menu: - No function
3		kg/lbs key - During the measurement procedure: - Switch between metric and imperial units (kg/cm <-> lbs/ft:inches) (press and hold key) (function depends on variant) - In the menu: - No function

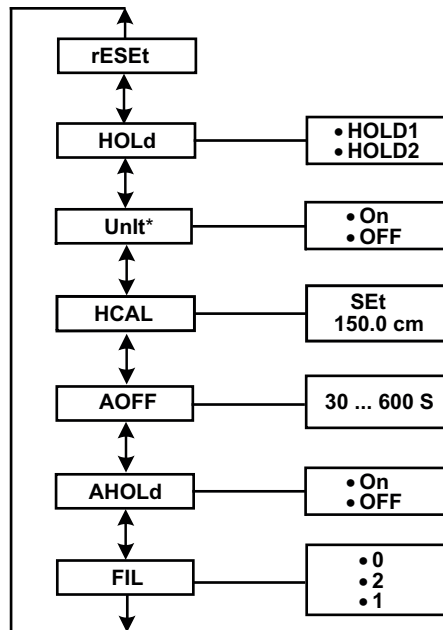
Item	Control	Function
4		Tare key - During the measurement procedure: - Activate/deactivate Tare function - In the menu: - No function
5		Menu key - During the measurement procedure: - Call up menu (press and hold key) - In the menu: - Go back one menu level/exit menu (press key briefly)
6		Δ Hold key - During the measurement procedure: - Activate/deactivate Hold function - In the menu: - Select menu item, submenu or setting - Increase value (press and hold key to increase the value more quickly)
7		∇ BMI key - If measured values are present: - Activate BMI function - In BMI mode: - Deactivate BMI function - In the menu: - Select menu item, submenu or setting - Decrease value (press and hold key to decrease the value more quickly)
8		Confirm key - If measured values are present: - Transmit measuring results to an EMR system via seca connect 103 software (condition: Active interface module) - In the menu: - Confirm selected menu item - Save set value
9	Workflow LED	Shows the status of data recording and transmission (condition: Active interface module): - Illuminated in green: Measurement procedure is active - Flashing green (approx. 5 seconds): Measuring results being sent to the EMR system (depending on setting) - Illuminated in green (approx. 5 seconds): Measuring results successfully sent to the EMR system (depending on setting) - Illuminated in red (approx. 5 seconds): Error in data transmission or measurement procedure NOTE - The data recorded and transmitted are set in the seca connect 103 software. If you have any queries, contact your administrator or hospital technician. - The seca 452 external interface module is available as an optional accessory for the seca 787 measuring station (→ "Optional accessories (seca 787)", page 42).

3.3 Symbols in the display



Item	Symbol	Meaning
A		Indicates the status of the WiFi connection and the field strength of the WiFi network (condition: Active interface module): • When setting up the WiFi network: - Flashing: Device connecting to a WiFi router - Illuminated: Device and WiFi router are connected and the WiFi connection has been made • In operation: - Illuminated: The number of bars indicates the field strength of the WiFi network
B	AP	Access Point function active (service function)
C	kg	Weight value in kilograms
D	lbs	Weight value in pounds
E	BMI	Body mass index
F	NET	Additional weight tared off (Tare)
G	cm	Height in centimeters
H	ft:in	Height in feet and inches
I		Height value is displayed permanently (Height)
J		Operation with power supply unit
K		Batteries are low
L	HOLD	Weight value is displayed permanently (Hold)
M		Non-verifiable function active

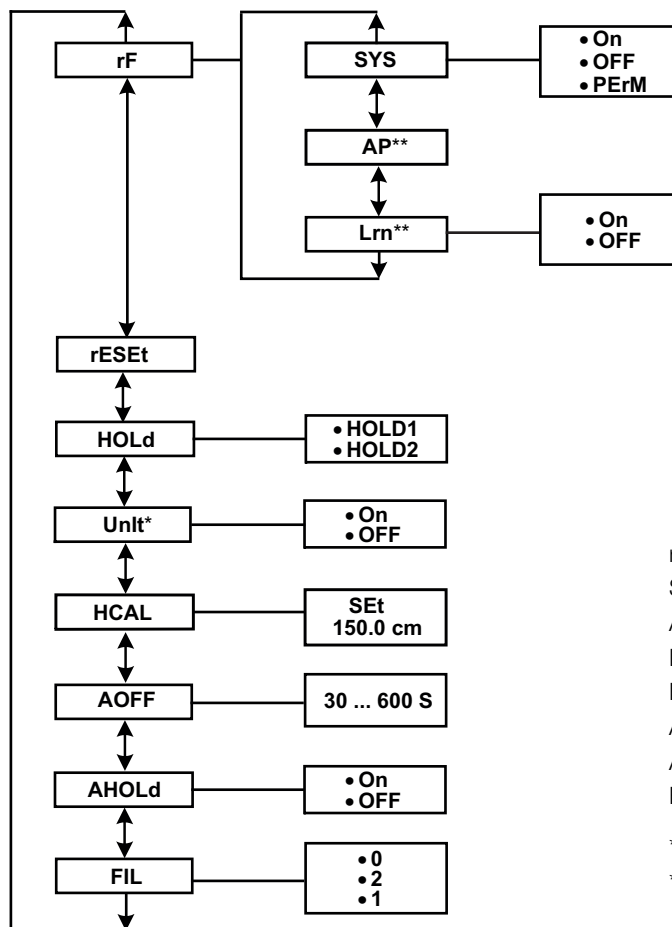
3.4 Menu structure (seca 787)



HCAL = Height Calibration
 AOFF = Auto OFF
 AHOLd = Auto Hold
 FIL = Filter

* variant-dependent

3.5 Menu structure (seca 797)



rF = Radio Frequency
 SYS = system
 AP = Access Point
 Lrn = Learn
 HCAL = Height Calibration
 AOFF = Auto OFF
 AHOLd = Auto Hold
 FIL = Filter

* variant-dependent

** with interface module activated

3.6 Markings on the device and on the type plate

Text/symbol	Meaning
	Name and address of manufacturer, date of manufacture
REF	Model number
SN	Serial number, consecutive
ProdID	Product identification number, consecutive
Approval Type	Type designation of design approval
	Follow instructions for use
	Medical electrical device, Type B
d	Value in mass units (non-verified models) States the difference between two consecutive display values
	Device complies with EU directives
	FCC symbol (USA)
FCC ID	For USA: Device license number from the Federal Communications Commission (FCC)
IC	For Canada: Device license number from Industry Canada
	Type plate on the power supply connection socket • xx V: Supply voltage required • max xx A: Maximum current consumption • : Note polarity of connector plug • : Operate device with direct current
display cable	Connection for display cable, model seca 797 only
	Do not dispose of device with household waste

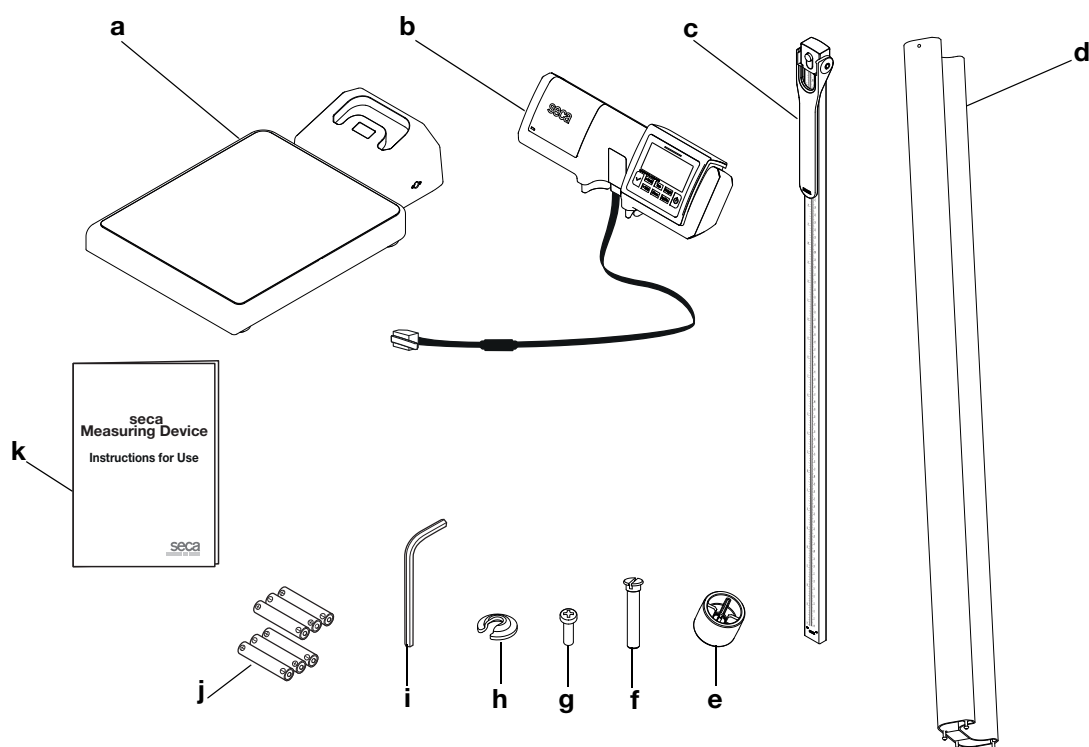
3.7 Markings on the packaging

	Protect from moisture
	Arrows indicate top of product Transport and store in an upright position
	Fragile Do not throw or drop
	Permitted min. and max. temperature for transport and storage
	Permitted min. and max. humidity for transport and storage

	Open packaging here
	Packaging material can be disposed of through recycling programs

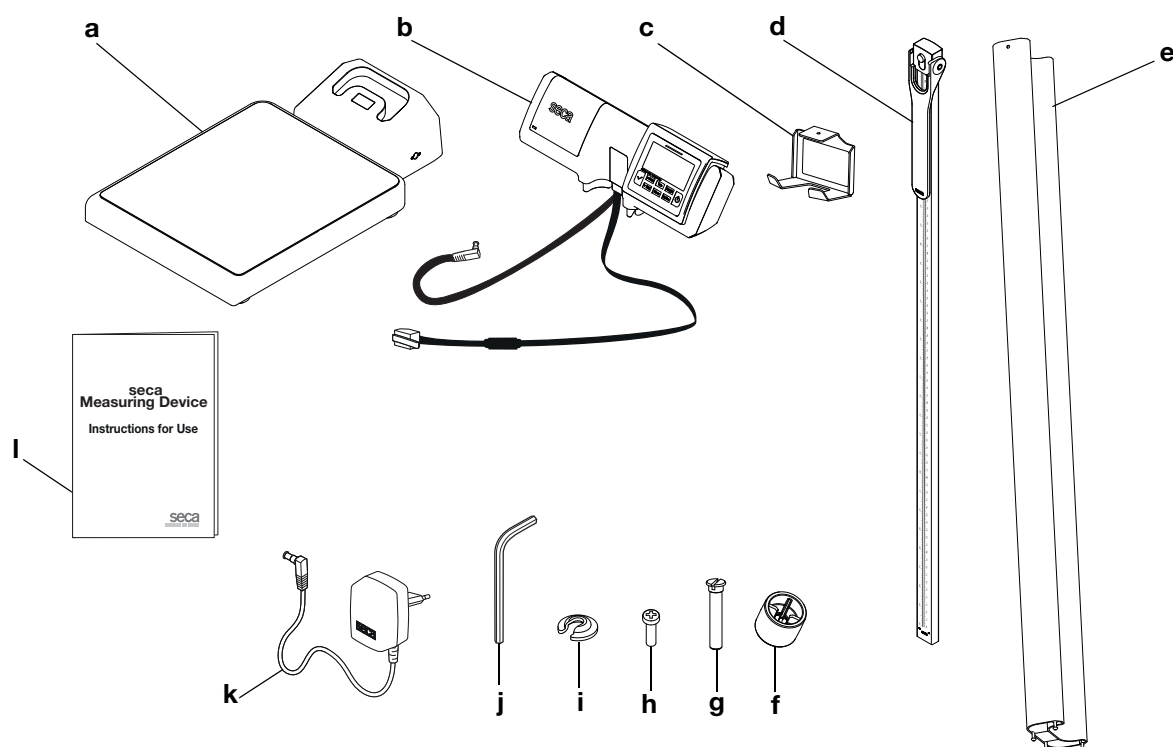
4. STARTING UP DEVICE

4.1 Scope of delivery (seca 787)



Item	Component	Pcs.
a	Weighing platform with column holder	1
b	Display head with display unit and connecting cable	1
c	Measuring rod	1
d	Column (with four pre-fitted screws)	1
e	Spacer sleeves	2
f	Slot-head screws	2
g	Cross-head screws	2
h	Lock washers	4
i	T20 hex key	1
j	Batteries (type AA, 1.5 V)	6
k	Instructions for use	1

4.2 Scope of delivery (seca 797)



Item	Component	Pcs.
a	Weighing platform with column holder	1
b	Display head with display unit, display cable and connecting cable	1
c	Barcode scanner holder	1
d	Measuring rod	1
e	Column (with four pre-fitted screws)	1
f	Spacer sleeves	2
g	Slot-head screws	2
h	Cross-head screws	3
i	Lock washers	4
j	T20 hex key	1
k	Plug-in power supply unit	1
l	Instructions for use	1

4.3 Assembling the device

NOTE

- Use an assistant to perform the assembly.
- We recommend placing the components on the floor and only setting the device in an upright position once you have fitted the measuring rod and the column.

Tools required

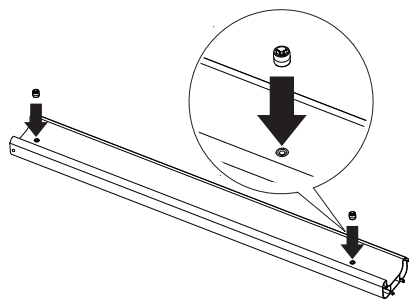
In addition to the scope of delivery, you require the following tools:

Tool	Size
Slot-head screwdriver	1x5.5 mm
Cross-head screwdriver	PH 2

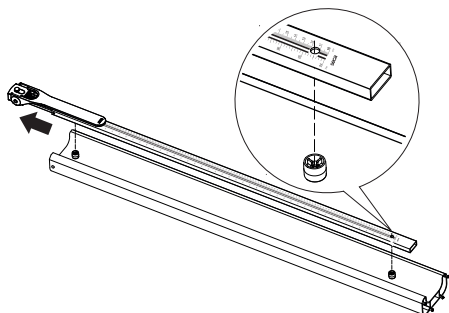
Fitting the measuring rod

Proceed as follows to fit the measuring rod to the column.

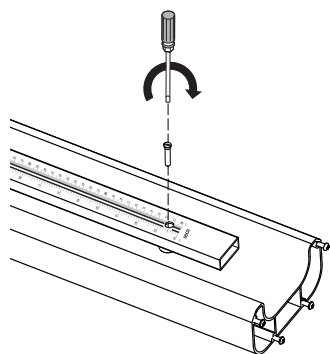
1. Lie the column down on the floor.
2. Place the spacer sleeves on the bores in the column.



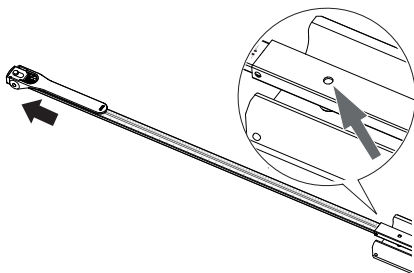
3. Extend the upper telescopic element far enough to expose the lower assembly bore in the lower telescopic element.
4. Position the measuring rod on the spacer sleeves as shown in the diagram.

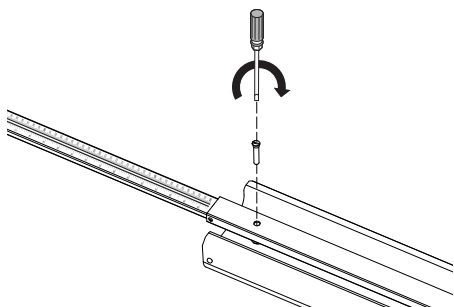


5. Place a slot-head screw in the lower assembly bore and the spacer sleeve underneath it.
6. Tighten the slot-head screw.



7. Extend the upper telescopic element far enough to expose the upper assembly bore in the lower telescopic element.

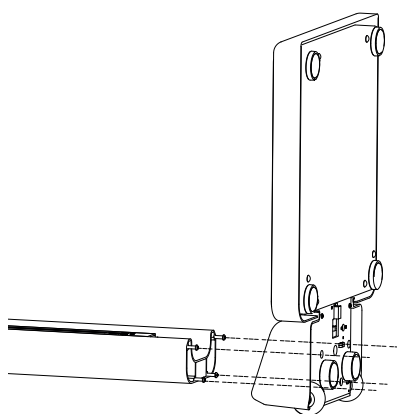




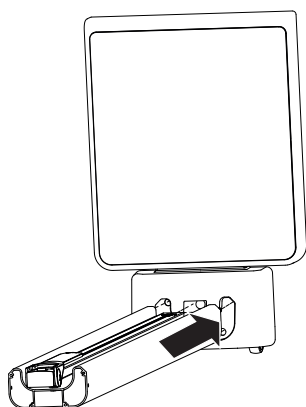
8. Place a slot-head screw in the upper assembly bore and the spacer sleeve underneath it.
9. Tighten the slot-head screw.
10. Push the upper telescopic element into its lowest position.

Fitting the column

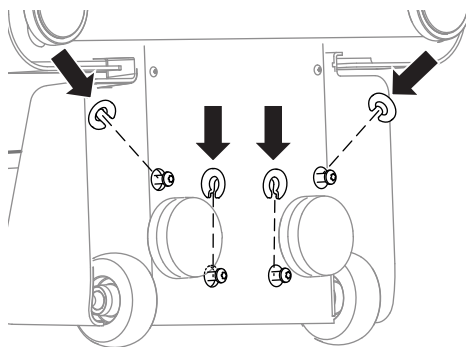
Proceed as follows to fit the column to the weighing platform.



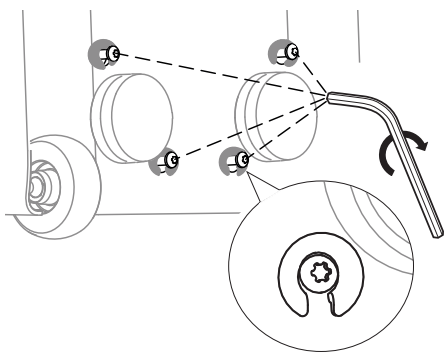
1. Lie the column on the floor and position the weighing platform as shown in the diagram.
2. Hold the weighing platform steady.



3. Push the column and measuring rod into the openings in the column holder of the weighing platform.
The screws on the column protrude from the underside of the weighing platform.



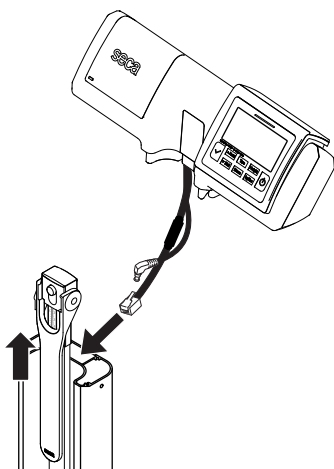
4. Place one lock washer in each of the bores for the screws.



5. Tighten the screws using the T20 hex key supplied (recommended tightening torque: 3 Nm).
6. Set the measuring station in an upright position.

Fitting the display head

Proceed as follows to fit the display head to the column.



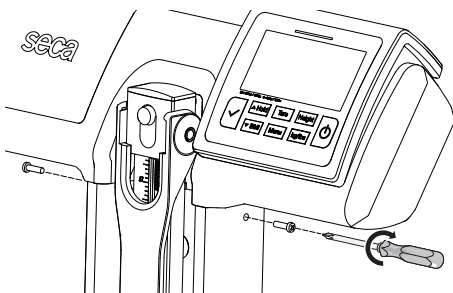
1. Extend the upper telescopic element of the measuring rod approx. 10 cm.
2. Guide the cable(s) of the display head through the center channel of the column as far as the lower part of the device.

NOTE

One or two cables will be present, depending on the model:

- Connecting cable (**seca 787**)
- Connecting cable and display cable (**seca 797**)

3. Put the display head on the column.
4. Push the upper telescopic element into its lowest position.



5. Place one cross-head screw in each of the two side bores of the column.
6. Tighten the cross-head screws.
7. Place the measuring station on the floor with the display unit facing upward.

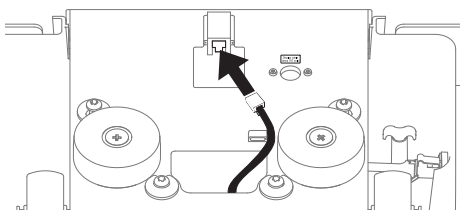
NOTICE!

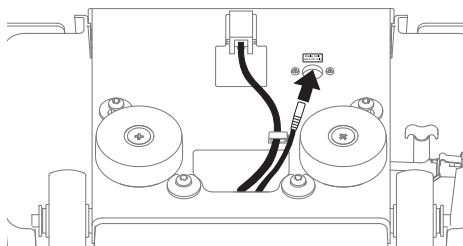
Damage due to assembly faults

If the cables are bent at too sharp an angle, they may be damaged and thus cause a functional failure.

- Route all cables to prevent sharp bends and kinked connectors.

8. Connect the connecting cable:
 - a) Draw the connecting cable out of the column
 - b) Route the connecting cable past the cable clip and insert in the socket on the weighing platform
 - c) Fix the connecting cable in position with the cable clip



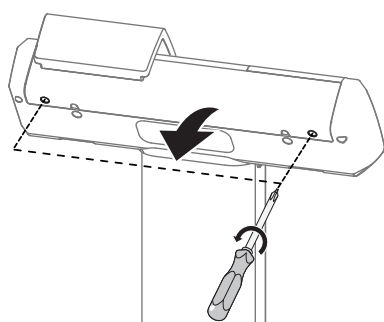
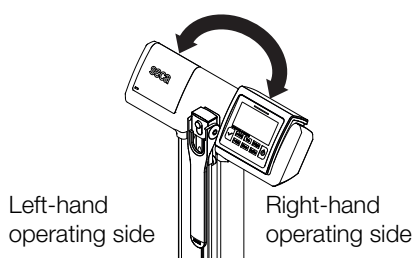


9. **seca 797** only: Connect the display cable:
 - a) Draw the display cable out of the column
 - b) Plug the display cable into the labeled socket
 - c) Fix the display cable in position with the cable clip
10. Set the measuring station in an upright position.

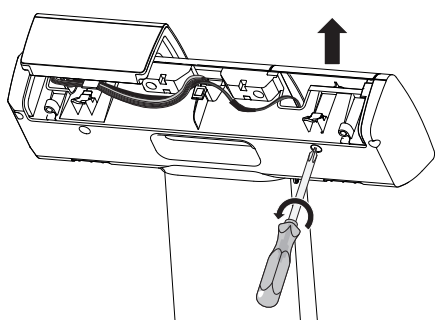
Switching the positions of the display unit and the battery compartment

At the factory, the display unit is fitted to the right-hand operating side of the display head. The battery compartment is on the left-hand operating side.

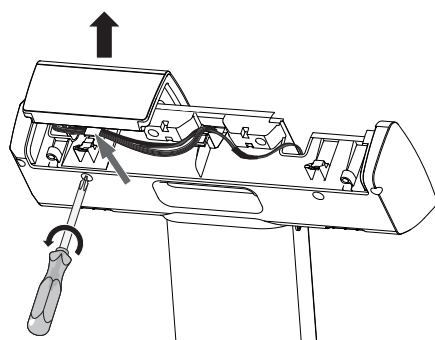
Proceed as follows to switch the positions of the display unit and the battery compartment.



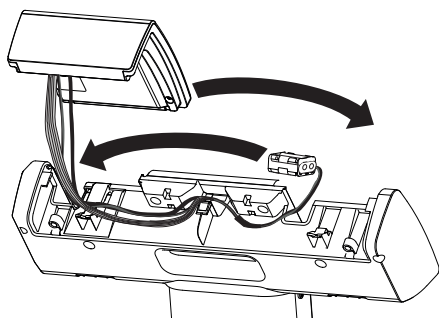
1. Remove the cover panel:
 - a) Unscrew two cross-head screws
 - b) Remove the cover panel



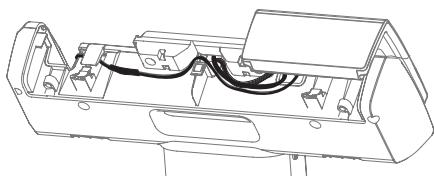
2. Remove the battery compartment lid:
 - a) Hold the battery compartment lid steady
 - b) Remove the cross-head screw behind the battery compartment lid
 - c) Remove the battery compartment lid



3. Remove the display unit:
 - a) Undo the cross-head screw behind the display unit
 - b) Remove cable tie on the cable hook and strain relief, if present
 - c) Draw cables out of the cable hook
 - d) Lift off display unit



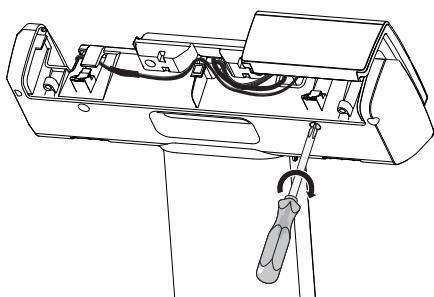
4. Switch the positions of the display unit and the battery holder:
 - a) Put the battery holder in its new position
 - b) Carefully put the display unit in its new position



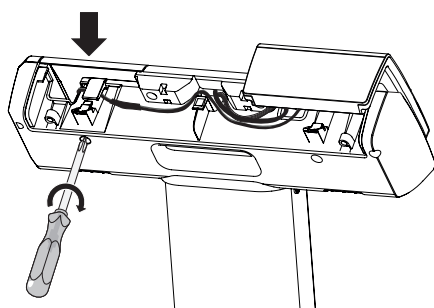
5. Route the cables so that they do not dangle out of the display head.

NOTE

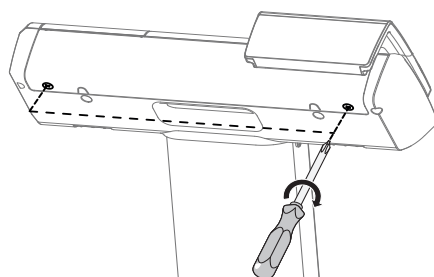
- When fitting on the right-hand operating side: You can gather all the cables into the cable hook and secure them with a cable tie if necessary.
- **seca 797** only: If a barcode scanner is installed, route the barcode scanner cable over the strain relief and secure it with a cable tie if required (→ “Connecting the barcode scanner (seca 797)”, page 25).



6. Fit the display unit:
 - a) Hold the display unit steady
 - b) Tighten the cross-head screw behind the display unit

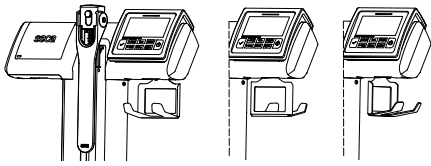


7. Fit the battery compartment lid:
 - a) Insert the battery compartment lid and hold it steady
 - b) Tighten the cross-head screw behind the battery compartment lid

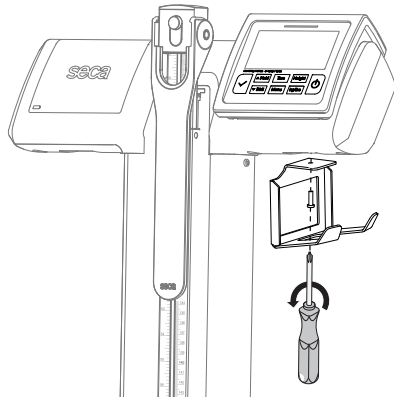


8. Fit the cover panel:
 - a) Insert cover panel
 - b) Place and tighten two cross-head screws

Fitting the barcode scanner holder (seca 797)



The barcode scanner holder can be fitted to either side of the display head. It can be fitted offset by 90° to point forwards, sideways or backwards.



1. Put the barcode scanner holder in the desired position.
2. Fit the barcode scanner holder to the display head using a cross-head screw.

Setting up the device

1. Place the device on a firm, level surface.



CAUTION!

Incorrect measurement as a result of incorrect setup location and incorrect ambient conditions

Soft floors such as wooden hallways, for example, give under the patient's weight and falsify the measuring result. Incorrect ambient conditions lead to measurement errors.

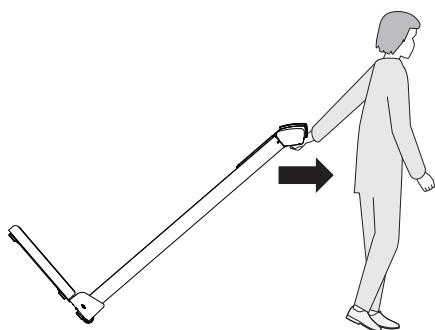
- ▶ Select a setup location with a level, stable floor in order to achieve precise measuring results.
- ▶ Use the device only in the intended ambient conditions (→ "Technical data", page 40).

2. Remove the protective film from the display.

Disinfecting the device

- ▶ Disinfect the following components **before** initial commissioning (→ "Disinfecting", page 37):
 - Column and recessed handle
 - Display head and display unit
 - Measuring rod, head slide with measuring flap
 - Weighing platform

4.4 Transporting the device



The device is equipped with two casters to facilitate transport over short distances.

1. If necessary, remove the plug-in power supply unit from the power socket and from the device.
2. Fold down the measuring flap and push the upper telescopic element of the measuring rod into its lowest position.
3. Take hold of the recessed handle of the device.
4. Tilt the device until it can be moved freely on the casters.
5. Move the device slowly and carefully over door sills.



CAUTION!

Incorrect measurement as a result of incorrect setup location and incorrect ambient conditions

Soft floors such as wooden hallways, for example, give under the patient's weight and falsify the measuring result. Incorrect ambient conditions lead to measurement errors.

- ▶ Select a setup location with a level, stable floor in order to achieve precise measuring results.
- ▶ Use the device only in the intended ambient conditions (→ "Technical data", page 40).

6. Transport the device to its new setup location.
7. Set the device in an upright position.
8. If necessary, plug the plug-in power supply unit into the device and into the power socket (→ "Connecting the plug-in power supply unit (variant-dependent)", page 25).

4.5 Establishing the power supply

Inserting batteries

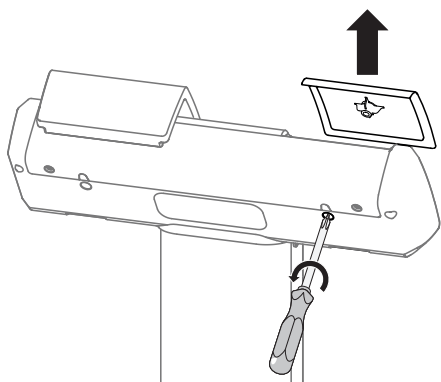
You need six AA-type batteries, 1.5 V.

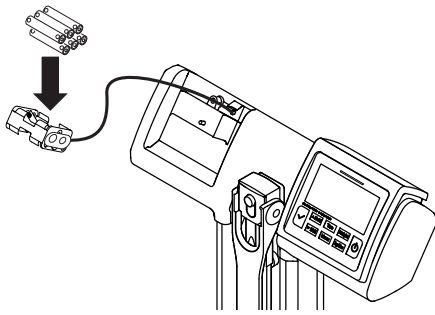
NOTE

If you want to use the WiFi function or a barcode scanner (variant-dependent), the power consumption of the device rises significantly. In these cases, operate the device with the plug-in power supply unit provided.

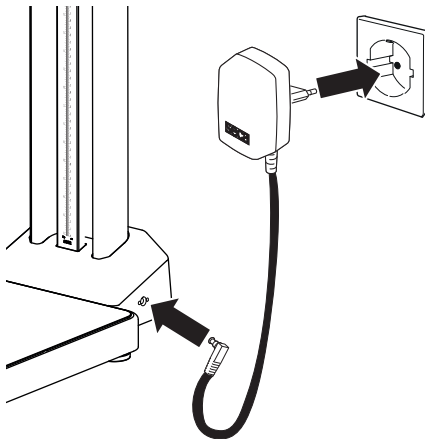
To establish the power supply, proceed as follows:

1. Open the battery compartment:
 - a) Hold the battery compartment lid steady
 - b) Remove the cross-head screw behind the battery compartment lid
 - c) Remove the battery compartment lid





Connecting the plug-in power supply unit (variant-dependent)



- Put the new batteries into the battery holder in the battery compartment.

NOTE

- If replacing batteries: Dispose of the old batteries (→ "Batteries and rechargeable batteries", page 42).
- Ensure the correct polarity of the batteries (markings on the battery holder). If **bAtt** appears in the display, you have inserted one of the batteries the wrong way round or the batteries have discharged. If batteries are inserted the wrong way round, they must be removed again immediately.

- Close the battery compartment:
 - Insert the battery compartment lid
 - Tighten the cross-head screw behind the battery compartment lid

The seca plug-in power supply unit is included in the scope of delivery or is available as an optional accessory depending on variant.



WARNING!

Personal injury or damage to the device as a result of incorrect power supply units

Conventional power supply units may deliver a higher voltage than is indicated on them. The measuring station may overheat, catch fire, melt or short-circuit.

- Use only original seca plug-in power supply units with controlled 12 V output voltage.

The connection for the plug-in power supply unit is located on the side of the column holder. To establish the power supply, proceed as follows:

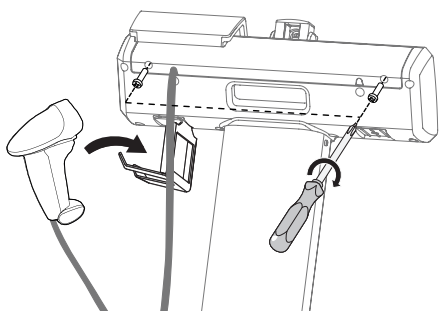
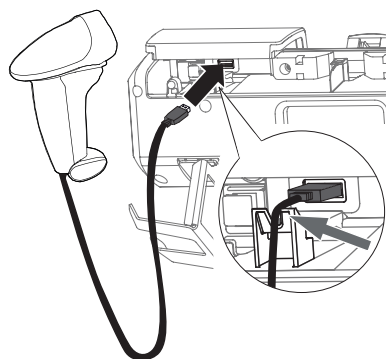
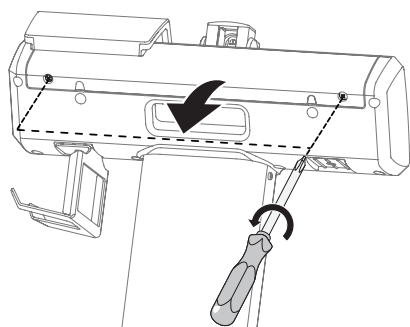
- Insert the connector plug of the plug-in power supply unit into the power supply connection socket of the measuring station.
- Plug the plug-in power supply unit into a power supply socket.

4.6 Connecting the barcode scanner (seca 797)

A barcode scanner can be connected to the USB interface of the measuring station. The barcode scanner can be used to record the ID of the patient and/or the ID of the user.

NOTE

- If you want to use the WiFi function or a barcode scanner (variant-dependent), the power consumption of the device rises significantly. In these cases, operate the device with the plug-in power supply unit provided.
- Observe the maximum permitted current consumption of the barcode scanner (→ "General technical data", page 40).
- Use only barcode scanners recommended by seca (→ "Optional accessories (seca 797)", page 42).



To connect a barcode scanner to the display unit, proceed as follows.

1. Remove the cover panel:
 - a) Unscrew 2 cross-head screws
 - b) Remove the cover panel
2. Connect the barcode scanner:
 - a) Plug the USB connector of the barcode scanner into the USB interface of the display unit
 - b) Route the barcode scanner cable over the strain relief

NOTE

Some barcode scanner cables are very thin and are thus not adequately held in place.

- Additionally fix the barcode scanner cable in the bores on the strain relief using a cable tie.

3. Hang the barcode scanner in the barcode scanner holder.
4. Fit the cover panel:
 - a) Insert cover panel
 - b) Place and tighten 2 cross-head screws

4.7 Setting up the WiFi connection (seca 797)

Setting the WiFi function



1. Switch on the measuring station (→ “Switching on the device”, page 28).
2. Select the **rF** menu item (→ “Navigating in the menu”, page 34).
3. Confirm your selection.
4. Select the **SYS** menu item.
5. Confirm your selection.
The current setting is displayed.
6. Select the desired setting:

Option	Effect
On	WiFi function is activated with power supply operation, is deactivated with battery operation
OFF	WiFi function deactivated

Option	Effect
PErM	WiFi function is activated with power supply operation and battery operation (leads to increased power consumption in battery operation)

- Confirm your selection.
You exit the menu automatically.

Connecting the device to the WiFi network (WPS)



Connect your device to the WiFi network via WPS if you have access to the WiFi router.

- Select the **rF** menu item (→ “Navigating in the menu”, page 34).
- Activate the WPS function of your WiFi router as described in the instructions for use for your WiFi router.
- Select the **Lrn** menu item.

The  symbol flashes.

The device connects to the WiFi router of the WiFi network.

As soon as the device is connected to the WiFi network, the  symbol is permanently on.

NOTE

Further settings need to be made to enable the transmission of measured data to an EMR system via the **seca connect 103** software.

- Follow the System instructions for use for the **seca connect 103**.

Connecting the device to the WiFi network (seca connect 103)

Connect your device to the WiFi network via the **seca connect 103** software if you do not have access to the WPS function of the WiFi router or want to incorporate several devices.

- Connect the barcode scanner to the device (→ “Connecting the barcode scanner (seca 797)”, page 25).
- Enter the data for the WiFi network in the **seca connect 103** software as described in the System instructions for use for the software.
- Scan the QR code generated in the software.

The  symbol flashes.

The name of the network and the password for the WiFi network are saved in the device.

The device connects to the WiFi router of the WiFi network.

As soon as the device is connected to the WiFi network, the  symbol is permanently on.

NOTE

Further settings need to be made to enable the transmission of measured data to an EMR system via the **seca connect 103** software.

- Follow the System instructions for use for the **seca connect 103**.

5. OPERATION

5.1 Switching the device on and off

Switching on the device



1. Ensure that there is no load on the measuring station.
2. Press the on/off key.
All the elements of the display are shown briefly, then **seca** appears in the display.
The measuring station is operational when **0.0** is displayed.

Switching off the device



- Press the on/off key.

NOTE

In battery operation, the measuring station remains on standby for 30 seconds (factory setting). If there is no input or no load is put on the weighing platform during standby time, the measuring station switches off automatically.

5.2 Switching units of measurement (variant-dependent)



CAUTION!

Patient hazard

In order to avoid misinterpretations, measuring results for medical use must be displayed and used in SI units (weight: kilogrammes, length: metres) only. Some devices offer the ability to display measuring results in other units. This is only an additional function.

- Use the results exclusively in SI units.
- The use of measurement results in non-SI units is the sole responsibility of the user.

You can switch between the metric units kilograms and centimeters and the imperial units pounds and feet/inches during the measurement procedure. The units of weight and height change at the same time.



1. Switch on the measuring station (→ “Switching on the device”, page 28).
2. Keep the **kg/lbs** key depressed until the unit of measurement display changes.

5.3 Measuring weight

Weighing



CAUTION!

Injury from incorrect position of the measuring flap

Injuries may result if the measuring flap is at patient height when folded up.

- Ensure that the measuring flap is above patient height before the patient steps onto the weighing platform.



CAUTION!

Incorrect measurement as a result of force shunt

If the patient is in contact with parts other than the weighing platform during the weight measurement, measuring results will be incorrect.

- Ensure that the patient is in contact only with the weighing platform during weight measurement.



1. Switch on the measuring station (→ “Switching on the device”, page 28).
2. Ask the patient to step onto the weighing platform:
 - Do not touch the measuring rod
 - Do not touch the column and the display head
3. Read off the measuring result.

Taring off additional weight (Tare)

Use the **Tare** function to prevent an additional weight (e.g. a walking stick) affecting the patient's weight value.



CAUTION!

Incorrect measurement as a result of force shunt

If an additional weight is in contact with the surface on which the device is resting, measuring results will be incorrect.

- Make sure that additional weights are placed only on the weighing platform.

NOTE

The maximum weight which can be displayed is reduced by the weight of the objects which have been tared off.



1. Switch on the measuring station (→ “Switching on the device”, page 28).
2. Place the additional weight on the weighing platform.

3. Press the **Tare** key.
The message **NET** is displayed.

4. Wait until the display unit stops flashing and **0.0** is displayed instead.

NOTE

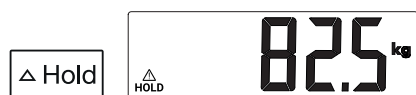
If you remove the additional weight again, - - - - will be displayed.

5. Ask the patient to step onto the weighing platform with the additional weight (or carrying the additional weight).
The patient's weight is displayed. The additional weight is deducted automatically.
6. Read off the measuring result.
7. To deactivate the **Tare** function, press the **Tare** key.

NOTE

When you switch off the measuring station, the **Tare** function is deactivated automatically.

Displaying weight permanently (Hold)



If you activate the **Hold** function, the weight value is displayed permanently.

1. Press the $\triangle$ **Hold** key.
The display flashes until a stable weight is measured. The weight value is displayed permanently. The message $\triangle$ **HOLD** is displayed.
2. Read off the measuring result.
3. To deactivate the **Hold** function, press the $\triangle$ **Hold** key.

NOTE

You can set which action automatically clears the displayed weight value from the display (→ "Setting permanent display of weight value (HOLD)", page 34).

5.4 Measuring height

You can measure height using the integrated measuring rod.



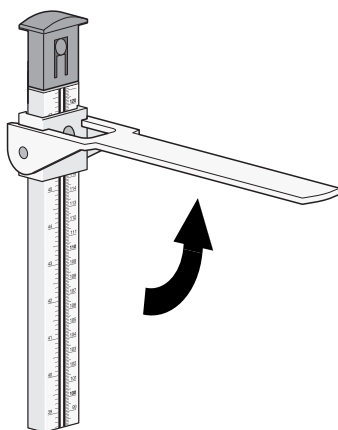
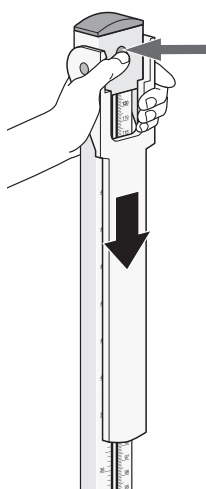
CAUTION!

Injury from incorrect position of the measuring flap

Injuries may result if the measuring flap is at patient height when folded up.

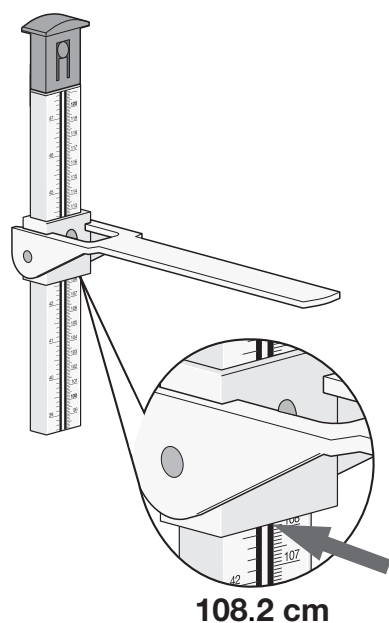
- ▶ Ensure that the measuring flap is above patient height before the patient steps onto the weighing platform.

Measuring heights < 1.22 m



When measuring heights < 1.22 m, the measuring result is read off under the head slide (read-off edge 1).

1. Ensure that the upper telescopic element is in its lowest position.
2. Release the head slide by pressing on the latch and moving the head slide downward.
3. Fold up the measuring flap until it engages in a horizontal position.
4. Ask the patient to stand under the measuring flap:
 - Upright posture
 - Head straight (Frankfort horizontal plane, parallel to measuring flap)
5. Push the head slide on the lower telescopic element down until the measuring flap is in contact with the patient's head.



108.2 cm

Entering height value (Height)



Measuring heights > 1.22 m

6. Read off the measuring result below the head slide (read-off edge 1) (in this case: 108.2 cm).
You have the following options for continuing:
 - ▶ Make a note of the measuring result
 - ▶ Enter the measuring result on the display unit (→ “Entering height value (Height)”, page 31)
7. Ask the patient to step off the weighing platform.
8. Fold down the measuring flap.
9. Push up the head slide until it engages in the latch.

If you are measuring in the range < 1.22 m, the height value can be entered on the display unit and used for the following functions:

- Calculating BMI (→ “Calculating and displaying body mass index (BMI)”, page 33)
- Transmitting measured values to the **seca connect 103** software via WiFi (→ “Scanning ID(s) and transmitting data via WiFi (seca 797)”, page 33)

1. Determine the height value (→ “Measuring heights < 1.22 m”, page 30).
2. Press the **Height** key.
The message **SEt** and the last height value entered are displayed.

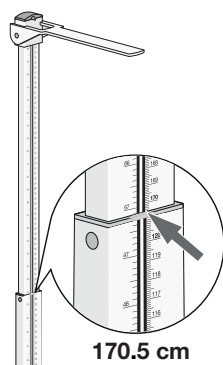
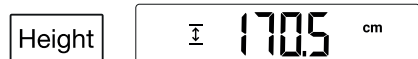
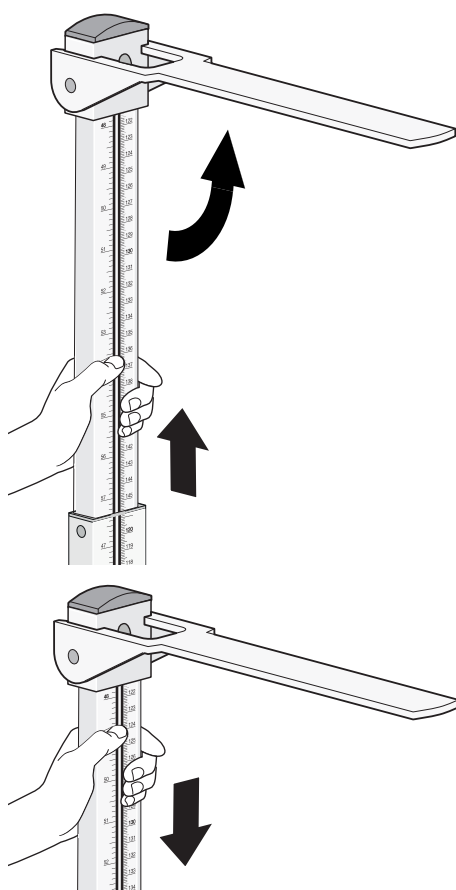
3. Use the **△ Hold** and **▽ BMI** keys to enter the height value.
4. Press the confirm key .
The height value is displayed permanently.

When measuring heights > 1.22 m, the measuring result is recorded digitally and shown in the display.

NOTE

During height measurement, the display on the display unit changes as follows:

- The height value in the display changes as long as you are moving the upper telescopic element.
- The height value flashes as soon as you stop moving the telescopic element.
- After approx. 20 s, the height value stops flashing and - - - - is displayed. If the height value is to be displayed permanently, it is sufficient to press the **Height** key.



1. Fold up the measuring flap until it engages in a horizontal position.
2. Extend the upper telescopic element until the patient can get under the measuring flap comfortably.
3. Ask the patient to stand under the measuring flap:
 - Upright posture
 - Head straight (Frankfort horizontal plane, parallel to measuring flap)

4. Push the upper telescopic element down until the measuring flap is in contact with the patient's head.
The height value flashes in the display.

5. Press the **Height** key.
The height value and the H symbol are permanently displayed.
6. Read off the measuring result.

NOTE

- You can also read off the measuring result on the lower telescopic element (read-off edge 2).

7. To exit permanent display of the measuring result, press the **Height** key.
The height value flashes in the display.
8. Ask the patient to step off the weighing platform.
9. Push the upper telescopic element into its lowest position.
10. Fold down the measuring flap.

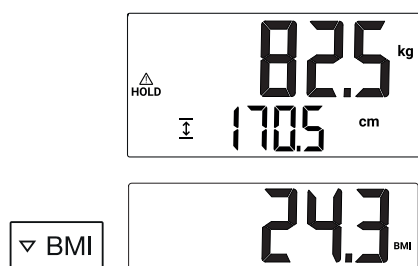
5.5 Calculating and displaying body mass index (BMI)

Body mass index puts height and weight in a relationship to one another.

1. Determine the patient's weight value (→ "Measuring weight", page 29).
2. Press the Δ **Hold** key.
The weight value is displayed permanently in the display.

NOTE

When the **Autohold** function is active, the weight value is automatically displayed permanently.



3. Determine the patient's height value (→ "Measuring height", page 30).
The height value is displayed permanently in the display.
4. Press the ∇ **BMI** key.
BMI is calculated and displayed automatically.
5. To deactivate the **BMI** function, press the ∇ **BMI** key.
The display returns to height and weight value.

NOTE

The display automatically returns to height and weight value after approx. 10 s.

5.6 Scanning ID(s) and transmitting data via WiFi (seca 797)



The internal interface module of the device connects the measuring station to an EMR system wirelessly via the **seca connect 103** software.

A barcode scanner can be used to record the ID of the patient and/or the ID of the user. The measuring results are transmitted to the electronic patient file via a WiFi connection via the **seca connect 103** software.

The following conditions need to be met in order to use these functions:

- WiFi function of the device is active
- Device is connected to an EMR system via the **seca connect 103** software
- Barcode scanner is connected to the device

The measurement procedure consists of the following steps:

- Record ID(s) using barcode scanner
- Record weight value and/or height value
- Transmit measuring results to **seca connect 103** software

NOTE

- The height value must be displayed permanently (**Height** key) in order for it to be able to be transmitted to the **seca connect 103** software by WiFi.
- The measurement procedure can be adapted on an individual basis. The options which are active depend on the settings made in the **seca connect 103** software.

- ▶ Follow the System instructions for use for the **seca connect 103**.
- ▶ Contact your administrator or hospital technician.

5.7 Other functions (menu)

Other functions and settings are available in the menu for the measuring station.

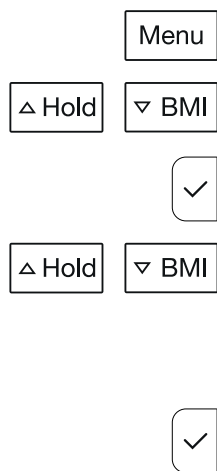
A summary of the menu structure can be found in the section entitled "Overview":

- **seca 787**: → "Menu structure (seca 787)" (page 14)
- **seca 797**: → "Menu structure (seca 797)" (page 14)

NOTE

seca 797 only: Explanation of the functions under the **rF** menu item:
→ "Setting up the WiFi connection (seca 797)" (page 26).

Navigating in the menu



1. Keep the **Menu** key depressed until a menu item is displayed.
The last menu item selected is displayed.
2. Press the **Δ Hold** or **▽ BMI** key until the desired menu item is displayed.
3. Confirm the selection by pressing the confirm key.
The current setting for the menu item (or a submenu item) is displayed.
4. To change the setting, press the **Δ Hold** or **▽ BMI** key until the desired setting is displayed.

NOTE

To increase or reduce a numerical value more quickly, you can press and hold the **Δ Hold** or **▽ BMI** key.

5. Confirm the setting by pressing the confirm key.
You exit the menu automatically.

NOTE

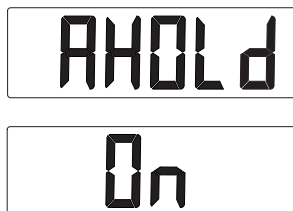
- In order to switch to the menu above without changing a setting/to exit the menu, briefly press the **Menu** key.
- If no key is pressed for a few seconds, you exit the menu automatically.

Activating/deactivating the Autohold function (AHOLD)

If the **Autohold** function is active, the weight value is automatically displayed permanently. It is then no longer necessary to press the **Δ Hold** key.

NOTE

You can set which action automatically clears the displayed weight value from the display (→ "Setting permanent display of weight value (HOLD)", page 34).



1. Select the **AHOLD** item from the menu.
2. Confirm your selection.
The current setting is displayed.
3. Select the desired setting:
 - **On**
 - **OFF**
4. Confirm your selection.
You exit the menu automatically.

Setting permanent display of weight value (HOLD)

If the **Autohold** function is activated or you have pressed the **Δ Hold** key, the weight value is displayed permanently. You can set when the display of weight value is automatically cleared again.



1. Select the **HOLD** item from the menu.
2. Confirm your selection.
The current setting is displayed.
3. Select the desired setting:
 - **HOLD 1**: A new load on the measuring station clears the display value
 - **HOLD 2**: Removing the load from the measuring station clears the display value
4. Confirm your selection.
You exit the menu automatically.

Setting filtering (FIL)



- Filtering reduces interference (due to patient movement, for example) when measuring weight. You can modify the strength of filtering.
1. Select the **FIL** item from the menu.
 2. Confirm your selection.
The current setting is displayed.
 3. Select a filtering level:
 - **0**: Low filtering
 - **1**: Moderate filtering
 - **2**: High filtering
 4. Confirm your selection.
You exit the menu automatically.

Setting standby time (AOFF)

In battery operation, the measuring station remains on standby for 30 seconds (factory setting). If there is no input or no load is put on the weighing platform during standby time, the measuring station switches off automatically. Measuring results will be discarded.

You can adjust standby time as follows:

Function	Setting
Factory setting	30 seconds
Increment	30 seconds
Minimum standby time	30 seconds
Maximum standby time	600 seconds (10 minutes)



1. Select the **AOFF** item from the menu.
2. Confirm your selection.
The time currently set is displayed (in this case: 30 seconds).
3. Select the desired time:
 - ▶ To increase value: Press Δ **Hold** key
 - ▶ To reduce value: Press ∇ **BMI** key
4. Confirm your selection.
You exit the menu automatically.

Activating/deactivating switching of units of measurement (Unlt) (variant-dependent)

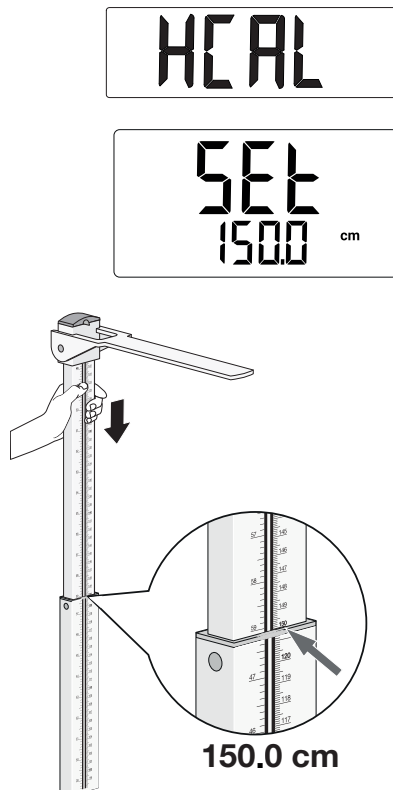


With some device variants, you can switch units of measurement using the **kg/lbs** key. You can switch the function of the key on and off.

1. Select the **Unlt** item from the menu.
2. Confirm your selection.
The current setting is displayed.
3. Select the desired setting:
 - **On**
 - **OFF**

4. Confirm your selection.
You exit the menu automatically.

Calibrating measuring rod (HCAL)



If the value displayed in the display deviates from the value shown on read-off edge 2, calibrate the measuring rod.

1. Select the **HCAL** item from the menu.
2. Confirm your selection.
SEt and **150.0 cm** are displayed.
3. Set the measuring rod to 150 cm.
4. Confirm the setting.
The measuring rod is calibrated.
You exit the menu automatically.

Restoring factory settings (rESET)

If you restore the factory settings (variant-dependent), the settings for the following functions will be reset:

- Autohold (**AHOLd**)
- Permanent display of weight value (**HOLd**)
- Filtering (**FIL**)
- Standby time (**AOFF**)
- Switching units of measurement (**Unit**)

Units of height and weight are reset to metric units.

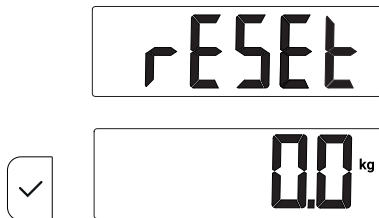
NOTE

seca 797 only: If you restore the factory settings, the WiFi settings will be retained.



1. Select the **rESET** item from the menu.
2. Confirm your selection.
You exit the menu automatically.
3. Switch off the measuring station.
Factory settings are restored and are available when the measuring station is switched back on.

Resetting WiFi settings (rESeT) (seca 797)



If you reset the WiFi settings, the following information will be cleared:

- Network name (SSID)
- Network code

NOTE

If you reset the WiFi settings, the factory settings for the measuring station will also be restored automatically. The factory settings will be available once the measuring station has been restarted.

1. Select the **rESeT** item from the menu.
2. Keep the confirm key depressed for approx. 6 s until **0.0** is displayed. The WiFi settings are reset.

6. HYGIENE TREATMENT



WARNING!

Electric shock

The device is not de-energized when the on/off key is pressed and the display goes out. Use of fluids on the device may cause electric shock.

- ▶ Ensure that the device is switched off before performing any hygiene treatment.
- ▶ Disconnect the power supply connector before performing any hygiene treatment.
- ▶ Before each hygiene treatment, take the rechargeable battery out of the device (if present and removable).
- ▶ Ensure that no fluids penetrate the device.

NOTICE!

Damage to device

Inappropriate detergents and disinfectants may damage the sensitive surfaces of the device.

- ▶ Do not use caustic or abrasive detergents.
- ▶ Do not use organic solvents (e.g. white spirit or petroleum spirit).

6.1 Cleaning

- ▶ Use a soft cloth dampened with mild soapsuds to clean the surfaces of the device.

6.2 Disinfecting

1. Disinfect the device with an alcohol-based disinfectant at regular intervals.
2. Follow the instructions for use for the disinfectant.
3. Disinfect the device:
 - ▶ Moisten a soft cloth with disinfectant and wipe down the device with it.
 - ▶ Comply with the intervals: See table.

Interval	Component
Before every measurement	• Weighing platform • Head slide with measuring flap
After every measurement	• Weighing platform • Head slide with measuring flap
As required	• Column and display head of measuring station • Telescopic elements of the measuring rod • Recessed handle

6.3 Sterilizing

This device may not be sterilised.

7. FUNCTION CHECK

- Perform a function check prior to each use.

A complete function check includes:

- Visual inspection for mechanical damage
- Checking the alignment of the device
- Visual and function check of the display elements
- Function check of all the controls shown in the section entitled “Overview”
- Function check of optional accessories

If you notice any faults or deviations during the function check, first try to resolve the error with the aid of the section entitled “Troubleshooting” in this document.



CAUTION! **Personal injury**

If you notice any faults or deviations during the function check which cannot be resolved with the aid of the section entitled “Troubleshooting” in this document, you may not use the device.

- Have the device repaired by seca Service or by an authorized service partner.
- Follow the section entitled “Servicing” in this document.

8. TROUBLESHOOTING

8.1 General faults

Problem	Cause	Remedy
No weight display with a load	The device has no power supply	• Switch on the measuring station • In the case of battery operation: Insert batteries • In the case of power supply operation: Connect the plug-in power supply unit
0.0 does not appear before weighing	A load was already on the device before it was switched on	• Take the load off the measuring station • Switch off the measuring station, then switch it back on again

17-10-07-652-100/05-2019B

Problem	Cause	Remedy
----- appears before weighing	A load was already on the device before it was switched on	- Take the load off the measuring station - Switch off the measuring station, then switch it back on again
The weight display flashes	Consistent weight value has not yet been detected	- One of the following functions is active: Hold, Autohold, Tare. Wait until the measuring station has detected a consistent weight value. The display unit stops flashing. - Take the load off the measuring station, wait until 0.0 is displayed and weigh again
One display segment is displayed continuously or not at all	The display is defective	Inform seca Service
 is displayed	Battery voltage is dropping	Change the batteries
bAtt is displayed	The batteries have discharged	Change the batteries
StOP is displayed	Maximum capacity has been exceeded	Take the load off the measuring station
Er:[No.]:11 is displayed	The device has too high a load or too high a load in one corner	- Remove the load from the measuring station or distribute the weight more evenly - Switch off the measuring station, then switch it back on again - If the problem persists, inform seca Service
Er:[No.]:12 is displayed	The device has been switched on with too high a load	- Take the load off the measuring station - Switch off the measuring station, then switch it back on again
Er:[No.]:16 is displayed	The device was caused to oscillate, the zero point could not be determined	Switch off the measuring station, then switch it back on again
Er:[No.]:32 is displayed	An internal communication error has occurred	- Switch off the measuring station, then switch it back on again - Ensure that the display cable is connected correctly (seca 797) - If the problem persists, inform seca Service

8.2 Problems with data transmission (interface module)

NOTE

Follow the System instructions for use of the **seca connect 103** software and the instructions for use for the barcode scanner.

Problem	Cause	Remedy
Workflow LED does not come on	seca 787 : No external interface module (optional accessory) installed	Order optional accessory seca 452
	seca 787 with seca 452 : No connection to network	Contact your administrator or hospital technician
	seca 797 : The WiFi function is deactivated	Activate WiFi function
	Workflow LED is defective	- Contact your administrator or hospital technician - Inform seca Service
The Workflow LED illuminates in red, the measuring result is displayed	Errors occurred during data transmission	- Ask the patient to get off the seca measuring device and wait until the Workflow LED goes out - Repeat measurement procedure - If the problem persists, contact your administrator or hospital technician

Problem	Cause	Remedy
The Workflow LED illuminates in red, an error code (Er:8:[No.]) is displayed	Errors occurred during the measurement procedure or data transmission	• Contact your administrator or hospital technician
Er:8:94 is displayed	An error occurred during the measurement procedure: IDs were scanned at the wrong time	• Cancel measurement procedure • Repeat measurement procedure and observe proper sequence • If the problem persists, contact your administrator or hospital technician
Er:8:95 is displayed	Hardware fault	• Contact your administrator or hospital technician • Inform seca Service
The rF menu item is not visible (seca 797)	The internal interface module of the device is defective	• Inform seca Service
In the rF menu, only the SYS menu item is visible	The WiFi function is deactivated	• Activate WiFi function
Id:Er is displayed	The ID of the user or the patient has not been found in the EMR system	• Rescan ID • If the problem persists, contact your administrator or hospital technician

9. SERVICING

The product must be set up carefully and serviced regularly. Depending on how frequently the product is used, we recommended servicing at intervals of 3 to 5 years.



CAUTION!

Incorrect measurements as a result of poor servicing

- ▶ Have servicing and repairs carried out exclusively by seca Service or by an authorized service partner.
- ▶ You can find service partners in your area at www.seca.com or by sending an e-mail to service@seca.com.

10. TECHNICAL DATA

10.1 General technical data

General technical data	
Dimensions	
• Depth	576 mm
• Width	408 mm
• Height (measuring rod not extended)	1358 mm
Weight of measuring station	Approx. 13.1 kg
Ambient conditions, operation	
• Temperature	+10 °C to +40 °C / +50 °F to 104 °F
• Air pressure	700 – 1060 hPa
• Humidity	30 % – 80 %, no condensation
Ambient conditions, storage	
• Temperature	-10 °C to +65 °C / +14 °F to 149 °F
• Air pressure	700 – 1060 hPa
• Humidity	0 % – 95 %, no condensation

17-10-07-652-100/05-2019B

General technical data	
Ambient conditions, transport • Temperature • Air pressure • Humidity	-10 °C to +65 °C / +14 °F to 149 °F 700 – 1060 hPa 0 % – 95 %, no condensation
Power supply (variant-dependent) • Batteries - Supply voltage - Battery type • Plug-in power supply unit - Supply voltage - Maximum current consumption - Insulated device, protection class II (EN 60601-1)	9 V 6 x type AA, 1.5 V 12 V typically 500 mA 
Supply voltage	100 V – 240 V
Power supply frequency	50 Hz – 60 Hz
Current consumption • seca 787 • seca 797 - WiFi function and USB interface deactivated - WiFi function and USB interface activated	approx. 55 mA approx. 55 mA approx. 250 mA
Maximum runtime in battery operation • seca 787 • seca 797 - WiFi function and USB interface deactivated - WiFi function and USB interface activated	approx. 32 hours approx. 32 hours < 5 hours, plug-in power supply unit recommended
USB interface (seca 797) • Current consumption of the barcode scanner (optional accessory)	max. 500 mA
Metrology data, measuring rod • Measuring range 1 • Measuring range 2 • Graduations • Accuracy	10 cm – 122 cm (4 inch – 48 inch) 122 cm – 230 cm (48 inch – 90.5 inch) 1 mm (1/8 inch) ± 5 mm
Medical device in accordance with Directive 93/42/EEC	Class I with measuring function
EN 60601-1: Medical electrical device, Type B	
Type of protection	IP20
Duty cycle	Continuous duty

10.2 Weighing data

Weighing data	
Maximum capacity	250 kg/550 lbs
Minimum capacity	0.2 kg/0.4 lbs
Increments	0.1 kg/0.2 lbs
Tare range	up to 250 kg (subtractive)
Accuracy • 0 kg to 70 kg (0 lbs to 132 lbs) • 70 kg to 250 kg (132 lbs to 551 lbs)	± 100 g (0.22 lbs) ± 0.15 %

11. OPTIONAL ACCESSORIES (SECA 787)

Accessory	Article number
Power supply • Switch-mode power supply: 100–240 V~ / 50–60 Hz, 12 V= / 0.5 A	68-32-10-270
Integration • External interface module seca 452 • seca connect 103 software • Barcode scanner (medical device)	452-0060-009 Will be provided in the course of integration projects Cannot be ordered through seca; for recommendations, see System instructions for use for seca connect 103

12. OPTIONAL ACCESSORIES (SECA 797)

Accessory	Article number
Integration • seca connect 103 software • Barcode scanner (medical device)	Will be provided in the course of integration projects Cannot be ordered through seca; for recommendations, see System instructions for use for seca connect 103

13. SPARE PARTS (SECA 797)

Accessory	Article number
Power supply • Switch-mode power supply: 100–240 V~ / 50–60 Hz, 12 V= / 0.5 A	68-32-10-270

14. DISPOSAL

14.1 Device



Do not dispose of the device with household waste. The device must be disposed of properly as electronic waste. Comply with the national provisions applicable in your country. For further information contact our service department at:

service@seca.com

14.2 Batteries and rechargeable batteries



Spent (rechargeable) batteries should not be discarded with household waste, regardless of whether they contain harmful substances or not. As a consumer you are obliged by law to dispose of (rechargeable) batteries via the collection points set up by the municipal authorities or the retail sector. Only discard (rechargeable) batteries when fully discharged.

15. WARRANTY

We offer a two-year warranty from the date of delivery for defects attributable to faulty material or poor workmanship. This excludes all moveable parts such as (rechargeable) batteries, cables, power supply units, etc. Defects which are covered by the warranty shall be rectified free of charge for customers on production of the sales receipt. No further claims can be accepted. The costs

of shipment in both directions shall be borne by the customer where the device is not located at the customer's premises. In the event of any damage during shipment warranty claims can only be asserted where the complete original packaging was used for shipment and the scales were secured inside in the same manner as in the original packaging. You should therefore keep all packaging.

The warranty shall become null and void where the device is opened by persons not expressly authorised to do so by seca.

In the event of a warranty issue, please contact your local seca office or the dealer from whom you ordered the product.

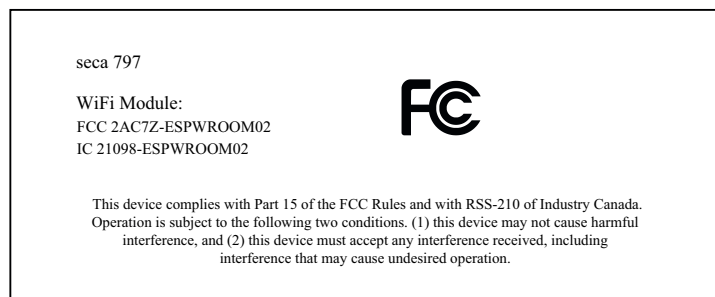
16. DECLARATIONS OF CONFORMITY

16.1 For Europe



seca gmbh & co. kg hereby declares that the product meets the terms of the applicable European directives. The unabridged declaration of conformity can be found at: www.seca.com.

16.2 For USA and Canada



NOTE

This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

NOTE

Changes or modifications made to this equipment not expressly approved by seca may void the FCC authorization to operate this equipment.

NOTE

Radiofrequency radiation exposure information:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 1 m between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Medical Measuring Systems and Scales since 1840

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