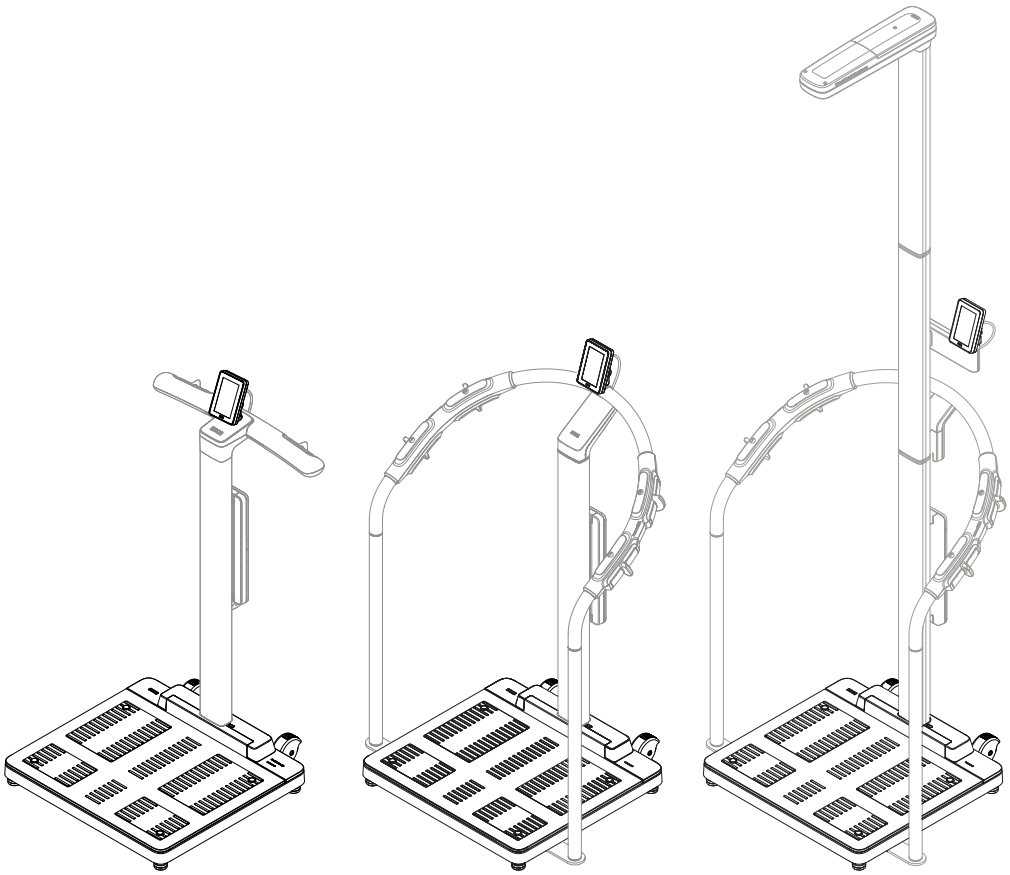
seca
Precision for health

seca mBCA 555/554/552
seca mBCA 550/549
seca mBCA 545/542
seca 257/256

Instructions for Use

17-10-07-655-002c_2026-02S

Firmware version: 1.9



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1 ABOUT THIS DOCUMENT

These instructions for use contain information about the operation of the **seca mBCA 555/554** and **seca mBCA 552** scales and compatible seca products.

The installation of compatible seca products is not part of these instructions for use. An overview of compatible seca products is available here: → Compatible seca products, page 87.

1.1 Representation in text

Symbol	Description
✓	Requirement for actions
▸	Action
1. 2.	Actions with specified sequence
a) b)	Steps of an action with specified sequence
⇨	Result of an action
• •	First level of a list
– –	Second level of a list

1.2 Representation in diagrams

Symbol	Description
	Indicates relevant points on the device or on device components
	Indicates directions of movement of the device or of device components
	Correct action Correct result of action
	Incorrect action Incorrect result of action
	Points to the next step of a procedure
	Points to an element the user is clicking
	End of a procedure, e.g. the installation of a part

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1.3 PDF version

The device menu contains a QR code which can be used to access the PDF version of these instructions for use and to load them e.g. onto your smartphone or tablet PC.

Further information is available here: → Using the PDF version of the instructions for use (QR code), page 46

2 DESCRIPTION OF DEVICE

2.1 Intended use

seca mBCA 555/554/552

The electronic flat scale supports physicians in decision-making regarding diagnosis or therapy based on weight.

The electronic flat scale can be combined with optional accessories and devices to enable the measurements of further parameters, e.g. bioelectrical impedance.

seca mBCA 550/549

The BIA-handrail supports physicians in decision-making regarding diagnosis or therapy based on results of bioelectrical impedance measurements.

The BIA-handrail can be combined with optional accessories and devices to enable the measurements of further parameters.

seca mBCA 545/542

The BIA handle supports physicians in decision-making regarding diagnosis or therapy based on results of bioelectrical impedance measurements.

The BIA handle can be combined with optional accessories and devices to enable the measurements of further parameters.

seca 257/256

The ultrasonic measuring rod supports physicians in decision-making regarding diagnosis or therapy based on height.

2.2 Clinical benefit

seca mBCA 555/554/552

The electronic flat scale supports physicians in decision-making regarding diagnosis or therapy based on parameters measured and calculated (indirect clinical benefit).

seca mBCA 550/549

The BIA-handrail supports physicians in decision-making regarding diagnosis or therapy based on parameters measured and calculated (indirect clinical benefit).

seca mBCA 545/542

The BIA-handle supports physicians in decision-making regarding diagnosis or therapy based on parameters measured and calculated (indirect clinical benefit).

seca 257/256

In conjunction with compatible scales, the measuring rod supports physicians in decision-making regarding diagnosis or therapy based on parameters measured and calculated (indirect clinical benefit).

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2.3 Contraindications

Bioimpedance measurements may **not** be performed on individuals exhibiting the following characteristics:

- Electronic implants, e.g. cardiac pacemakers
- Active prostheses

Bioimpedance measurements may **not** be performed on persons who are connected to one of the following devices:

- Electronic life-support systems, e.g. artificial heart, artificial lung
- Portable electronic medical devices, e.g. ECG devices or infusion pumps

Bioimpedance measurements may only be performed on persons exhibiting the following characteristics after discussion with the attending physician:

- Cardiac arrhythmias
- Pregnancy

2.4 Patient target group

seca mBCA 555/554/552 The scale ist intended for Persons of all ages who do not exceed the maximum capacity of the scale and who can stand independently on the scale – if available – with support of a handrail.

seca mBCA 550/549 The BIA-handrail ist indented for Persons taller than 130 cm. Persons must be able to stand indepentently and upright. Persons also need to be able to reach hand and foot electrodes with all four limbs.

seca mBCA 545/542 The BIA-handle ist indented for Persons taller than 130 cm. Persons must be able to stand indepentently and upright. Persons also need to be able to reach hand and foot electrodes with all four limbs.

seca 257/256 The measuring rod is indented for Persons of all ages (with the exception of babies), whose height lays within its measuring range. Persons must be able to stand independently – if necessary with the help of a handrail – while being measured.

2.5 User qualification

Assembly Devices shipped partly assembled may only be assembled by sufficiently qualified persons (such as specialist dealers, hospital technicians or seca Service technicians).

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

Measuring mode Typical professional background: Physician, health care professional/nurse, therapist, sports instructor/teacher or similar profession.

Users are capable of operating and servicing the device and the software according to the instructions for use. No further training is required. All age groups from adulthood are permitted.

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2.6 Functional description

Measuring weight/ entering height

Weight calculation is performed by four load cells. The measured results are shown on the multifunctional display. Height is entered manually.

Body Mass Index (BMI) or Body Surface Area (BSA) are calculated automatically as soon as a height is entered.

Measuring weight and height

Weight and height can be recorded simultaneously if a compatible measuring rod is fitted to the scale. Body Mass Index (BMI) or Body Surface Area (BSA) are calculated automatically.

The **seca 257/256** measuring rod records height by means of ultrasound. The patient is guided through the measurement using configurable voice output.

Measuring bioimpedance

Bioimpedance is measured by the 8-point method. A low alternating current is introduced via the foot electrodes of the scale (**seca mBCA 555/554**, **seca mBCA 552**) and via hand electrodes (BIA handrail **seca mBCA 550**/**seca mBCA 549**, BIA handle **seca mBCA 545**/**seca mBCA 542**). A bioimpedance measurement can only be started when the weight and height of the patient have been recorded on the device.

No bioimpedance measuring results can be shown on the multifunctional display of the device. The **seca analytics 125** software is required to analyze a bioimpedance measurement.

Network functions

The device can be integrated into a PC network via a LAN interface or via WiFi in order to set up a connection to the **seca analytics 125** software.

The **seca analytics 125** software receives measurement data and processes them in graphical form. The software thus assists the attending physician in analyzing measured results and making a diagnosis.

Compatibility

seca connect 103 configuration software: Version 3.1 or higher, no downward compatibility

seca analytics 125 analysis software: Version 2.3 or higher

3 SAFETY PRECAUTIONS

3.1 Safety information 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.

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3.2 Basic safety information

Handling 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.
- ► In the interest of patient safety, you and your patients are obliged to report serious events that occur in connection with this product to the manufacturer and to the authority responsible in your country.

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 connected to medical electrical 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 edition 3.1 of IEC 60601-1 respectively). Anyone connecting additional devices to medical electrical devices is considered a system configurator and 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.

CAUTION!
Patient hazard, damage to device

- ► 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 user-serviceable parts. Only have servicing and repairs performed by an authorized seca service partner. You can find a service partner in your vicinity at www.seca.com or by emailing service@seca.com.
- ► Use only seca original accessories and spare parts, otherwise seca will not grant any warranty.

CAUTION!
Patient hazard, malfunction

- ► Keep other medical electrical devices, e.g. high-frequency surgical devices, a minimum distance of approx. 1 meter away to prevent faulty measurements or wireless transmission interference.
- ► Keep HF devices such as cellphones at a minimum distance of approx. 1 meter to prevent faulty measurements or wireless transmission interference.
- ► The actual transmission output of HF devices may require minimum distances of more than 1 meter. For details, go to www.seca.com.

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Preventing electric shock

WARNING!
Electric shock

- ► Set up devices which can be operated with a power supply unit so that the power supply socket is within easy reach and the power supply can be disconnected quickly.
- ► Ensure that your local electricity supply matches the details on the power supply unit.
- ► Never touch the power supply unit with wet hands.
- ► Do not use extension cables and multiple outlets.
- ► Ensure that cables are not crushed or damaged by sharp edges.
- ► Ensure 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.
- ► Only devices that are approved as medical devices and that have no separate power supply may be connected to the USB interface.

Preventing injuries and infections

WARNING!
Injury from device falling over
The device is intended as a mobile medical device and is therefore not anchored permanently to a wall or the floor. Combinations of devices with a handrail or measuring rod may fall over if not used properly (e.g. as a “climbing frame”).

- ► Do not leave children or persons with mental or motor impairments unsupervised.
- ► Do not leave pets unsupervised.

WARNING!
Injury from falling

- ► Ensure that the device is steady and level.
- ► Route connector cables (if present) so that neither users nor the patient can trip over them.
- ► The device is not designed for supporting patients when getting up, e.g. from a wheelchair. Assist people with limited motor skills when they are getting up, e.g. from a wheelchair.
- ► Ensure that the patient does not step directly onto or off the edges of the weighing platform.
- ► Ensure that the patient steps onto and off the weighing platform slowly and safely.

WARNING!
Risk of slipping

- ► Ensure that the patient standing area is dry before the patient steps onto it.
- ► Ensure that the patient has dry feet before stepping onto the patient standing area.
- ► Ensure that the patient steps onto and off the patient standing area slowly and safely.

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CAUTION!
Injury, damage to device
The patient standing area consists of a glass plate. Damage (e.g. scratches, cracks or chips) represent a risk of injury. Damage can also lead to the glass plate breaking.

- ► Do not put any sharp-edged objects on the glass plate.
- ► Before using each time, check the glass plate for scratches, cracks and chips. If you find damage of this kind, have the glass plate replaced with a new one.
- ► Do not use the device if the glass plate is damaged.

WARNING!
Risk of infection

- ► Before and after every measurement, wash your hands to reduce the risk of cross-contamination and nosocomial infections.
- ► Subject the device to a hygiene treatment at regular intervals as described in the relevant section of these instructions for use.
- ► Ensure that the patient does not have any infectious diseases.
- ► Ensure that the patient does not have any open wounds or infectious skin alterations which may come into contact with the device.

Preventing damage to device

NOTICE!
Damage to device

- ► Ensure that fluids never get inside the device. These can destroy the electronics.
- ► For devices with power supply operation: Switch off the device before you disconnect the power supply unit from the power supply socket.
- ► For devices with power supply operation: If the device is not to be used for an extended period, disconnect the power supply unit from the power supply socket. Only then is the device de-energized.
- ► For devices with battery or rechargeable battery operation: If you are not using the device for an extended period of time, remove batteries or rechargeable batteries. Only then is the device de-energized.
- ► Do not drop the device.
- ► Do not subject the device to shocks or vibrations.
- ► Perform a function check before each use as described in the corresponding section in this document. Do not operate the device if it is not working properly or is damaged.
- ► Do not place the device in direct sunlight and ensure that it is not placed in the direct proximity of a heat source. The excessive temperatures could damage the electronics.
- ► Avoid rapid temperature fluctuations. If the device is transported so that a temperature difference of over 20 °C occurs, the device must be left to stand for at least 2 hours before it is switched on, otherwise condensation may form; this may damage the electronics.
- ► Use the device only in the intended ambient conditions.
- ► Store the device only in the intended storage conditions.
- ► Use only cleaning agents and disinfectants which match the details in the section entitled “Hygiene treatment”.
- ► For scales: Ensure that maximum capacity is not exceeded.

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Handling measuring results

WARNING!
Patient hazard
To prevent misinterpretations, measuring results for medical purposes must only be displayed and used in SI units (weight: kilograms/grams, height: meters/centimeters). Some devices have the option of displaying measuring results in different units. This is purely an additional function.

- ► Only use measuring results in SI units.
- ► The user takes sole responsibility for the use of measuring results in non-SI units.

NOTICE!
Inconsistent measuring results

- ► Before you save and continue using measured values determined using this device (e.g. in seca software or in an EMR system), ensure that the measured values are plausible.
- ► If measured values have been sent to seca software or to an EMR system, ensure before continuing to use them that the measured values are plausible and assigned to the correct patient.

NOTICE!
Measuring results from other devices not compatible
Bioimpedance measurements performed by devices from different manufacturers are not compatible. Follow-up measurements not performed on a seca device may lead to inconsistent data and to misinterpreted measuring results.

- ► Ensure that follow-up measurements are also performed on a seca device.

NOTICE!
Malfunction caused by other ultrasonic emitters
If there are other ultrasonic emitters in the immediate vicinity of the device - automatic door openers, for example - incorrect measurements will result.

- ► Ensure that there are no other ultrasonic emitters in the same room or in the immediate vicinity of the device.

NOTICE!
Faulty measurement due to reflections
If there are objects or people in the immediate vicinity of the device, incorrect measurements will result.

- ► Ensure that there are no objects or people within 0.5 meters of the front or side of the scale during the measurement procedure.
- ► Ensure that the device is at least 0.2 meters away from the wall.
- ► Ensure that the patient is not wearing any kind of hair accessory on top of their head.

Handling packaging material

WARNING!
Risk of suffocation
Packaging materials made of plastic film (bags) present a risk of suffocation.

- ► Store packaging material out of the reach of children.
- ► If the original packaging material is no longer available, only use plastic bags with safety holes to reduce the risk of suffocation. Use recyclable materials if possible.

NOTE
Store the original packaging material for future use (e.g. returning for servicing).

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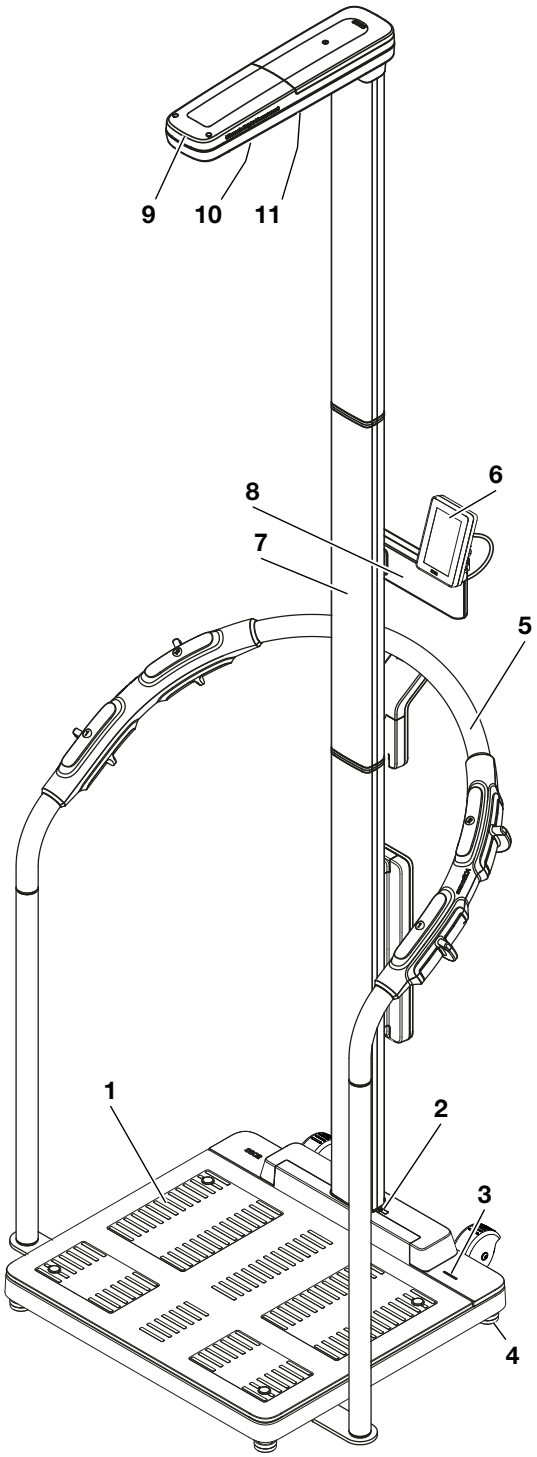
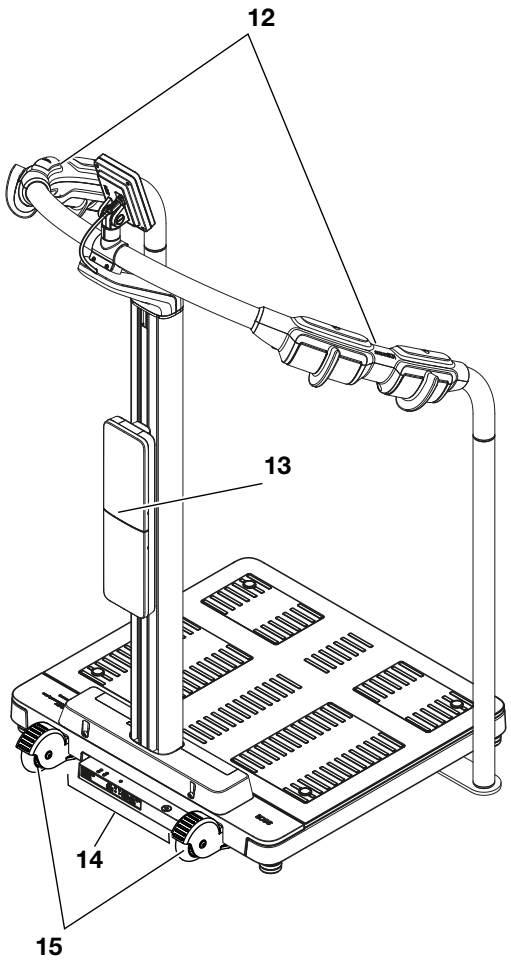
4 OVERVIEW

4.1 Controls, combinations with BIA handrail



Front view with optional BIA handrail and optional measuring rod



Rear view with optional BIA handrail

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Item	Device component	Function
1	Weighing platform	• Records the weight of the patient • With foot electrodes for bioimpedance measurement • Illuminated foot silhouettes for weight and height measurement • Illuminated foot silhouettes for bioimpedance measurement
2	Infrared interface	For functional expansion; no function at present
3	Workflow LED	Indicates the status of data recording and data transmission (requirement: Connection to the **seca analytics 125** software) • Illuminated in green: Workflow active • Flashing green (approx. 5 seconds): Submitting measuring results to the EMR System (depending on setting) • Illuminated in green (approx. 5 seconds): Measuring results successfully submitted to the EMR System (depending on setting) • Illuminated in red (approx. 5 seconds): Error during data transmission or workflow **NOTE** The data recorded and transmitted are specified in the **seca analytics 125** software. If you have any queries, contact your administrator or hospital technician
4	Foot screw	Used for precise alignment of the device (4 pcs)
5	**seca mBCA 550/549** BIA handrail, (optional)	• Used to support patients who are unable to stand securely • With hand electrodes for bioimpedance measurement • For an optimal measuring position for patients ≥ 130 cm • → Compatible seca products, page 87
6	Multifunctional display	Central control and display element • → Symbols on the ID display (main screen), page 16 • → Symbols on the ID display (menu), page 18
7	Bracket for multifunctional display	Used to install the multifunctional display on the measuring rod
8	**seca 257/256** ultrasonic measuring rod (optional)	Used for measuring height → Compatible seca products, page 87
9	Power LED	Indicates the operating status of the measuring rod
10	Ultrasonic sensors	For measuring height
11	Loudspeaker	For voice output
12	Hand electrodes	For bioimpedance measurement (2 pairs per side)
13	BIA box	Contains measurement technology and connections for bioimpedance measurement
14	Connection panel	Used for power supply and data transmission
15	Caster	Used for transporting over short distances (2 pcs)

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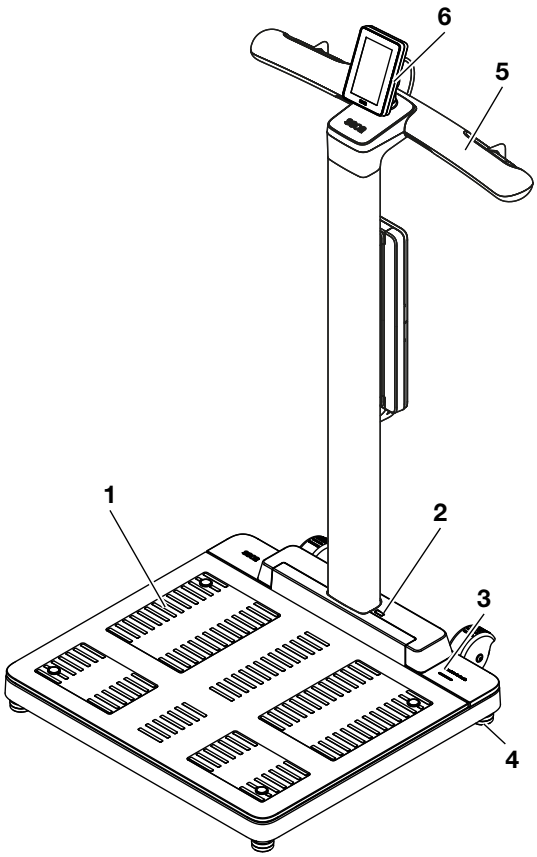
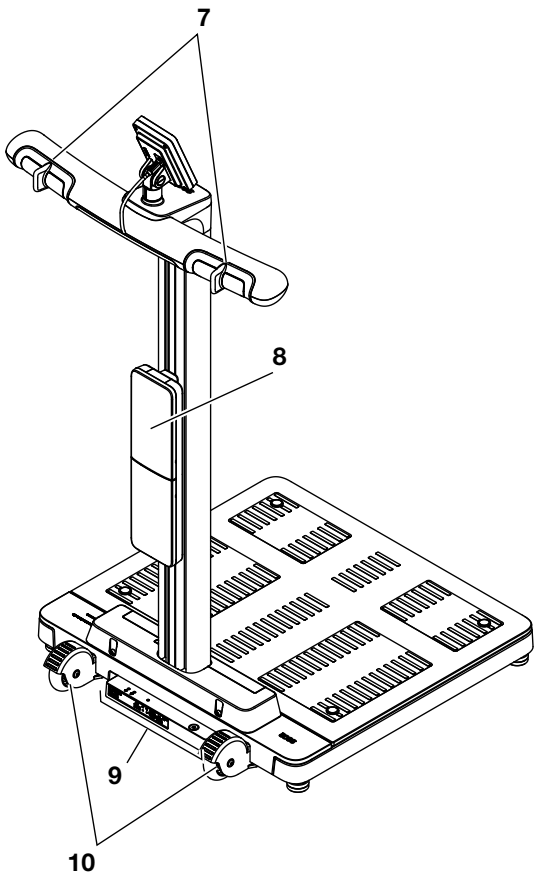
4.2 Controls, combinations with BIA handle



Front view with optional BIA handle



Rear view with optional BIA handle

Item	Device component	Function
1	Weighing platform	• Records the weight of the patient • With foot electrodes for bioimpedance measurement • Illuminated foot silhouettes for weight and height measurement • Illuminated foot silhouettes for bioimpedance measurement
2	Infrared interface	For functional expansion; no function at present
3	Workflow LED	Indicates the status of data recording and data transmission (requirement: Connection to the **seca analytics 125** software) • Illuminated in green: Workflow active • Flashing green (approx. 5 seconds): Submitting measuring results to the EMR System (depending on setting) • Illuminated in green (approx. 5 seconds): Measuring results successfully submitted to the EMR System (depending on setting) • Illuminated in red (approx. 5 seconds): Error during data transmission or workflow **NOTE** The data recorded and transmitted are specified in the **seca analytics 125** software. If you have any queries, contact your administrator or hospital technician
4	Foot screw	Used for precise alignment of the device (4 pcs)
5	**seca mBCA 545/542** BIA handle, (optional)	• Used to support patients who are unable to stand securely • With hand electrodes for bioimpedance measurement • For an optimal measuring position for patients ≥ 130 cm • → Compatible seca products, page 87

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Item	Device component	Function
6	Multifunctional display	Central control and display element • → Symbols on the ID display (main screen), page 16 • → Symbols on the ID display (menu), page 18
7	Hand electrodes	For bioimpedance measurement
8	BIA box	Contains measurement technology and connections for bioimpedance measurement
9	Connection panel	Used for power supply and data transmission
10	Caster	Used for transporting over short distances (2 pcs)

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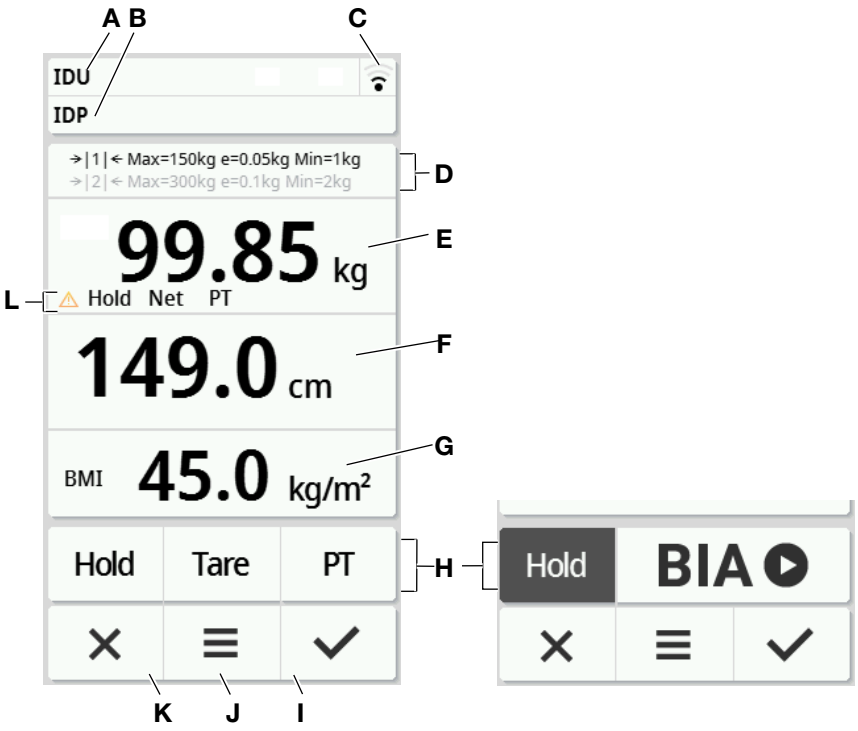
4.3 Symbols on the ID display (main screen)

This section contains information about the display content in measuring mode. Information about the display content for configuration and administration is available here:
→ Symbols on the ID display (menu), page 18.



Item	Display element	Description
A B	IDU IDP	Only if connected to third-party EMR System (via **seca connect 103**): • **IDU**: User name • **IDP**: Name and date of birth of the patient • Press the area to display the IDs in enlarged form
C		WiFi connection status display: • WiFi unavailable • WiFi activated, no signal • Signal very weak • Signal weak • Signal good • Signal optimal
		LAN connection status display: • Not available • Deactivated • Activated

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Item	Display element	Description
D	Weighing technology data	• Weighing ranges: →|1|←, →|2|← • Max: Maximum load per weighing range • e: Graduations (verified models) • d: Graduations (non-verified models) • Min: Minimum load per weighing range
E	**Weight** display field	Body weight: Units: • Kilograms • Pounds (non-verified models)
F	**Height** display field	Height, press display for manual input: Units: • Centimeters • Feet/inch(es) (non-verified models)
G	"Body Size Indicator" display field	Body size indicator (press display field to switch): • **BMI**: Body Mass Index (kg/m²): Automatic calculation • **BSA (DuBois)**: Body Surface Area (m²): Automatic calculation • **BSA (Haycock)**: Body Surface Area (m²): Automatic calculation • **BSA (Mosteller)**: Body Surface Area (m²): Automatic calculation Body Size Indicator (activate/deactivate in menu → Selecting BMI/BSA/Waist circumf., page 50): • : Enter waist circumference
H	Additional functions	• Hold Additional function activated (here: **Hold**) • Hold Additional function deactivated
	Bioimpedance measurement	Bioimpedance measurement (function available when the weight and height of the patient have been determined): • BIA Start bioimpedance measurement • BIA Bioimpedance measurement completed, data can be submitted • Bioimpedance measurement in progress (measurement progress in %) • Bioimpedance measurement completed • Checking electrodes • Electrode check: electrodes OK, skin contact resistance OK • Electrode check: electrodes OK, skin contact resistance too high
I	✓	• Confirm measured results and send to EMR System • Confirm manual input
J	≡	• Press briefly: Open menu (→ Configuration, page 45) • Press and hold (approx. 5 seconds): → Changing device mode, page 45
K	×	• Clear measured results • Clear manual input • Cancel automated procedures
L	Extended weighing functions	• ⚠: Non-verifiable function active • **Hold**: **Hold** function active • **NET**: **Tare** or **Pre-tare** function active • **PT**: **Pre-tare** function active

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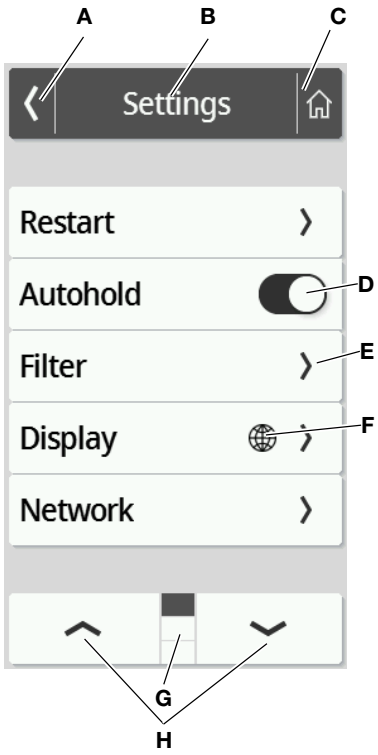
4.4 Symbols on the ID display (menu)

This section contains information about the display content for configuration and administration. Information about the display content for measuring mode is available here:
→ Symbols on the ID display (main screen), page 16.

The configuration options in the menu are dependent on the device mode selected:

- → Changing device mode, page 45
- → Functions/device mode, page 82



	Symbol	Description
A		Back to the higher menu level
B	**Header**	Indicates the current menu level
C		Back to the main screen
D		• Press: Activate/deactivate function •  Function activated •  Function deactivated
E		• Submenu available • Setting options available
F		Keys with this symbol lead to the **Display****Language** menu item
G		• Pages per menu level; here: 3 • ■ Current page is displayed; here: Page 1
H		• Select page in the menu

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4.5 Labels

Markings on the device and on the type plate	
Symbol	**Meaning**
	Name and address of manufacturer, date of manufacture
UDI	Unique Device Identifier (product identification number)
REF	Article number
SN	Serial number
GAL	Value in m/s^2 (model-dependent) • Gravitational acceleration on earth • Depends on the intended location
ProdID	Product identification number
Approval Type	Type designation of design approval
	Follow instructions for use
	Device can tip over. Do not push or lean against it (devices with handrail or measuring rod)
	Do not use device on individuals with cardiac pacemakers or implanted defibrillators
	Medical electrical device, type BF
IP21	Type of protection to IEC 60529: • Protection against ingress of solid foreign bodies with a diameter of over 12.5 mm • Protection against access with fingers • Protection against dripping water
e	Value in units of mass (verified models) Used to classify and verify a scale
d	Value in units of mass (non-verified models) States the difference between two consecutive display values
	Active weighing range
	Class III scale to directive 2014/31/EU
CE M24 0102 0123	Device complies with EU directives • **M**: Conformity label in compliance with directive 2014/31/EU for non-automatic scales (verified models) • **24**: (Example: 2024) Year in which declaration of conformity was implemented and the CE label was applied (verified models) • **0102**: Notified Body for Metrology (verified models) • **0123**: Notified Body for Medical Devices
MD	Medical device in accordance with Regulation (EU) 2017/745

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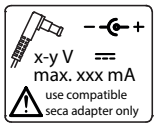
Markings on the device and on the type plate	
Symbol	**Meaning**
	Device meets the requirements of the USA and Canada. Certified and tested by a licensing laboratory (NRTL) of TÜV SÜD Product Services GmbH.
	Device complies with United Kingdom directives • **M**: Conformity label in compliance with UK directive SI 2016 no. 1152 for non-automatic scales (NAWIR) (verified models) • **24**: (Example: 2024) Year in which declaration of conformity was implemented and the UKCA label was applied (verified models) • **xxxx**: Notified Body for Medical Devices of the United Kingdom • **yyyy**: Notified Body for Metrology of the United Kingdom (verified models)
	Importer/representative in the United Kingdom: seca Ltd 40 Barn Street B5 5QB Birmingham United Kingdom
	Importer/representative in Switzerland: seca ag (schweiz) Medizinische Waagen und Messsysteme Schönmatt Str. 2 CH-4153 REINACH
	Symbol of the US authority Federal Communications Commission (FCC)
FCC ID	Device license number from the US Federal Communications Commission (FCC)
IC ID	Device license number from Industry Canada
	Type plate on the power supply connection socket • Power supply voltage required in V • Maximum current consumption in mA • –⊂+: Note polarity of device connector • ⎓: Operate device with direct current • ⚠: Use compatible seca power supply units only
	LAN interface
	USB interface
	Power LED
	Network LED
	WPS button
	Reset button
	Interface for multifunctional display

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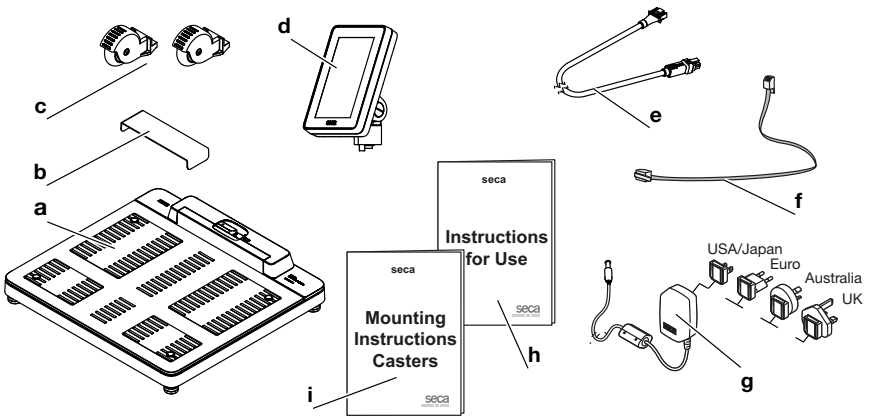
Markings on the device and on the type plate	
Symbol	**Meaning**
	Do not dispose of device in household waste

Markings on the packaging	
Symbol	**Meaning**
	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
	Permitted min. and max. air pressure for transport and storage
	Open packaging here
	Packaging material can be disposed of through recycling programs

5 STARTING UP DEVICE

5.1 Scope of delivery



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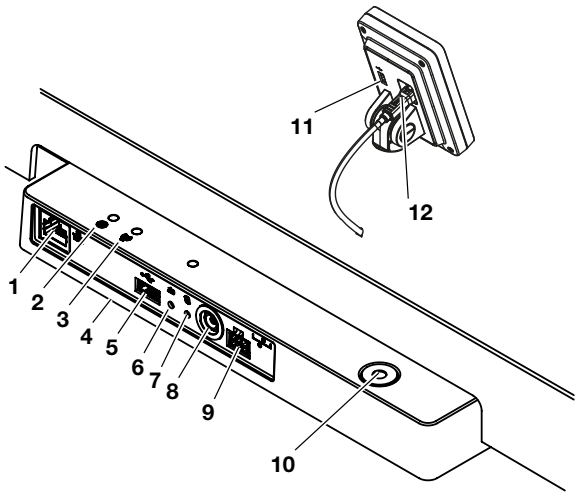
Item	Component	Pcs.
a	Scale	1
b	Drip guard, transparent	1
c	Caster for transport over short distances	2
d	Multifunctional display	1
e	Display cable	1
f	Network cable	1
g	Plug-in power supply unit with adapters	1
h	Instructions for use	1
i	Assembly instructions, casters	1

5.2 Interfaces



Item	Device component	Function
1	LAN interface	Used to connect the device to the **seca analytics 125** software (alternative to WiFi connection).
2	Power LED	• Illuminated in green: Device is ready for use • Illuminated in red: Device is defective • Flashing green: Device is active as access point
3	Network LED	• Flashing green: Establishing network connection • Illuminated in green: Network connection established • Illuminated in red: Network connection interrupted
4	WiFi module (internal)	Used to connect the device to the **seca analytics 125** software (alternative to LAN connection).
5	USB interface, weighing platform	No function in this device variant, use USB interface on multifunctional display
6	Reset button	• Press and hold (approx. 8 seconds): Reset settings • Press briefly (approx. 1 second): Activate/deactivate access point function
7	WPS button	Establishing WiFi connection via WPS
8	Power supply connection	Used to connect the plug-in power supply unit
9	Display socket	No function for this device variant, display is connected to internal interface when device is assembled
10	Spirit level	Indicates whether the device is horizontal
11	USB interface, multi-functional display	For connecting a barcode scanner (accessory required: **seca 463** scanner bracket) → Optional accessories and spare parts, page 86
12	Display interface	For supplying power to the multifunctional display and for data transmission

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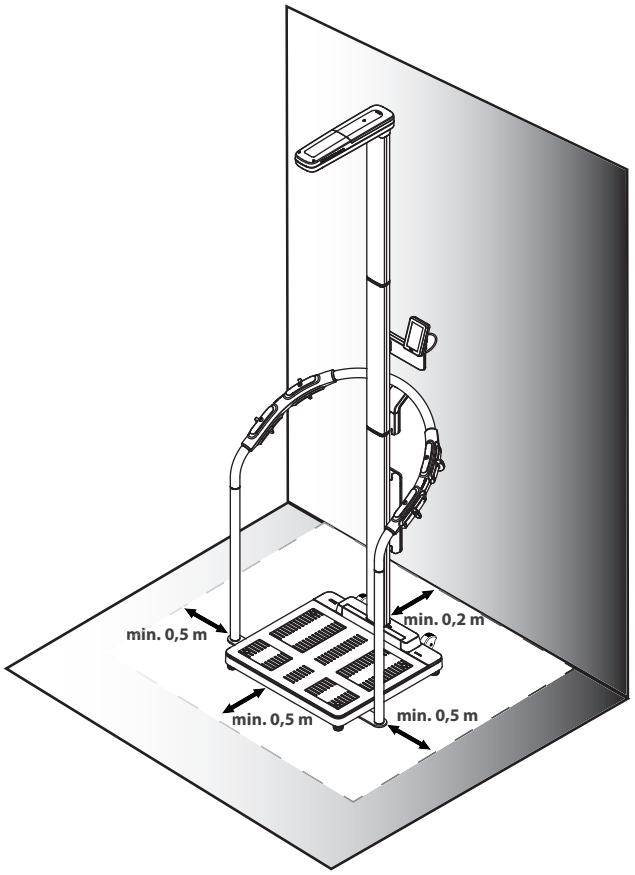
5.3 Setting up device

To achieve accurate measured results, the floor at the setup location must be level and stable. Soft floors (wooden boards, for example) give under the patient's weight and falsify the measured result.

1. Place the device on a firm, level surface.
2. Only for devices with an ultrasonic measuring rod: Mark the area shown in the illustration using colored adhesive tape, for example.



Example device configuration: seca 555 scale
seca 550 BIA handrail, seca 257 ultrasonic measuring rod

NOTICE!
Malfunction caused by other ultrasonic emitters
If there are other ultrasonic emitters in the immediate vicinity of the device - automatic door openers, for example - incorrect measurements will result.

► Ensure that there are no other ultrasonic emitters in the same room or in the immediate vicinity of the device.

NOTICE!
Faulty measurement due to reflections
If there are objects or people in the immediate vicinity of the device, incorrect measurements will result.

► Ensure that there are no objects or people within 0.5 meters of the front or side of the scale during the measurement procedure.

► Ensure that the device is at least 0.2 meters away from the wall.

► Ensure that the patient is not wearing any kind of hair accessory on top of their head.

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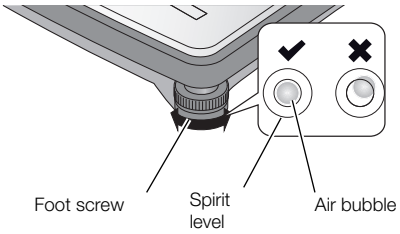
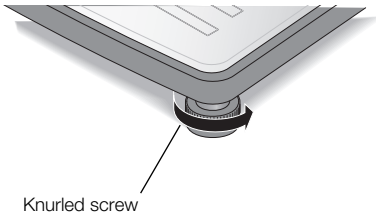
3. Align the device by turning the foot screws.



⇨ The device is positioned horizontally when the air bubble of the spirit level is in the precise center of the circle.

CAUTION!
Injury from a lack of stability
If the foot screws are screwed out too far, they may come loose from the device. The device will then be unstable.

- ► Screw the foot screws out a maximum of 10 mm.
- ► If the device cannot be aligned horizontally with the screws screwed out as far as possible, the setup location is unsuitable. Set the device up in a suitable location.



4. Tighten the knurled wheels in the direction of the arrow.
   ⇨ The foot screws are secured against being adjusted.

5.4 Connecting a barcode scanner (optional)

A barcode scanner can be connected to the USB interface of the multifunctional display.

The barcode scanner is required for the following functions:

- **Configuration**: Define network data in the **seca connect 103** software and transmit them to the device using the QR code: → Setting up network functions, page 56
- **Operation**: Record patient and user IDs for transmitting measured results to the **seca analytics 125** software or to an EMR System: → Completing the measurement, page 44

WARNING!
Injury

- ► Route the connector cable so that patients cannot become caught or strangle themselves in it.
- ► Route the connecting cable so as to prevent patients and users tripping.

NOTE

- ► Observe the maximum permitted current consumption of the barcode scanner.
- ► Use only barcode scanners recommended by seca.
- ► The device is compatible with NFC/RFID scanners. For details, contact seca Service.

To connect a barcode scanner, proceed as follows:

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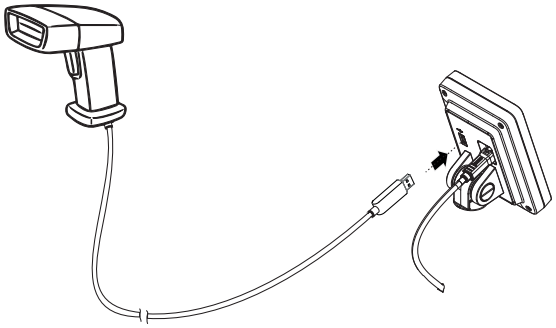
1. Ensure that the device is disconnected from the power supply.
2. Plug the USB connector of the barcode scanner into the USB socket of the multi-functional display.



3. Hang the barcode scanner in a suitable holder (e.g. **seca 463** scanner bracket → Optional accessories and spare parts, page 86).

   NOTICE!
   Faulty measurement
   The barcode scanner and scanner bracket are in the weighing-sensitive area of the device. If the barcode scanner is not replaced in the scanner bracket after scanning, the measured result will be falsified.

   ► Place the scanner back in the scanner bracket after each scanning procedure.

4. Establish the power supply → Establishing power supply, page 25.

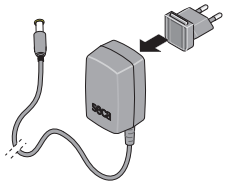
5.5 Establishing power supply

The device is supplied with power by a plug-in power supply unit.

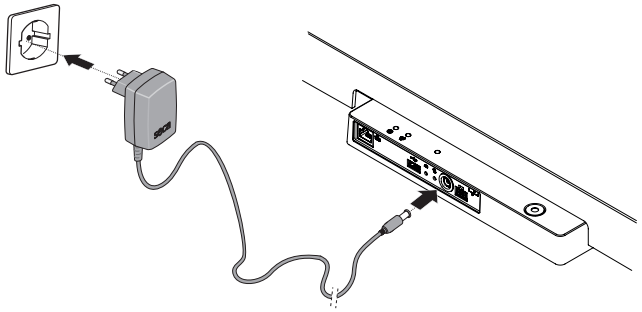
WARNING!
Personal injury or damage to device as a result of incorrect power supply units
Conventional power supply units may deliver a higher voltage than is indicated on them. The measuring device may overheat, catch fire, melt or short-circuit.

► Use only original seca power supply units with a controlled 12 V output voltage.

1. Plug the adapter required for your power supply into the power supply unit.



2. Insert the device connector of the power supply unit into the power supply connection socket of the device.
3. Plug the power supply unit into a power supply socket.



4. Perform a function check → Function check, page 69.

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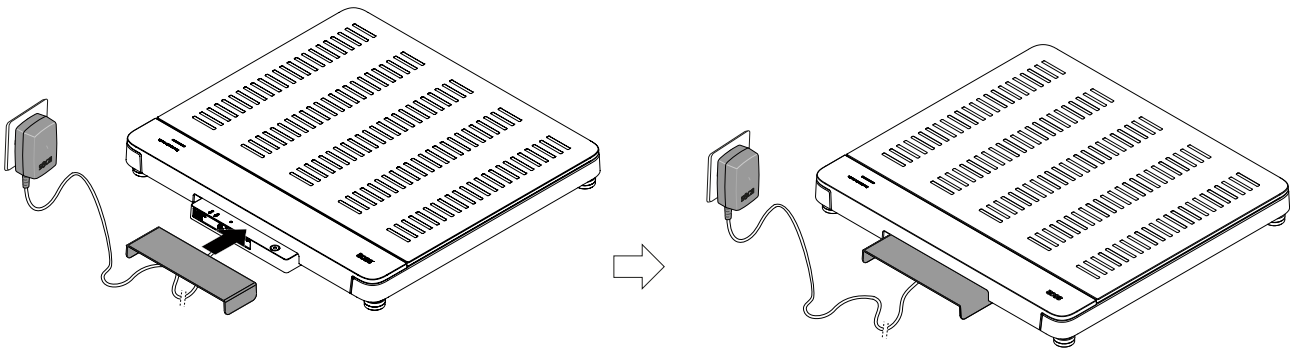
5.6 Installing the drip guard

NOTICE!
Damage to device due to the ingress of fluids
Damage may occur to the device if dripping water or other dripping fluids enter the device via the connection panel.

► Only operate the device with the drip guard installed.

1. Connect all cables as described in these instructions for use and in the installation instructions for the compatible products.
2. Position the drip guard on the connection panel as shown in the illustration.
3. Push the drip guard beneath the weighing platform up to the stop.



5.7 Adapting device settings

You have the following options for setting the device up for different usage situations:

- → Changing device mode, page 45
- → Calling up/exiting a menu, page 46
- → Setting up network functions, page 56
- → Calibrating ultrasonic measuring rod, page 48

5.8 Transporting device

The device has two casters that facilitate transport over short distances.

CAUTION!
Injury, damage to device
The device must be tilted for transport. If the device is tilted and transported carelessly, this may lead to injuries and damage to the device.

► Ensure that there is no-one else in the immediate vicinity throughout the entire transport operation.

► Ensure that there are no objects in the immediate vicinity throughout the entire transport operation.

1. Remove the drip guard.
2. Disconnect all the device cable connections (e.g. power supply, network).
3. Tilt the device until it can be moved freely on the casters.

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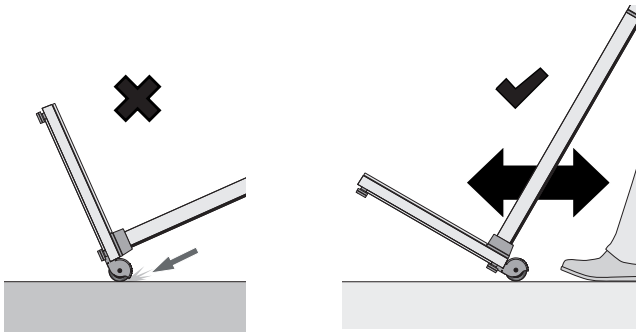

4. Transport the device to its new setup location.
5. Set up the device.
6. Re-establish all cable connections.
7. Install the drip guard.

6 OPERATION

WARNING!
Injury from falling

- ► Ensure that the device is steady and level.
- ► Route connector cables (if present) so that neither users nor the patient can trip over them.
- ► The device is not designed for supporting patients when getting up, e.g. from a wheelchair. Assist people with limited motor skills when they are getting up, e.g. from a wheelchair.
- ► Ensure that the patient does not step directly onto or off the edges of the weighing platform.
- ► Ensure 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 patient has dry feet before stepping onto the weighing platform.
- ► Ensure that the patient steps onto and off the weighing platform slowly and safely.

NOTE
The availability of some functions is dependent on device mode. If you require functions that are not available in the current device mode, ask your administrator or hospital technician whether the device mode can be changed.

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6.1 Starting the measurement procedure

Device mode	Function available
Basic	•
Advanced	•
Expert	•
Service	•

Activating the multifunctional display (stand-alone operation)

The multifunctional display will switch to standby mode (→ Setting standby time, page 53) after a set time period. The following screensaver is displayed in stand-alone operation:

Screensaver for stand-alone operation

1. Press the multifunctional display to activate it.
   ⇨ The main screen is displayed.
2. Ask the patient to step onto the weighing platform.
3. Complete the measurement as described in the relevant sections of these instructions for use.

Activating the multifunctional display (network connection)

The multifunctional display will switch to standby mode (→ Setting standby time, page 53) after a set time period. The following screensaver is displayed with a network connection:

Screensaver for network connection

1. Press the multifunctional display to activate it.
   ⇨ The main screen is displayed.
2. Scan your ID and the ID of the patient.

   NOTE
   If you press the **Continue as guest** key, you can start the measurement immediately and scan the IDs later.
3. Ask the patient to step onto the weighing platform.
4. Complete the measurement as described in the relevant sections of these instructions for use.

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Using a reserved device (network connection)

You can reserve the device (from firmware version 1.3) for your patient in the **seca analytics 125** software (depending on version). The name of the patient is displayed on the reserved device:

1. Ask the patient to step onto the weighing platform.
   ⇨ The main screen is displayed.
2. Complete the measurement as described in the relevant sections of these instructions for use.

6.2 Measuring weight

Device mode	Function available
Basic	•
Advanced	•
Expert	•
Service	•

CAUTION!
Injury from falling
Persons with limited mobility may fall when stepping onto the weighing platform.

► Support people with limited mobility when they step onto the scale.

1. Make sure that there is no load on the weighing platform.
2. Ask the patient to step onto the weighing platform.
3. Ask the patient to keep still.
4. Read off the measured result.

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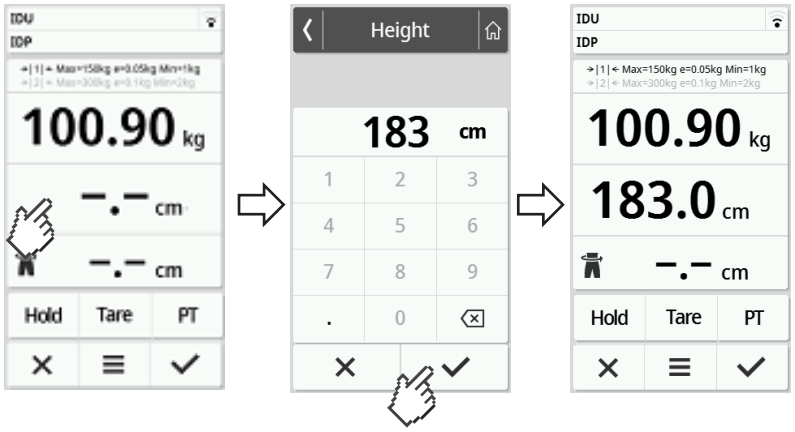
6.3 Entering height manually

Device mode	Function available
Basic	•
Advanced	•
Expert	•
Service	•

CAUTION!
Patient hazard
To prevent misinterpretations, measuring results for medical purposes must only be displayed and used in SI units (kilograms/grams, meters/centimeters). Some devices have the option of displaying measuring results in different units. This is purely an additional function.

- ► Only use measuring results in SI units.
- ► The user takes sole responsibility for the use of measuring results in non-SI units.

1. Press the **Height** field.
2. Enter the height.
3. Press the ✓ key to confirm your entry.



4. Press the ✕ key to clear your entry.

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6.4 Measuring weight and height (devices with ultrasonic measuring rod)

Device mode	Function available
Basic	•
Advanced	•
Expert	•
Service	•

CAUTION!
Injury from falling
Persons with limited mobility may fall when stepping onto the weighing platform.

► Support people with limited mobility when they step onto the scale.

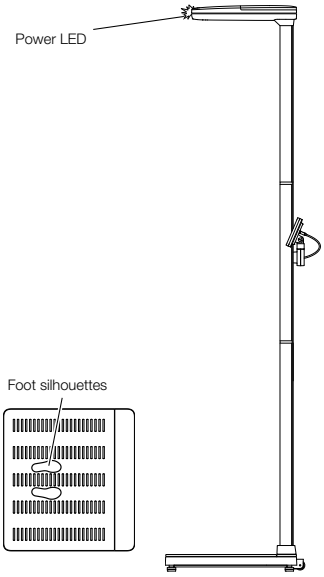
NOTICE!
Faulty measurement due to reflections
If there are objects or people in the immediate vicinity of the device, incorrect measurements will result.

► Ensure that there are no objects or people within 0.5 meters of the front or side of the scale during the measurement procedure.

► Ensure that the device is at least 0.2 meters away from the wall.

► Ensure that the patient is not wearing any kind of hair accessory on top of their head.

The measurement described in the following is based on the factory settings. Information about configuration options can be found here: → Calibrating ultrasonic measuring rod, page 48.



1. Ensure that the measuring device is ready for operation:

- There is no load on the weighing platform
- Power LED on ultrasound head is illuminated
- Foot silhouettes on the weighing platform are illuminated

2. If necessary, press the multifunctional display screen to "wake" the device from standby.

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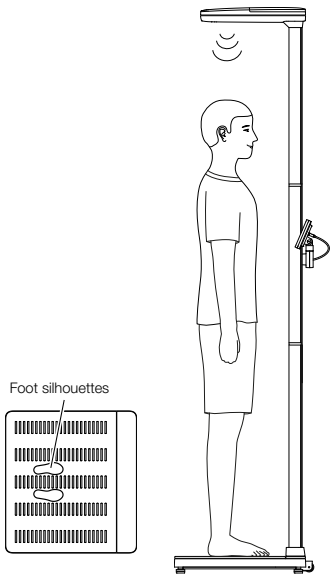
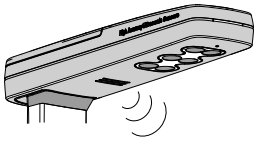


3. Ask the patient to step onto the weighing platform facing the column.
4. Ask the patient to follow the instructions given by the device.



5. Make sure that the patient's posture is correct:

- Upright posture: Back and head straight
- Feet on the illuminated foot silhouettes

6. Read off the measured result.

7. You have the following options for continuing:

- Complete the measurement → Completing the measurement, page 44
- Perform a bioimpedance measurement → Measuring bioimpedance, page 38
- Discard measured results: Press the ✕ key

6.5 Using extended weighing functions

Taring additional weight (Tare)

Device mode	Function available
Basic	–
Advanced	•
Expert	•
Service	•

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

NOTICE!
Faulty measurement as a result of force shunt
If an additional weight (e.g. a large towel) contacts the surface on which the scale is placed, the weight will not be measured correctly.

► Make sure that additional weights are only placed on the scale's weighing platform.

✓ There is no load on the scale.

1. To activate the **Tare** function, proceed as follows:
   a) Place an additional weight (here: 1 kg) on the weighing platform.
   b) Press the **Tare** key.
   c) Wait until the value **0.00** and the message **NET** are displayed.

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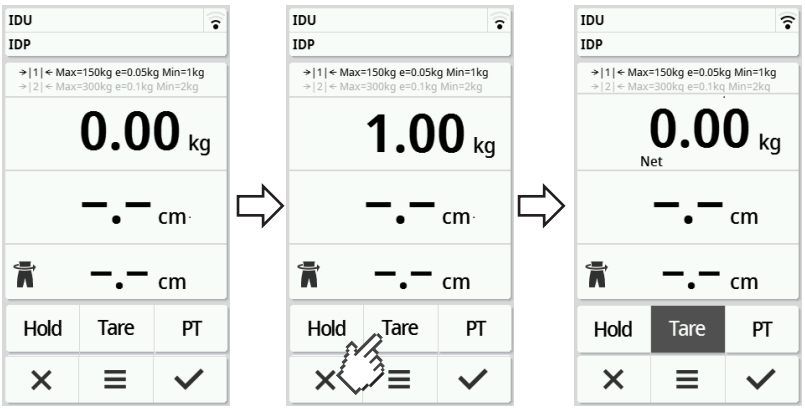
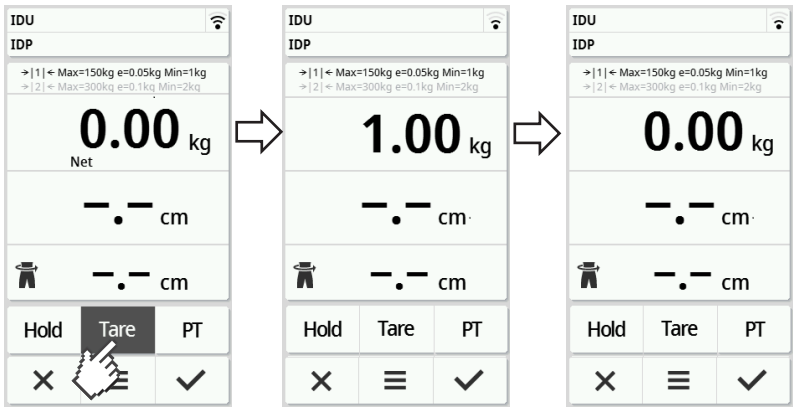


2. Weigh the patient.
3. Read off the measured result.
   ⇨ The additional weight is deducted automatically.
4. To deactivate the function, proceed as follows:
   a) Remove the weight from the weighing platform.
   b) Press the **Tare** key.
   c) Wait until the message **NET** goes off and the additional weight is displayed.
   d) Remove the additional weight from the weighing platform.



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

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Permanently displaying the weight (Hold)

Device mode	Function available
Basic	–
Advanced	•
Expert	•
Service	•

When the **Hold** function is activated, weight continues to be displayed after the weight has been removed from the scale. This enables you to attend to the patient before recording the weight.

✓ There is no load on the scale.

1. Ask the patient to step onto the scale.
2. Press the **Hold** key.
3. Wait until the weight has stopped flashing.
   ⇨ The message **Hold** appears.

4. To deactivate the function, press the **Hold** key.
   ⇨ The **Hold** message is no longer displayed.

NOTE

- If the **Autohold** function is activated, weight and height are automatically displayed permanently as soon as stable measured values have been achieved (→ Activating Autohold function, page 47).
- If you wish to update measured values (weight and height), press the **Weight** display field or press the **Hold** key again. The measurement is repeated and the updated measured values are displayed permanently.

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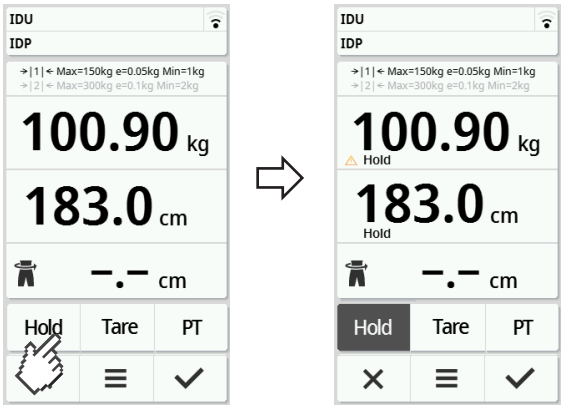
Permanently displaying weight and height (Hold)

Device mode	Function available
Basic	–
Advanced	•
Expert	•
Service	•

When the **Hold** function is activated, weight and height continue to be displayed after the weight has been removed from the scale. This enables you to attend to the patient before recording the measured results.

✓ There is no load on the scale.

1. Ask the patient to step onto the scale.
2. Wait until height measurement has been completed and, if the device is set accordingly, the measured results have been announced.
3. Press the **Hold** key.
   ⇨ The message **Hold** appears.



4. To deactivate the function, press the **Hold** key.
   ⇨ The **Hold** message is no longer displayed.

NOTE

– When the **Autohold** function is activated, the weight is automatically displayed permanently as soon as a stable measured result has been achieved (→ Activating Autohold function, page 47).
– If you wish to update the weight, press the **Weight** display field again or press the **Hold** key again. The measurement is repeated and the updated weight is displayed permanently.

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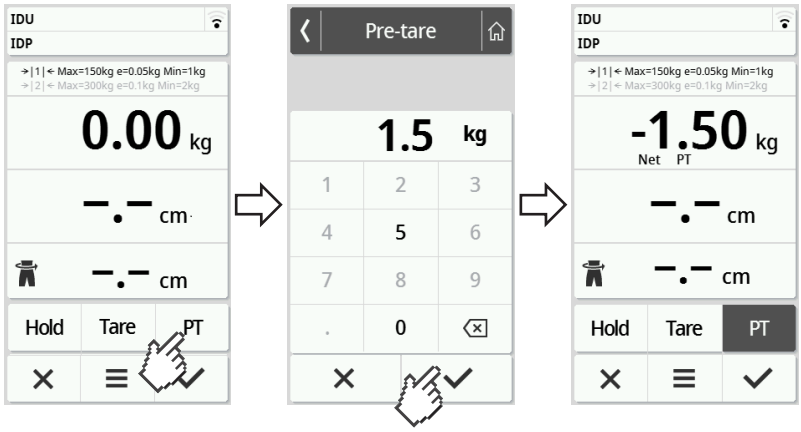
Permanently store additional weight (Pre-Tare)

Device mode	Function available
Basic	–
Advanced	•
Expert	•
Service	•

The **Pre-tare** function can be used to save an additional weight permanently and subtract it from a measured result automatically, e.g. a flat-rate figure for shoes and clothing.

Activate Pre-tare function

1. Remove the weight from the weighing platform.
2. Press the **PT** key.
3. Enter the value.
4. Confirm the value with the ✓ ke.y
   ⇨ The set additional weight (here: 1.5 kg) is displayed with a minus sign in front.
   ⇨ The messages **NET** and **PT** are displayed.



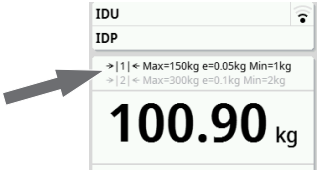
5. Ask the patient to step onto the scale.
   ⇨ The patient's weight is displayed.
   ⇨ The saved additional weight has been deducted automatically.

Deactivate Pre-tare function

1. Remove the weight from the weighing platform.
2. Press the **PT** key.
3. Clear the value with the ✕ key.
   ⇨ The set additional weight is no longer displayed.
   ⇨ The function is deactivated.

Switching weighing range

After the scale is switched on, weighing range 1 is active. If a particular weight is exceeded, the scale automatically switches to weighing range 2.



► To switch back to weighing range 1, completely remove the weight from the scale.
   ⇨ Weighing range 1 is active again.

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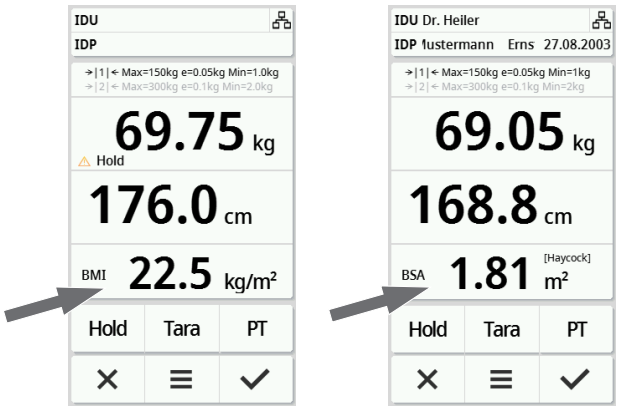
Automatic calculation of BMI or BSA

Device mode	Function available
Basic	•
Advanced	•
Expert	•
Service	•

The device automatically calculates Body Mass Index (**BMI**) or Body Surface Area (**BSA**) depending on the default setting (→ Selecting BMI/BSA/Waist circumf., page 50).

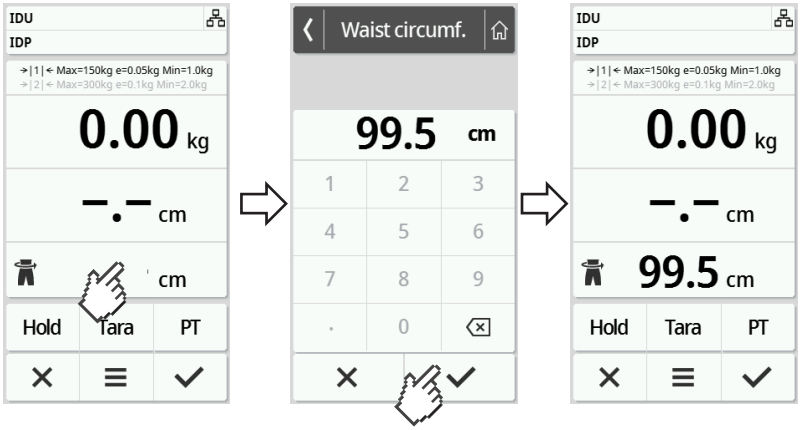
1. Determine the patient's weight (→ Measuring weight, page 29).
2. Determine the patient's height (→ Entering height manually, page 30).
   ⇨ Either **BMI** or **BSA** is displayed depending on the default setting:



Entering waist circumference

If the symbol is visible on the main screen, you can enter the patient's waist circumference. The waist circumference entry can be configured → Selecting BMI/BSA/Waist circumf., page 50.

1. Press the display field.
2. Enter the waist circumference.
3. Confirm the entry with the ✓ key.
   ⇨ Waist circumference is displayed on the main screen.



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6.6 Measuring bioimpedance

Device mode	Function available
Basic	•
Advanced	•
Expert	•
Service	•

User qualification for bioimpedance measurement

Bioimpedance measurements may only be carried out by persons who have been familiarized with the functions of the device according to the regulations of the respective institution.

To perform a bioimpedance measurement, at least the following sections of these instructions for use must be observed in addition to the information in this section:

- → Safety precautions, page 7
- → Contraindications, page 6
- → Hygiene treatment, page 68

Performing bioimpedance measurement, combinations with BIA handrail

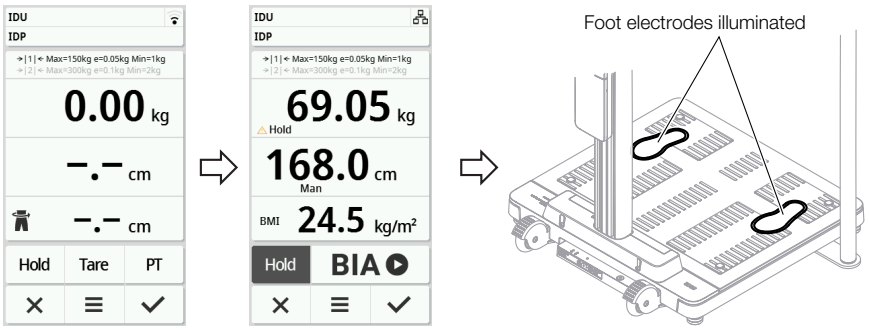
WARNING!
Patient hazard due to infections
Diseases can be transmitted due to poor hygiene.

- ► Ensure that the patient does not have any infectious diseases.
- ► Make sure that the patient's hands and feet are clean.
- ► Make sure that the patient does not have any open wounds on the palms of the hands or the soles of the feet.
- ► Disinfect the electrode surfaces after every measurement.

WARNING!
Injury from falling

- ► The device is not designed for supporting patients when getting up, e.g. from a wheelchair. Assist people with limited motor skills when they are getting up, e.g. from a wheelchair.

1. Ask the patient to step onto the weighing platform.
2. Determine the patient's weight and height as described in the relevant sections of these instructions for use.
   ⇨ The BIA start key is shown.
   ⇨ The foot electrodes for bioimpedance measurement light up on the weighing platform.



3. If intended, enter the patient's waist circumference.
4. Make sure that the patient is standing on the device correctly:

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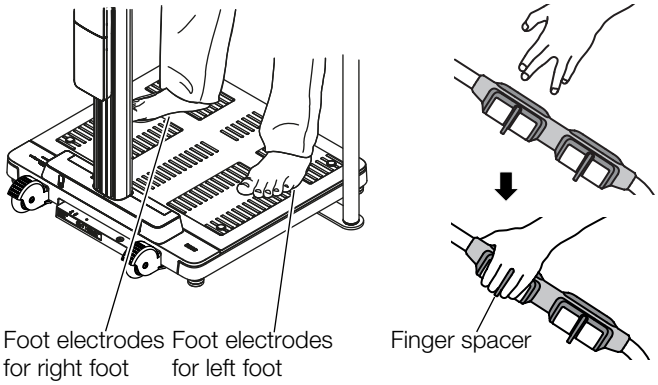
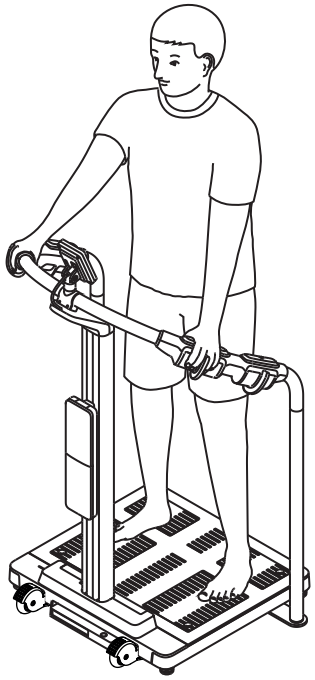


Test item	Characteristics
Hands	• Hands must be clean • Select the pair of hand electrodes such that arms are extended but not tensed • Same pair of hand electrodes on left and right • Finger spacers for the hand electrodes between the middle finger and ring finger on both sides (see drawing below)
Feet	• Feet must be clean • Stand on device with bare feet • Position feet on the illuminated foot electrodes (see drawing below)
Position	• Upright position • Knees slightly bent • Do not move during the measurement



NOTE
Selection of the hand electrodes influences the measuring result. Note the pairs of hand electrodes selected by the patient. In this way, you can ensure that the patient can use the same pairs of hand electrodes for future measurements.
The electric current passed through the body during the measurement is very low and does not present any health risk. However, in isolated cases, very sensitive persons may feel a slight tingling sensation.

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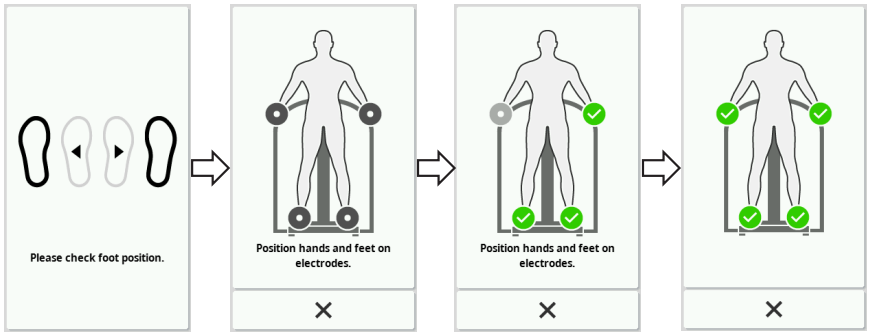
5. Press the BIA start key.
   ⇨ The message **Authorized personnel only** appears.

6. Follow the instructions in the → User qualification for bioimpedance measurement, page 38 and then proceed as follows:

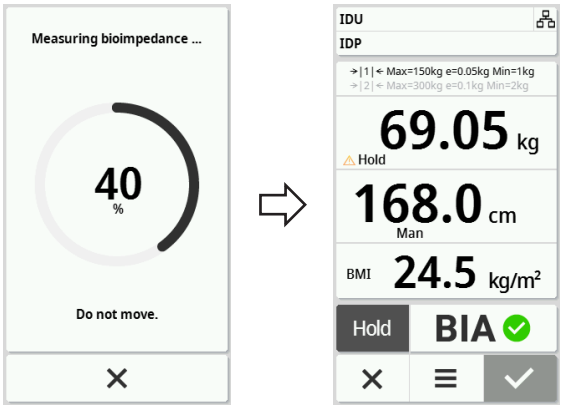
   ► Authorized personnel: Press the ✓ key and continue

   ► Unauthorized personnel: Press the ✕ key to cancel the procedure

7. Make sure that the patient is in correct contact with the hand and foot electrodes.



   ⇨ The device automatically starts the test for electrode contact.
   ⇨ If the electrode contact is correct, the corresponding electrode indicator goes green.
   ⇨ When all electrode indicators are green, the measurement starts automatically.



   ⇨ Once the measurement is complete, the main screen is displayed again.

8. Complete the measurement procedure → Completing the measurement, page 44.
9. Ask the patient to step off the weighing platform.

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Performing bioimpedance measurement, combinations with BIA handle

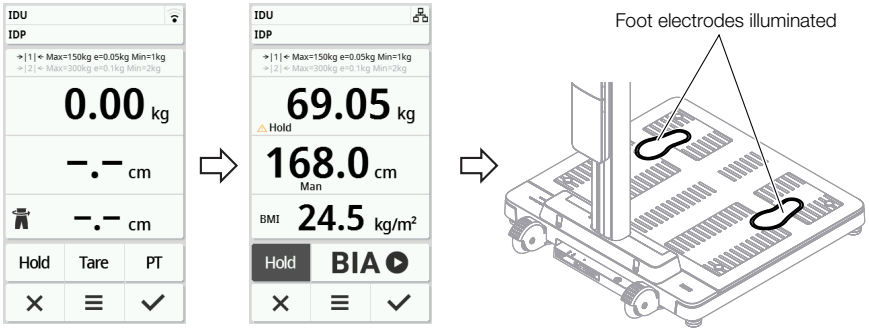
WARNING!
Patient hazard due to infections
Diseases can be transmitted due to poor hygiene.

- ► Ensure that the patient does not have any infectious diseases.
- ► Make sure that the patient's hands and feet are clean.
- ► Make sure that the patient does not have any open wounds on the palms of the hands or the soles of the feet.
- ► Disinfect the electrode surfaces after every measurement.

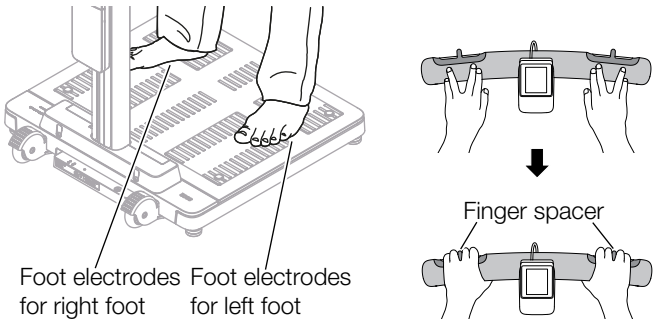
WARNING!
Injury from falling

- ► The device is not designed for supporting patients when getting up, e.g. from a wheelchair. Assist people with limited motor skills when they are getting up, e.g. from a wheelchair.

1. Ask the patient to step onto the weighing platform.
2. Determine the patient's weight and height as described in the relevant sections of these instructions for use.
   ⇨ The BIA start key is shown.
   ⇨ The foot electrodes for bioimpedance measurement light up on the weighing platform.



3. If intended, enter the patient's waist circumference.
4. Make sure that the patient is standing on the device correctly:



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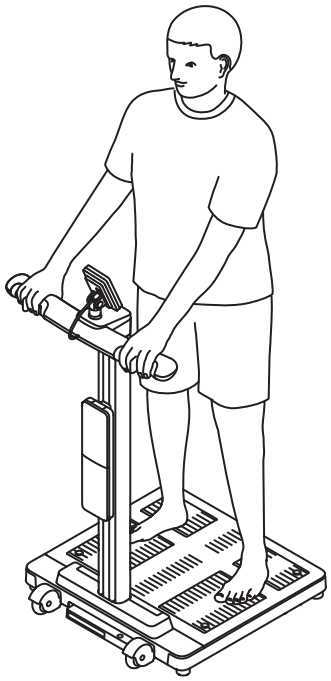
Test item	Characteristics
Hands	• Hands must be clean • Finger spacers for the hand electrodes between the middle finger and ring finger on both sides (see drawing below)
Feet	• Feet must be clean • Stand on device with bare feet • Position feet on the illuminated foot electrodes (see drawing below)
Position	• Upright position • Knees slightly bent • Do not move during the measurement



NOTE
The electric current passed through the body during the measurement is very low and does not present any health risk. However, in isolated cases, very sensitive persons may feel a slight tingling sensation.

5. Press the BIA start key.
   ⇨ The message **Authorized personnel only** appears.

6. Follow the instructions in the → User qualification for bioimpedance measurement, page 38 and then proceed as follows:

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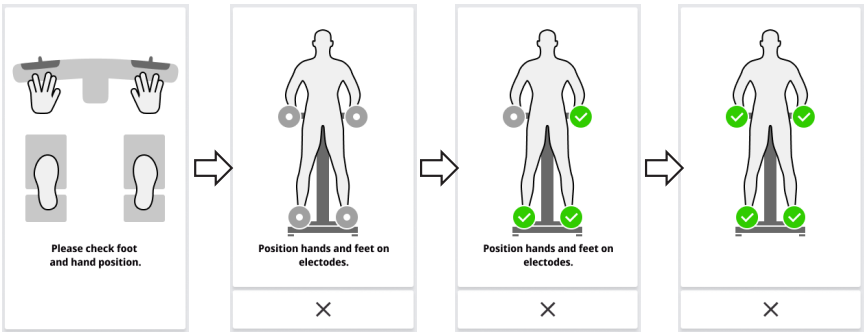
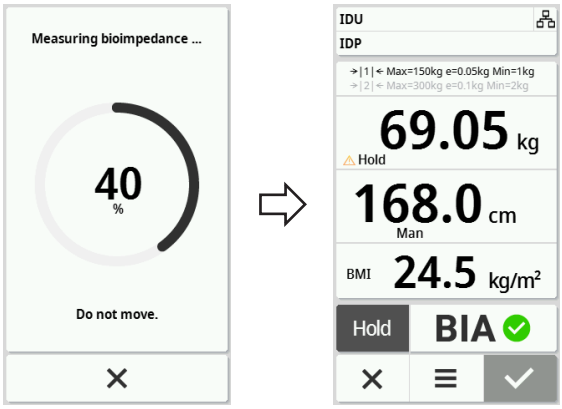
► Authorized personnel: Press the ✓ key and continue

► Unauthorized personnel: Press the ✕ key to cancel the procedure

7. Make sure that the patient is in correct contact with the hand and foot electrodes.



⇨ The device automatically starts the test for electrode contact.
⇨ If the electrode contact is correct, the corresponding electrode indicator goes green.
⇨ When all electrode indicators are green, the measurement starts automatically.



⇨ Once the measurement is complete, the main screen is displayed again.

8. Complete the measurement procedure → Completing the measurement, page 44.
9. Ask the patient to step off the weighing platform.

Viewing the bioimpedance measurement analysis

The **seca analytics 125** software is required to display bioimpedance measured results and analyses → Compatible seca products, page 87.

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6.7 Completing the measurement

Stand-alone operation

To complete a measurement on devices that are not connected to an EMR System or the **seca analytics 125** software, proceed as follows:

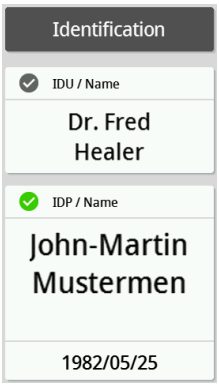
1. Make sure that the displayed measured values are plausible.
2. Transfer the displayed measured values to the patient file manually.
3. Ask the patient to step off the weighing platform.
4. Press the ✕ key.
   ⇨ Measured values and manual entries are discarded.
   ⇨ The device is ready for the next measurement.

Devices with connection to an EMR System

To complete a measurement on devices connected to an EMR System, proceed as follows:

1. Make sure that the displayed measured values are plausible.
2. Press the ✓ key.
3. Scan the patient and/or user ID.
   ⇨ The device indicates whether the scanned IDs are correct:

Patient ID



User and patient ID

NOTE
Whether IDs have to be scanned and at what point during the measurement is defined when connecting the device to your EMR System. If you have any queries in this regard, contact your administrator or hospital technician.

4. Press the ✓ key.
   ⇨ The measured results are submitted to the EMR System and are assigned to the electronic patient file.

5. Ask the patient to step off the weighing platform.
   ⇨ The device is ready for the next measurement.

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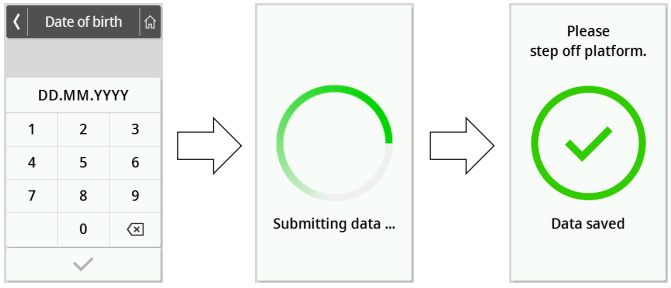
Devices with a connection to the seca analytics 125 software

To complete a measurement on devices connected to the **seca analytics 125** software, proceed as follows:

1. Press the ✓ key.
   ⇨ The **Date of birth** dialog window appears.
2. Enter the patient's date of birth.
3. Press the ✓ key.
   ⇨ The measured results are submitted to the **seca analytics 125** software.



4. Ask the patient to step off the weighing platform.
   ⇨ The device is ready for the next measurement.

7 CONFIGURATION

7.1 Basic functions

Changing device mode

The following device modes are available for setting the device up for different usage situations:

Mode	Functions	Use	Recommended user group
Basic	• Measurement functions: – Perform a measurement – Read off results • Menu: – Restart the device	Guided measurements	Hospital personnel
Advanced	• Measurement functions: – Perform a measurement – Read off results – Use additional functions • Menu: – Limited device configuration	Guided measurements	Hospital personnel
Expert	• Measurement functions: – Perform a measurement – Read off results – Use additional functions • Menu: – Configure the device – Configure network connection	• Guided measurements • Configure the device • Network connection	• Hospital personnel • Hospital technicians • IT administrators
Service	• Measurement functions: – Perform a measurement – Read off results – Use additional functions • Menu: – Configure the device – Configure network connection – Additional service functions	Service	Authorized service technicians

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To select a device mode, proceed as follows:

1. Press and hold the ☰ key (approx. 5 sec.) until the **Device mode** menu appears.
   ⇨ The current device mode is displayed.
2. Press the desired device mode.
   ⇨ The function is active.
3. Press the ⌂ key in the header.
   ⇨ The main screen is displayed.

Calling up/exiting a menu

1. To call up the menu, press the ☰ key.
   ⇨ The **Settings** menu is displayed.
2. To exit the menu, press the ⌂ key.
   ⇨ The main screen is displayed.

NOTE
The setting options available in the menu depend on the product variant/combination of products being used. The menu of your device may have a smaller scope than that shown in these instructions for use.

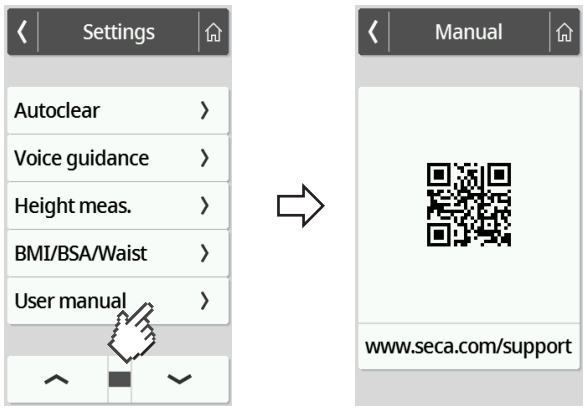
Using the PDF version of the instructions for use (QR code)

Device mode	Function available
Basic	–
Advanced	•
Expert	•
Service	•

You can scan a QR code which can be used to access the PDF version of these instructions for use and load them e.g. onto your smartphone or tablet PC.

To scan the QR code, proceed as follows:

1. Press the ☰ key.
   ⇨ The **Settings** menu is displayed.
2. Press the ⌄ or ⌃ key until the **User manual** menu item is displayed.
3. Press the **User manual** item.
   ⇨ A QR code is displayed.



4. Scan the QR code (e.g. with your smartphone or tablet).
   ⇨ This takes you to the www.seca.com/support website where you can download the instructions for use.

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7.2 Measuring

Activating Autohold function

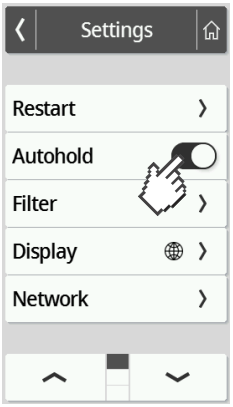
Device mode	Function available
Basic	–
Advanced	•
Expert	•
Service	•

If you activate the **Autohold** function, it is no longer necessary to activate the **Hold** function manually for each individual measurement.

On devices with a measuring rod, the setting also applies to the display of height.

NOTE
This function is activated at the factory on some models. The function can be deactivated.

1. Press the ☰ key.
   ⇨ The **Settings** menu is displayed.



2. Press the ⌄ or ⌃ key until the **Autohold** menu item is displayed.
3. Select the desired setting:
   – Function activated
   – Function deactivated
4. To exit the menu, press the ⌂ key.

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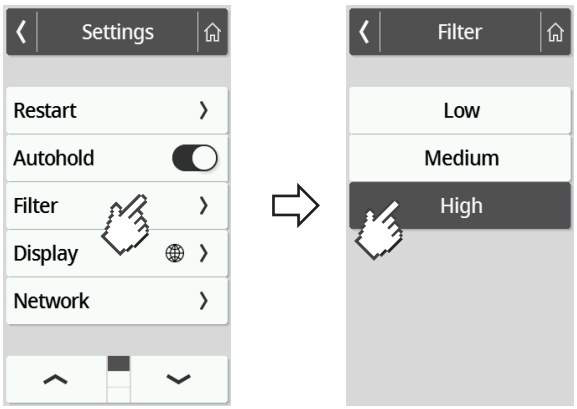
Setting filter

Device mode	Available
Basic	–
Advanced	•
Expert	•
Service	•

The **Filter** function can be used to avoid interference during weight determination. The selected setting has the following influences on measurement procedures with the **Hold**/**Autohold** / function activated:

- Sensitivity with which the weight display reacts to patient movements
- Time period until a weight value is displayed permanently

1. Press the ☰ key.
   ⇨ The **Settings** menu is displayed.
2. Press the ⌄ or ⌃ key until the **Filter** menu item is displayed.
3. Press the **Filter** item.
   ⇨ The current setting is displayed.



4. Press the desired filter stage.
   ⇨ The setting is active.

Settings	Weight determination
Low	Fast
Medium	Medium
High	Slow

5. To exit the menu, press the ⌂ key.

NOTE
With the **Low** setting and patients who are not very steady on their feet, it is possible that no weight value will be displayed permanently despite the **Hold** function being activated.

Calibrating ultrasonic measuring rod

Device mode	Function available
Basic	–
Advanced	–
Expert	•
Service	•

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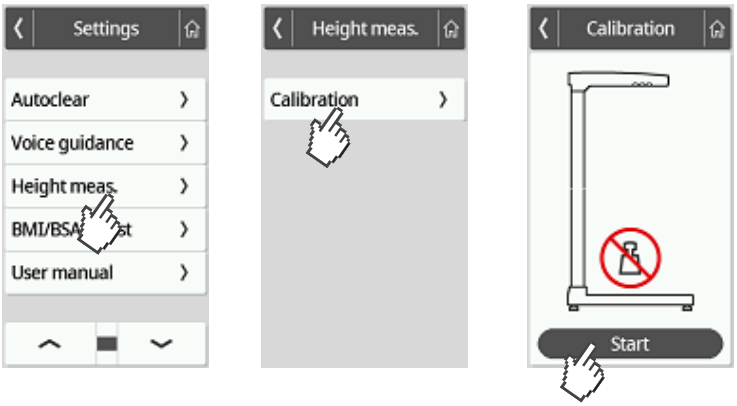
Before performing a measurement with the device for the first time, height measurement must be calibrated. Repeat this calibration at least once per year.

The automated calibration procedure consists of two steps:

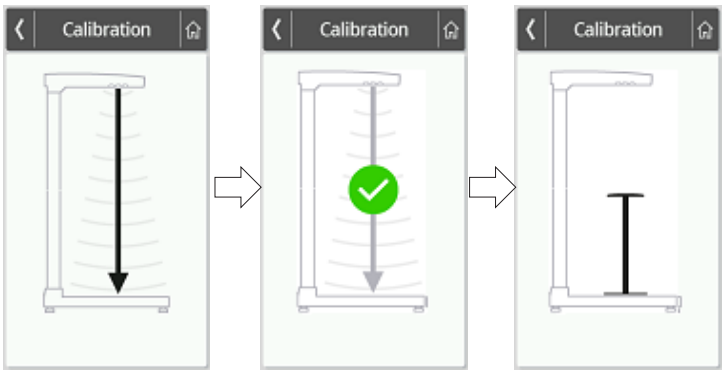
- Calibration over the entire measuring range
- Calibration with a calibration rod (included in the scope of delivery of the measuring rod).

✓ There is no load on the weighing platform
✓ Power LED on ultrasound head is illuminated
✓ Silhouettes on the weighing platform are illuminated
✓ No objects or people in the immediate vicinity of the device (distance approx. 0.5 m)

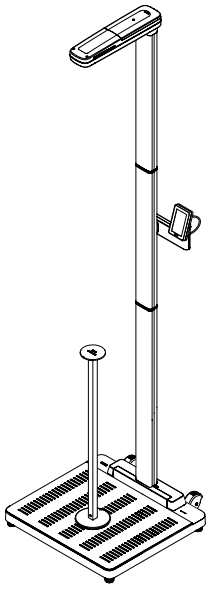
1. Press the ☰ key.
   ⇨ The **Settings** menu is displayed.
2. Press the ⌄ or ⌃ key until the **Height meas.** menu item is displayed.
3. Press the **Height meas.** menu item.
4. Press the **Calibration** menu item.
   ⇨ The **Calibration** dialog is displayed:
5. Press the **Start** key.
   ⇨ The first step of the calibration procedure starts.



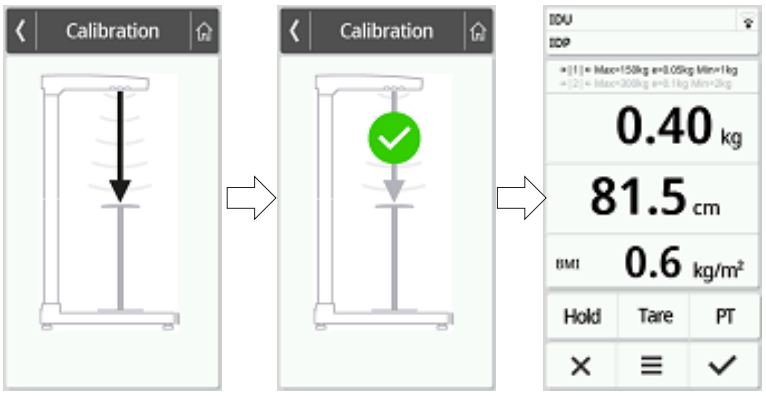
6. Step back from the measuring device (distance approx. 0.5 m).
7. Wait until the first part of the calibration procedure has been completed.
   ⇨ The device requests you to place the calibration rod on the weighing platform:



17-10-07-655-002c_2026-02S



8. Place the calibration rod centrally on the illuminated foot silhouettes of the weighing platform.
9. Step back from the measuring device (distance approx. 0.5 m).
   ⇨ The second step of the calibration procedure starts.
10. Wait until the second part of the calibration procedure has been completed.
    ⇨ The main screen is displayed again.



11. Remove the calibration rod from the weighing platform.
    ⇨ The device is ready to measure.

Selecting BMI/BSA/Waist circumf.

Device mode	Function available
Basic	–
Advanced	–
Expert	•
Service	•

You can specify whether the device calculates Body Mass Index (**BMI**) or Body Surface Area (**BSA**) as soon as the patient's weight and height are available.

You can also set the device so that it does not display the **BMI** or **BSA** value calculated, but waist circumference **Waist circumf.** can be entered manually.

NOTE
If the **Waist circumf.** setting is selected, automatic BMI/BSA calculation is not possible.

1. Press the ☰ key.
   ⇨ The **Settings** menu is displayed.
2. Press the ⌄ or ⌃ key until the **BMI/BSA/Waist** menu item is displayed.
3. Press the **BMI/BSA/Waist** item.
4. Press the desired setting.
   ⇨ The setting is active.

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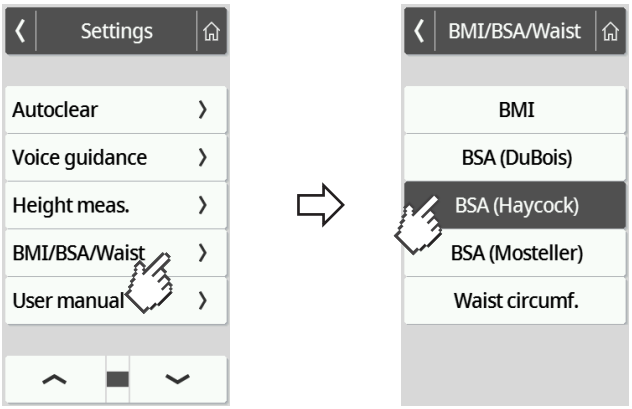


5. To exit the menu, press the key.

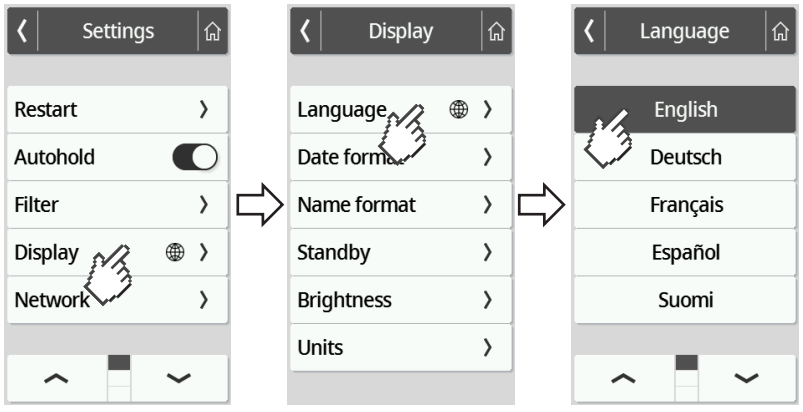
7.3 Adjusting display settings

Setting display language

Device mode	Function available
Basic	–
Advanced	•
Expert	•
Service	•

The display language can be set.

1. Press the key.
   ⇨ The **Settings** menu is displayed.
2. Press the or key until the **Display** menu item is displayed.
3. In the **Display** menu, select the **Language** item.
4. Press the desired language.
   ⇨ The setting is active.



5. To exit the menu, press the key.

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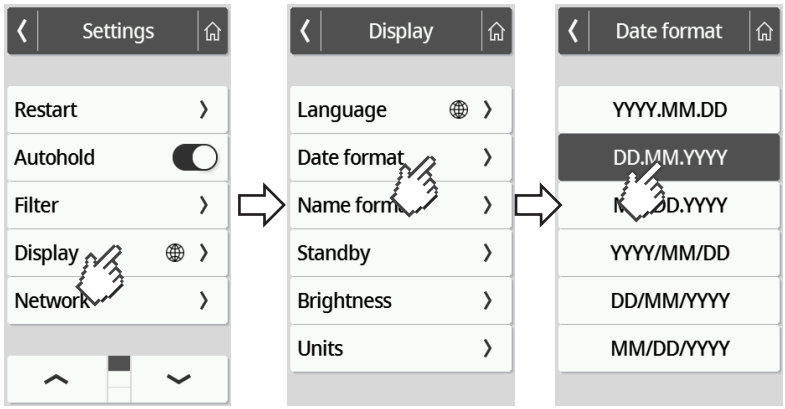
Setting date format

Device mode	Function available
Basic	–
Advanced	•
Expert	•
Service	•

The format in which the patient's date of birth is displayed can be set.

1. Press the ☰ key.
   ⇨ The **Settings** menu is displayed.
2. Press the ⌄ or ⌃ key until the **Display** menu item is displayed.
3. In the **Display** menu, select the **Date format** item.
4. Press the desired date format.
   ⇨ The setting is active.



5. To exit the menu, press the ⌂ key.

Setting name format

Device mode	Function available
Basic	–
Advanced	•
Expert	•
Service	•

The format in which the names of patients and users are displayed can be set.

1. Press the ☰ key.
   ⇨ The **Settings** menu is displayed.
2. Press the ⌄ or ⌃ key until the **Display** menu item is displayed.
3. In the **Display** menu, select the **Name format** item.
4. Press the desired name format.
   ⇨ The setting is active.

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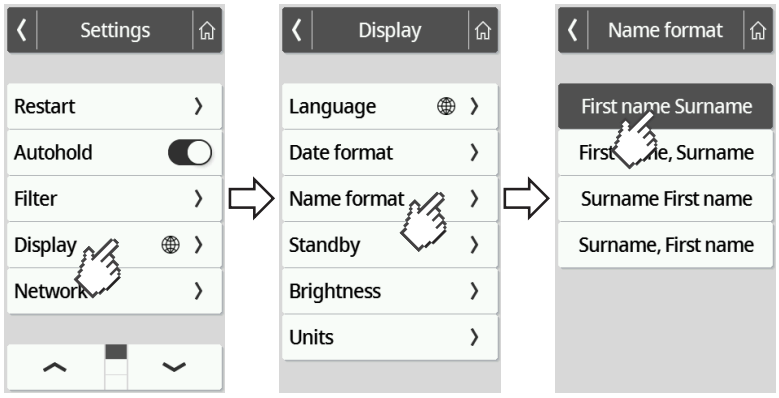


5. To exit the menu, press the key.

Setting standby time

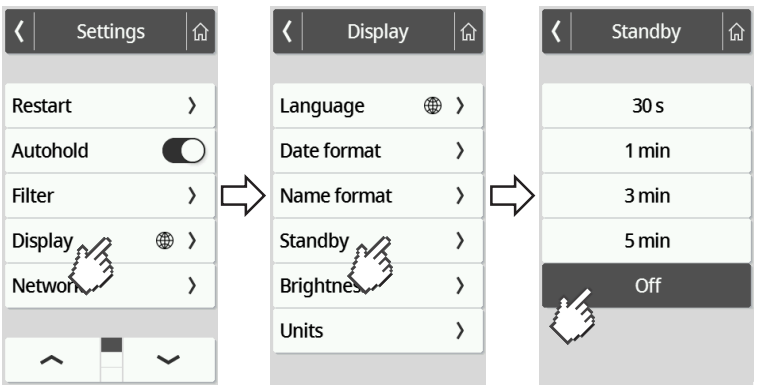
Device mode	Function available
Basic	–
Advanced	•
Expert	•
Service	•

The time period after which the multifunctional display goes to standby mode can be set.

WARNING!
Electric shock
The device is not de-energized when the display goes off.

► The device is not equipped with an on/off switch. Remove the power supply connector if the device needs to be de-energized, e.g. for hygiene treatment or maintenance work.

1. Press the key.
   ⇨ The **Settings** menu is displayed.
2. Press the or key until the **Display** menu item is displayed.
3. In the **Display** menu, select the **Standby** item.
4. Press the desired setting.
   ⇨ The setting is active.



NOTE
If the **Off** setting is selected in the **Standby** menu, the multifunctional display remains permanently active.

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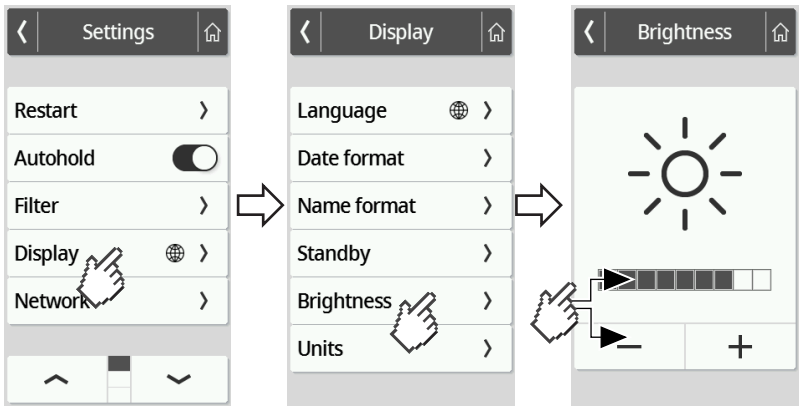
5. To exit the menu, press the key.

Setting display brightness

Device mode	Function available
Basic	–
Advanced	•
Expert	•
Service	•

Display brightness can be adjusted in stages (0 = off, 9 = max).

1. Press the key.
   ⇨ The **Settings** menu is displayed.
2. Press the or key until the **Display** menu item is displayed.
3. In the **Display** menu, select the **Brightness** item.
4. Adjust the brightness:
   ► Press the plus/minus keys
   ► Press the stages in the selection bar
   ⇨ The setting is active.



5. To exit the menu, press the key.

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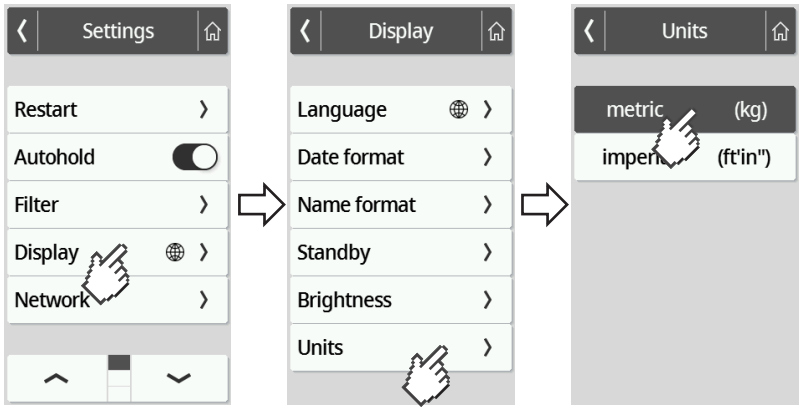
Switching units

Device mode	Function available
Basic	–
Advanced	–
Expert	•
Service	•

CAUTION!
Patient hazard
To prevent misinterpretations, measuring results for medical purposes must only be displayed and used in SI units (kilograms/grams, meters/centimeters). Some devices have the option of displaying measuring results in different units. This is purely an additional function.

- ► Only use the measuring results in SI units.
- ► You as the user take sole responsibility for the use of measuring results in non-SI units.

1. Press the ☰ key.
   ⇨ The **Settings** menu is displayed.
2. Press the ⌄ or ⌃ key until the **Display** menu item is displayed.
3. In the **Display** menu, select the **Units** item.
4. Press the desired system of units.



   ⇨ The setting is active.
   ⇨ Measured results are displayed in the selected system of units.
5. To exit the menu, press the ⌂ key.

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7.4 Setting up network functions

CAUTION!
Malfunction, implausible measured results
If network settings are not carried out correctly, measured results may be assigned incorrectly or lost.

► Have the steps described in this section carried out by your administrator or hospital technician. If you have any questions, contact seca Service.

NOTE
As soon as the device is connected to a network, the **Autohold** function is activated automatically. The **Autohold** function cannot be deactivated if the device is connected to a network.

The following conditions must be met in order to be able to transmit measured values to the **seca analytics 125** software or to a third-party EMR System:

seca analytics 125 software (direct connection):

- Device is connected to the server for the **seca analytics 125** software
- Device is connected to your network via a LAN or WiFi connection

NOTE
In individual cases it may make sense not to connect the device directly to the **seca analytics 125** software, but rather via the **seca connect 103** software. This will be agreed during project preparation.

Third-party EMR System (via **seca connect 103**):

- Device is connected to the server for the **seca connect 103** software
- An interface to the EMR System has been set up in the **seca connect 103** software – in agreement with the third-party supplier
- Device is connected to your network via a LAN or WiFi connection
- A barcode scanner is connected to the device

Once the connection has been made, measurement consists of the following steps:

- Record ID(s) using the barcode scanner; alternatively, if connected directly to **seca analytics 125**: Submit IDs to the device
- Record measured values on the device
- Use the **seca connect 103** software to transmit measured results to the EMR System

NOTE
Individual settings for the measurement can be made in the **seca connect 103** software or the **seca analytics 125** software. These settings are agreed during project preparation and set up by seca Service.

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Entering server address

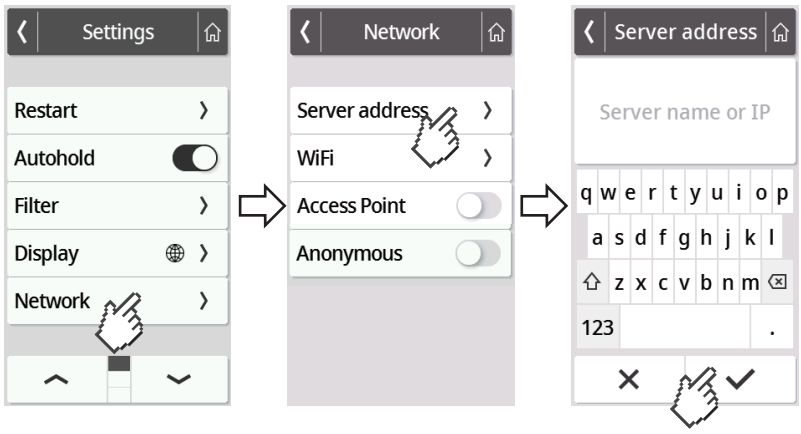
Device mode	Function available
Basic	–
Advanced	–
Expert	•
Service	•

In order to be able to use network functions, the device must be connected to one of the following servers - depending on your individual application:

- **seca connect 103**, local installation: Local server on which the **seca connect 103** software is installed.
- **seca connect 103**, cloud installation: Cloud server (you will have received access data during project implementation)
- **seca analytics 125**, cloud installation: Cloud server (you will have received access data during project implementation)

Which of the options mentioned applies to your application will have been agreed during project preparation.

1. Press the ☰ key.
   ⇨ The **Settings** menu is displayed.
2. Press the ⌄ or ⌃ key until the **Network** menu item is displayed.
3. Press the **Network** item.
4. Press the **Server address** item.
5. Enter the IP address of the server or the server name (DNS):
   a) Enter the value
   b) Confirm your entry by pressing the ✓ key



6. You have the following options for continuing:
   ► LAN: Connect the device to the network using a LAN cable
   ► Establish a WiFi connection → Setting up WiFi directly on the device, page 58

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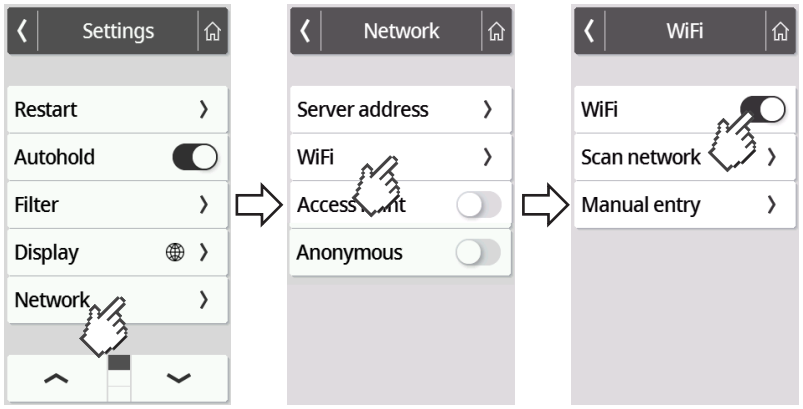
Activating/deactivating the WiFi function

Device mode	Function available
Basic	–
Advanced	–
Expert	•
Service	•

To activate/deactivate the WiFi function for the device, proceed as follows:

1. Press the ☰ key.
   ⇨ The **Settings** menu is displayed.
2. Press the ⌄ or ⌃ key until the **Network** menu item is displayed.
3. Press the **Network** item.
   ⇨ The current setting is displayed:



4. Press the desired setting for the **WiFi** item:
   – Function activated
   – Function deactivated
5. To exit the menu, press the ⌂ key.

Setting up WiFi directly on the device

Device mode	Function available
Basic	–
Advanced	–
Expert	•
Service	•

1. Ensure that there is no LAN connection - disconnect the LAN cable from the device if there is one.
2. Ensure that the WiFi function of the device is activated → Activating/deactivating the WiFi function, page 58.
3. Press the ☰ key.
   ⇨ The **Settings** menu is displayed.
4. Press the ⌄ or ⌃ key until the **WiFi** menu item is displayed.
5. Press the **WiFi** menu item.
   ⇨ You have the following options for continuing:
   ▶ Search for network automatically (recommended and described below)
   ▶ Integrate device in a WiFi network manually

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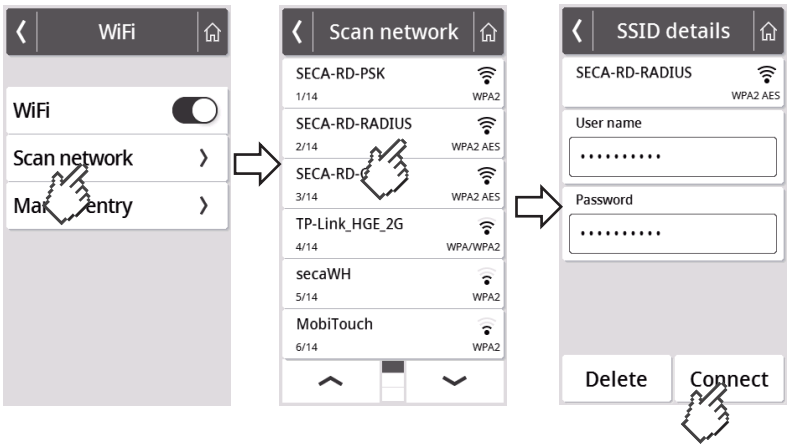
6. Press the **Scan network** menu item.
   ⇨ The device searches for available WiFi networks. This may take a moment.



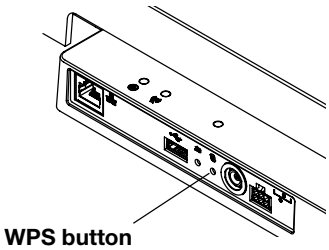
7. Press the network you wish to use (here: “SECA-RD-RADIUS” with encryption standard “WPA2 AES”).
8. Enter the user name and password for the WiFi network by pressing the relevant text field.
9. Press the **Connect** key.

   ⇨ The device connects (**Connecting**) to the router of the WiFi network.
   ⇨ As soon as the device is connected to the WiFi network, the message **Connected** is permanently on.

Connecting the device to a WiFi network (WPS)

Connect your device to the WiFi network via WPS if no barcode scanner is connected to the device and you have access to the router.

1. Ensure that the WiFi function of the device is activated → Activating/deactivating the WiFi function, page 58.
2. Press the WPS button on the router and on the connection panel of the weighing platform.
   ⇨ The device connects to the router of the WiFi network.
   ⇨ As soon as the device is connected to the WiFi network, the symbol is permanently on.



NOTICE!
Malfunction, incomplete data transmission
Further settings must be made to enable measurement data to be transmitted to an EMR System via the **seca connect 103** software.

► Observe the **seca 103/452** system instructions for use.

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Permitting anonymous measurements

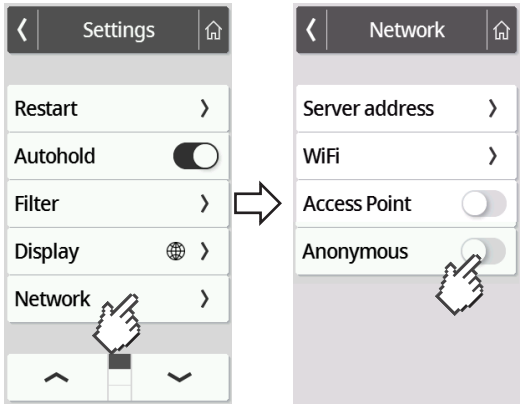
Device mode	Function available
Basic	–
Advanced	–
Expert	–
Service	•

If the device is connected to a suitable EMR System via the **seca connect 103** software, you can permit anonymous measurements. If you activate this function, the device does not request user ID or patient data (date of birth, patient ID).

WARNING!
Incorrect assignment of measured results, data loss
If measured results are incorrectly assigned or lost, this will lead to misinterpretations and consequently to misdiagnoses.

- ► Ensure that your work environment supports anonymous measurements so that clear assignment of measured results is always assured.
- ► Use this function only in consultation with seca Service.

1. Press the ☰ key.
   ⇨ The **Settings** menu is displayed.
2. Press the ⌄ or ⌃ key until the **Network** menu item is displayed.
3. Press the **Network** item.
   ⇨ The current setting is displayed.



4. Press the desired setting for the **Anonymous** item:
   – Function activated
   – Function deactivated
5. To exit the menu, press the ⌂ key.

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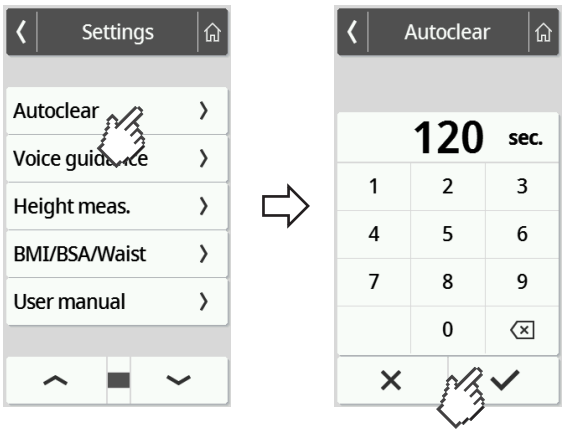
Automatically clearing measured values (Autoclear)

Device mode	Function available
Basic	–
Advanced	–
Expert	•
Service	•

Out-of-date measured results and patient data lead to incorrect calculation of BMI or BSA or to implausible bioimpedance analyses. The period of time after which the following parameters are cleared automatically can be set:

- Weight
- Height
- **BMI**
- **BSA**
- Patient ID

1. Press the ☰ key.
   ⇨ The **Settings** menu is displayed.
2. Press the ⌄ or ⌃ key until the **Autoclear** menu item is displayed.
3. Press the **Autoclear** item.
4. Specify the time after which the device is to discard measured results and patient data:
   a) Enter value (minimum: 1 sec./maximum: 3600 sec./1 h)
   b) Confirm your entry by pressing the ✓ key



5. To exit the menu, press the ⌂ key.

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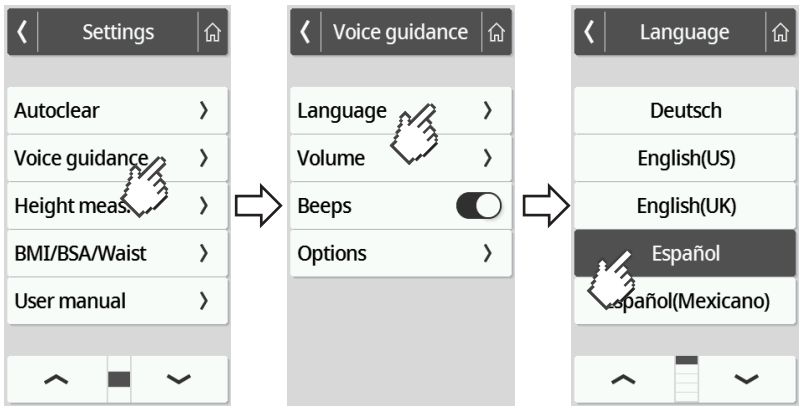
7.5 Configuring voice guidance (devices with ultrasonic measuring rod)

Selecting language

Device mode	Function available
Basic	–
Advanced	•
Expert	•
Service	•

To change the language, proceed as follows:

1. Press the ☰ key.
   ⇨ The **Settings** menu is displayed.
2. Press the ⌄ or ⌃ key until the **Voice guidance** menu item is displayed.
3. In the **Voice guidance** menu, select the **Language** item.



4. Select a language.
   a) Press the arrow keys until the desired language appears on the display
   b) Press the desired language
   ⇨ The setting is active.
5. To exit the menu, press the ⌂ key.

Setting the volume

Device mode	Function available
Basic	–
Advanced	•
Expert	•
Service	•

Voice output volume can be adjusted in stages (0 = off, 9 = max.).

1. Press the ☰ key.
   ⇨ The **Settings** menu is displayed.
2. Press the ⌄ or ⌃ key until the **Voice guidance** menu item is displayed.
3. From the **Voice guidance** menu, select the **Volume** item.

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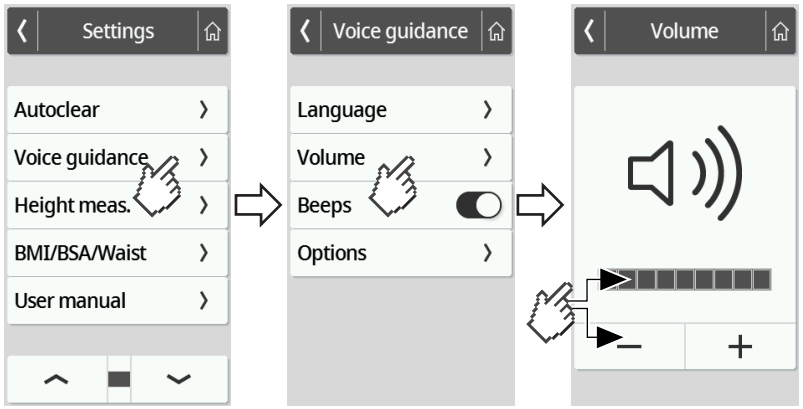


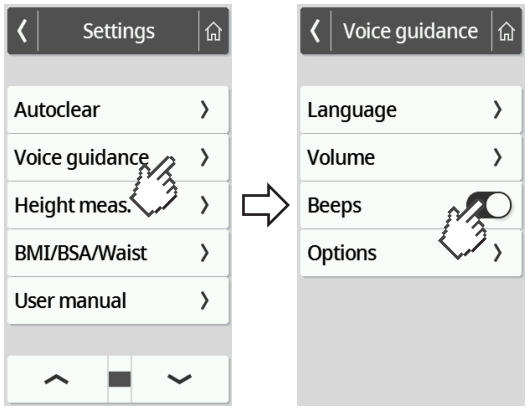
4. Adjust volume:
   - ▶ Press the plus/minus keys
   - ▶ Press the stages in the selection bar
   - ⇨ The setting is active.
5. To exit the menu, press the key.

Activating/deactivating beeps

Device mode	Function available
Basic	–
Advanced	–
Expert	•
Service	•

Beeps can be activated for height measurement to indicate the beginning and end of a measurement procedure.

1. Press the key.
   ⇨ The **Settings** menu is displayed.
2. Press the or key until the **Voice guidance** menu item is displayed.
3. In the **Voice guidance** menu, select the **Beeps** item.



4. Select the desired setting for the **Beeps** item:
   - – Function activated:
   - – Function deactivated:
5. To exit the menu, press the key.

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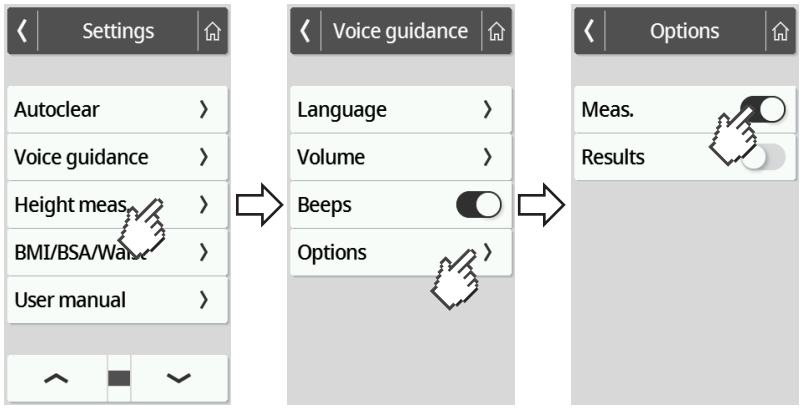
Activating/deactivating announcement of patient instructions (Measurement)

Device mode	Function available
Basic	–
Advanced	–
Expert	•
Service	•

The device can be set so that the patient is guided through the measurement procedure by voice output.

NOTE
Select a language the patient understands ➞ Selecting language, page 62.

1. Press the ☰ key.
   ⇨ The **Settings** menu is displayed.
2. Press the ⌄ or ⌃ key until the **Voice guidance** menu item is displayed.
3. In the **Voice guidance** menu, select the **Options** item.



4. Select the desired setting for the **Meas.** item:
   – Function activated: 
   – Function deactivated: 
5. To exit the menu, press the ⌂ key.

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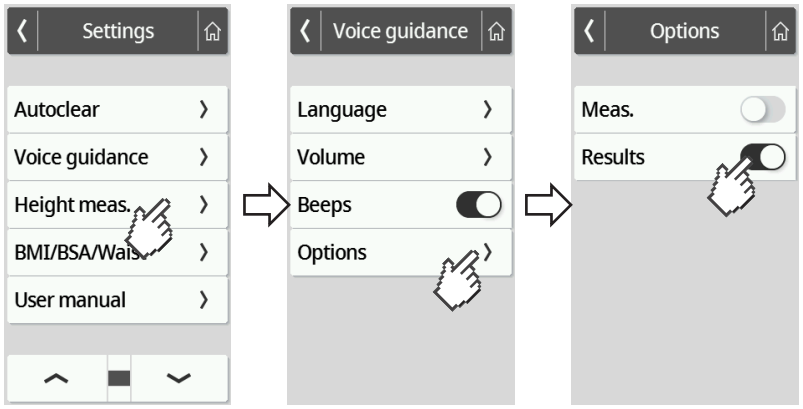
Activating/deactivating announcement of measured results (Results)

Device mode	Function available
Basic	–
Advanced	–
Expert	•
Service	•

You can set the device so that the measured results (weight, height and BMI) are announced after every measurement.

NOTE
Select a language the patient understands → Selecting language, page 62.

1. Press the ☰ key.
   ⇨ The **Settings** menu is displayed.
2. Press the ⌄ or ⌃ key until the **Voice guidance** menu item is displayed.
3. In the **Voice guidance** menu, select the **Options** item.



4. Select the desired setting for the **Results** item:
   – Function activated: 
   – Function deactivated: 
5. To exit the menu, press the ⌂ key.

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7.6 Factory settings

Overview of factory settings

Function	Factory setting
General	
Hold	Off
Tare	0 kg
Pre-tare	0 kg
Height	0 cm
Autohold	Off
Device mode	Expert
Autoclear [a]	300 sec.
Filter	Low
Display: Language	English
Display: Date format	YYYY/MM/DD
Display: Name format	First name Sur-name
Display: Standby	Off
Display: Brightness	Stage 7 of 9
BMI/BSA/Waist	BMI
Units	Metric (kg, cm)
Server address [a]	None
WiFi [a]	On
Access Point [a]	Off
Anonymous	Off
Voice guidance (devices with ultrasonic measuring rod)	
Voice guidance: Language	English
Voice guidance: Volume	Stage 5 of 9
Voice guidance: Beeps Beeps	On
Voice guidance: Meas.	On
Voice guidance: Results	On

[a] Individual setting is **not** reset to factory settings.

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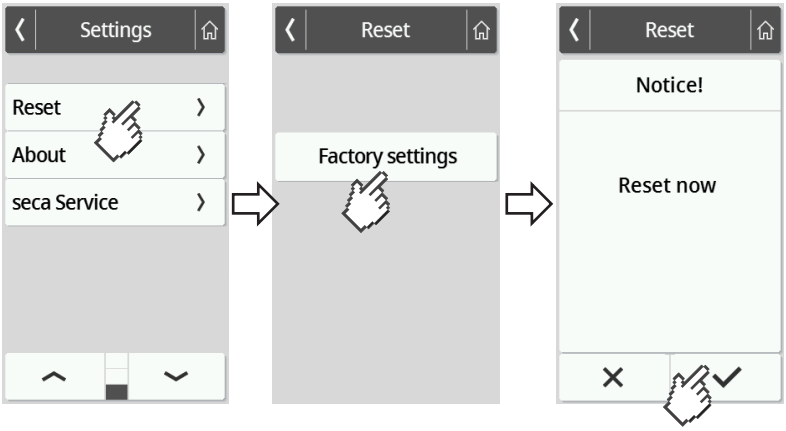
Restoring factory settings

Device mode	Function available
Basic	–
Advanced	–
Expert	•
Service	•

1. Press the ☰ key.
   ⇨ The **Settings** menu is displayed.
2. Press the ⌄ or ⌃ key until the **Reset** menu item is displayed.
3. Press the **Reset** item.



4. Press the **Factory settings** key.
5. Press the ✓ key.
   ⇨ The device will be reset to factory settings.
   ⇨ The main screen is displayed again.

NOTE
The following network settings are **not** reset:
- **Autoclear**
- **Server address**
- **Server port**
- **WiFi**
- **Access Point**

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8 HYGIENE TREATMENT

WARNING!
Electric shock
Use of fluids on the device may cause an electric shock.

► Disconnect the power supply connector before each hygiene treatment.

► Ensure that no fluids penetrate the device.

WARNING!
Risk of infection

► Subject the device to a hygiene treatment at regular intervals as described in this section.

NOTICE!
Damage to device
Unsuitable cleaning agents and disinfectants may damage the sensitive surfaces of the device and impair its operability.

► Do not use aggressive or abrasive cleaning agents.

► Do not use organic solvents (e.g. white spirit or petroleum spirit).

8.1 Cleaning

► If required, moisten a soft cloth with a mild soap solution and wipe the device over with it.

8.2 Disinfecting

1. Disinfect the device at regular intervals with a disinfectant suitable for sensitive surfaces and acrylic glass (e.g. 70 % ethanol).
2. Follow the instructions for use of 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 each measurement	• Weighing platform • BIA handrail/BIA handle with hand electrodes
After each measurement	• Weighing platform • BIA handrail/BIA handle with hand electrodes
As required	• Multifunctional display • Column (devices with measuring rod)

8.3 Sterilizing

The device must not be sterilized.

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9 FUNCTION CHECK

► Perform a function check before each use.

A complete function check includes:

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

If you find faults or deviations during the function check, first try to remedy the fault with the aid of the “Troubleshooting” section in this document.

CAUTION!
Personal injury
If you find faults or deviations during the function check which you are unable to remedy with the aid of the “Troubleshooting” section in this document, you must not use the device.

► Have the device repaired by seca Service or an authorized service partner.

► Follow the section entitled “Servicing” in this document.

10 TROUBLESHOOTING

If faults occur when operating the device, first attempt to remedy them yourself using the following tables. If the fault persists, contact seca Service.

With some faults, an error code appears on the multifunctional display. Please let seca Service have the error code when you contact them.

Information about display messages and the structure of error codes can be found here:

- → Traffic light system for display messages, page 77
- → Error codes, page 77

10.1 General faults

Fault	Cause	Remedy
No menu access possible	**Basic** device mode active	Clarify with the administrator/hospital technician whether the device can be operated in a different device mode • → Changing device mode, page 45 • → Functions/device mode, page 82
Required function not available	Device mode in which the function is not provided is active	Clarify with the administrator/hospital technician whether the device can be operated in a different device mode • → Changing device mode, page 45 • → Functions/device mode, page 82
Multifunctional display does not react when keys are pressed	Device is in an undefined state following implausible input	• → Restarting the device, page 76 • If the error recurs, inform seca Service
	With combinations of devices involving a handrail and/or measuring rod: Additional display connected	• → Restarting the device, page 76 • If the error recurs, inform seca Service

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Fault	Cause	Remedy
Multifunctional display remains dark after pressing	No connection to weighing platform	• Check whether the display cable is connected correctly • If the error recurs, inform seca Service
	No plug-in power supply unit connected	• Check whether the plug-in power supply unit is connected correctly • If the error recurs, inform seca Service
	Device is in an undefined state following implausible input	• → Restarting the device, page 76 • If the error recurs, inform seca Service
	Multifunctional display defective	Inform seca Service

10.2 Measuring weight

Fault/error code	Cause	Remedy
Displayed weight is implausible	Weighing electronics using outdated zero point	• Remove the weight from the weighing platform • Press **Weight** display field • → Restarting the device, page 76 • Wait until main screen is displayed again
	Weighing electronics defective	Inform seca Service
Autohold function cannot be deactivated	Device is connected to a network (intended behavior): **Autohold** function is activated automatically	If necessary, disconnect device from network
001-272XX-XXX to **008-272XX-XXX**	Load cell or weight calculation module defective	Inform seca Service
010-272XX-XXX	Scale has been switched on with too high a load	• → Restarting the device, page 76 • If the error recurs, inform seca Service
013-272XX-XXX	Scale was caused to oscillate and was unable to determine the zero point	• → Restarting the device, page 76 • If the error recurs, inform seca Service
016-272XX-XXX	Maximum capacity exceeded	Ask patient to step off the scale
019-272XX-XXX	Ambient temperature too high or too low	• Observe ambient conditions for operation, transport, and storage → General technical data, page 83
020-272XX-XXX to **023-272XX-XXX**	One corner of the scale has been loaded excessively	• Distribute weight evenly • → Restarting the device, page 76 • If the error recurs, inform seca Service • Inform seca Service
024-272XX-XXX	No GAL value	Inform seca Service

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10.3 Ultrasonic height measurement

Fault/error code	Cause	Remedy
⚠ symbol appears during calibration	Calibration failed	• Ensure that no objects or people are in the immediate vicinity of the device during calibration • Ensure that the supplied calibration rod was used • Ensure that the calibration rod is positioned centrally on the foot silhouettes of the weighing platform
Ultrasound measuring head power LED does not light up	Device is in an undefined state following implausible input	• → Restarting the device, page 76 • If the error recurs, inform seca Service
	Wiring in the ultrasound measuring head incorrect	Wire the ultrasound measuring head as described in the corresponding installation instructions
	Power LED is defective	Inform seca Service
Foot silhouettes on the weighing platform do not illuminate	Device is in an undefined state following implausible input	• → Restarting the device, page 76 • If the error recurs, inform seca Service
	Foot silhouette illumination is defective	Inform seca Service
Patient instructions are not announced	Function not activated	Activate function → Activating/deactivating announcement of patient instructions (Measurement), page 64
	Volume set to zero	Increase volume → Setting the volume, page 62
	Loudspeaker is defective	Inform seca Service
No beeps audible	Function not activated	Activate function → Activating/deactivating beeps, page 63
	Volume set to zero	Increase volume → Setting the volume, page 62
	Loudspeaker is defective	Inform seca Service
Measured results are not announced	Function not activated	Activate function → Activating/deactivating announcement of measured results (Results), page 65
	Volume set to zero	Increase volume → Setting the volume, page 62
	Loudspeaker is defective	Inform seca Service
080-297XX-XXX	Voice output memory cannot be read	Inform seca Service
		Deactivate beeps and voice output to suppress the error message until repair is carried out: • Deactivate announcement of patient instructions → Activating/deactivating announcement of patient instructions (Measurement), page 64 • Deactivate announcement of measured results → Activating/deactivating announcement of measured results (Results), page 65 • Deactivate beeps → Activating/deactivating beeps, page 63

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Fault/error code	Cause	Remedy
081-297XX-XXX	Voice file not found	Inform seca Service
		Deactivate beeps and voice output to suppress the error message until repair is carried out: • Deactivate announcement of patient instructions → Activating/deactivating announcement of patient instructions (Measurement), page 64 • Deactivate announcement of measured results → Activating/deactivating announcement of measured results (Results), page 65 • Deactivate beeps → Activating/deactivating beeps, page 63
082-297XX-XXX	An error occurred during the measurement	Repeat measurement and ask the patient to keep still
		If the error recurs, inform seca Service
083-297XX-XXX	An error occurred during calibration	• Remove objects from the immediate vicinity of the device. • Ask people in the vicinity to stay further away from the device
	Interference caused by reflection	
	Interference caused by other ultrasonic emitters	Increase the distance from other ultrasonic emitters
084-297XX-XXX	Ambient temperature too high or too low	Observe ambient conditions for operation, transport, and storage → General technical data, page 83
	Temperature sensor is defective	Inform seca Service
099-297XX-XXX	Voice guidance: Language that does not support the announcement of measured results in imperial units is active, announcement of measured results deactivated automatically	• Set metric units → Switching units, page 55 • Activate announcement of measured results → Activating/deactivating announcement of measured results (Results), page 65
		• Select a language that does support the announcement of measured results in imperial units: EN-US, EN-UK, ES-MX, ES-SP → Selecting language, page 62 • Activate announcement of measured results → Activating/deactivating announcement of measured results (Results), page 65

10.4 Bioimpedance measurement

Fault	Cause	Remedy
Foot silhouettes on the weighing platform do not illuminate	Device is in an undefined state following implausible inputs	• → Restarting the device, page 76 • If the error recurs, inform, seca Service
	Foot silhouette illumination is defective	Inform seca Service
 is displayed during the electrode check; bioimpedance measurement does not start	Patient's hands or feet not positioned correctly	Make sure that the patient's hands and feet are positioned correctly: • Feet on the illuminated foot silhouettes • Hands on the same hand electrodes on both sides
	Patient's skin too dry	Spray the skin with a little electrode spray at the contact points

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Fault	Cause	Remedy
	Patient's skin too calloused	Spray the skin with a little electrode spray at the contact points
⊙ is displayed continuously; bioimpedance measurement does not start	Electrodes defective	Inform seca Service
BIA ⊗ is displayed	Bioimpedance measurement failed	• Clear measurement with ✕ key • Check patient's electrode contact • Repeat bioimpedance measurement
seca analytics 125 software: Results of bioimpedance measurement deviate significantly from expected results	Patient moved during the measurement	Ask the patient not to move during the measurement and repeat the measurement
	Patient used different pairs of hand electrodes on the left and right (only with BIA handrail **seca mBCA 550/549**)	Ensure that the patient uses the same hand electrodes on both sides and repeat the measurement
	Electrodes defective	Inform seca Service
seca analytics 125 software: Value of an analysis parameter is shown in red	Value outside the normal range determined for this analysis parameter	• Repeat the measurement to rule out measurement error • If the value is still outside the normal range, take this into account during analysis and further examinations
007-276XX-XXX	BIA board needs calibrating	Inform seca Service
013-276XX-XXX to **018-276XX-XXX**	Measurement invalid: Impaired by interference	• Remove or switch off electronic devices in the vicinity • Repeat measurement • If the error recurs, inform, seca Service
	BIA board defective	Inform seca Service
020-276XX-XXX	Invalid measurement	• Repeat measurement • If the error recurs, inform, seca Service
021-276XX-XXX	Impedance of BIA electrodes too high	• Moisten the patient's skin on the contact surfaces (e.g. with electrode spray) • If the error recurs, inform, seca Service
030-276XX-XXX	Patient's hands and feet not positioned correctly	• Make sure that the patient's hands and feet are positioned correctly • If the error recurs, inform, seca Service
034-276XX-XXX	Self-test failed	• If the error recurs, inform, seca Service
036-276XX-XXX	Temperature sensor defective	Inform seca Service
037-276XX-XXX	Ambient temperature too high or too low	Observe ambient conditions for operation, transport, and storage
039-276XX-XXX	• Patient's hands and feet not positioned correctly • Impedance of BIA electrodes too high	• Make sure that the patient's hands and feet are positioned correctly • Moisten the patient's skin on the contact surfaces (e.g. with electrode spray)
	BIA electrodes defective	Inform seca Service

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10.5 Data transmission

Fault/error code	Cause	Remedy
The "Date of birth" dialog window appears after the ✓ key is pressed	Patient ID not scanned	• Press the ✕ key • Scan patient ID
	ID scanning not set up	Check Workflow settings for the **seca connect 103** or **seca analytics 125** software
	Patient does not yet have a file in the EMR System	• Enter date of birth and press ✓ key again • Create patient file in the EMR System and assign measurement
	Device is connected to the **seca analytics 125** software	• Enter date of birth • Press the ✓ key
After the ✓ key is pressed, there is no request for patient or user data	ID(s) scanned at the start of the measurement	• Not a malfunction, measured results are assigned to the patient and saved in the EMR System • Check assignment in EMR System
	ID scanning not set up	Check Workflow settings for the **seca connect 103** or **seca analytics 125** software
	Anonymous function activated	• Not a malfunction, measured results are sent to the EMR System • In the EMR System, ensure that measured results are correctly assigned
⚠ icon appears	An obligatory measurement has not been performed	• Press the ✕ key • Perform the missing measurement
	Scanned ID is invalid	Scan valid ID
ⓘ icon appears	Optional measured value (e.g. height) has not been determined	• Press ✕ key and determine optional measured value • Press ✓ key and end measurement • If desired: Check Workflow settings for the **seca connect 103** or **seca analytics 125** software
✓ icon appears	Optional ID (e.g. user ID) has been scanned	If desired: Check Workflow settings for the **seca connect 103** or **seca analytics 125** software
✓ key appears grayed out	There are no data available to be confirmed	• Perform a measurement • Scan IDs (user/patient)
✕ key appears grayed out	There are no data available to be cleared	• Perform a measurement • Scan IDs (user/patient)
Autoclear function: An entry of "0 seconds" is not accepted; the factory setting (300 seconds) is suggested instead	Implausible input; switching off the function is not intended in the factory	• Accept factory setting • Manually enter value between 1 and 3600 seconds
Workflow LED does not light up	Measurement not yet started	Start measurement (→ Starting the measurement procedure, page 28)
	No network connection	Set up network connection → Setting up network functions, page 56

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Fault/error code	Cause	Remedy
	WiFi function deactivated	Activate the WiFi function → Activating/deactivating the WiFi function, page 58
	Workflow LED defective	Inform seca Service
Workflow LED illuminated red	ID not found in EMR System or in the seca software	Create the ID in the EMR System or in the seca software
	Device has not saved measured results to the clipboard	Repeat measurement
	Measured results have not been sent to an EMR System or to seca software	• Repeat measurement • Check WiFi connection
001-288XX-XXX	No connection to the server	• Check LAN cable • Check network settings → Setting up network functions, page 56
002-288XX-XXX	No data transmission possible	• Check network settings → Setting up network functions, page 56 • Check Workflow settings for the **seca connect 103** or **seca analytics 125** software
004-288XX-XXX	Barcode scanned at the wrong time	Repeat measurement and maintain correct operating sequence
		• → Restarting the device, page 76 • If the error recurs, inform seca Service
005-288XX-XXX	Barcode invalid or damaged	Use a valid, undamaged barcode
	Patient ID/user ID not found	In the database (**seca analytics 125** or EMR System): • Create patient file • Create user account
006-288XX-XXX	Unable to transmit measurement to EMR System	Check Workflow settings for the **seca connect 103** or **seca analytics 125** software
010-288XX-XXX	Update failed	• Restart update • If the error recurs, inform seca Service
019-288XX-XXX	Overcurrent at USB interface of weighing platform	• Check connected USB device • If the error recurs, do not use the USB device
020-288XX-XXX **022-288XX-XXX**	No connection to **seca connect 103** software	• Repeat measurement • Check Workflow settings for the **seca connect 103** or **seca analytics 125** software
		• → Restarting the device, page 76 • If the error recurs, inform seca Service
050-280XX-XXX	Overcurrent at USB interface of multifunctional display	• Check connected USB device • If the error recurs, do not use the USB device
052-280XX-XXX	Internal device communication error	• → Restarting the device, page 76 • If the error recurs, inform seca Service
053-280XX-XXX	Communication error between weighing platform and multifunctional display	• → Restarting the device, page 76 • If the error recurs, inform seca Service

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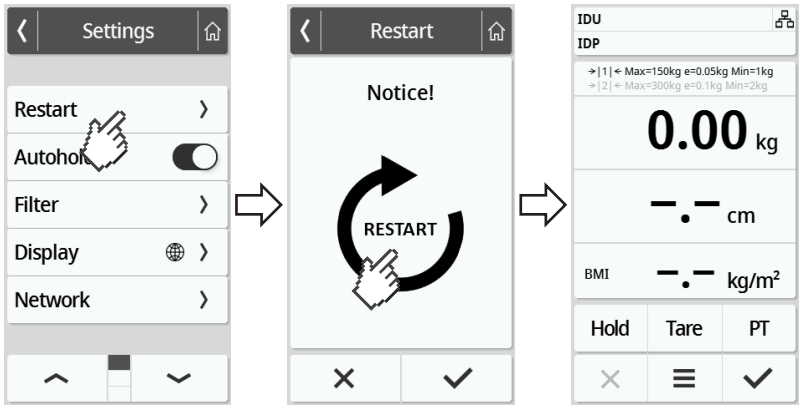
10.6 Restarting the device

In individual cases (e.g. following implausible input) it may be necessary to restart the device. To do so, use the **Restart** function in the menu or interrupt the power supply and then restore it.

NOTE
All the individual settings in the device are retained in the event of a restart. If you want to reset the device to factory settings, proceed as described in the relevant section: → Factory settings, page 66

Using the “Restart” menu function

1. Make sure that there is no load on the weighing platform.
2. Press the ☰ key.
   ⇨ The **Settings** menu is displayed.
3. Press the ⌄ or ⌃ key until the **Restart** menu item is displayed.

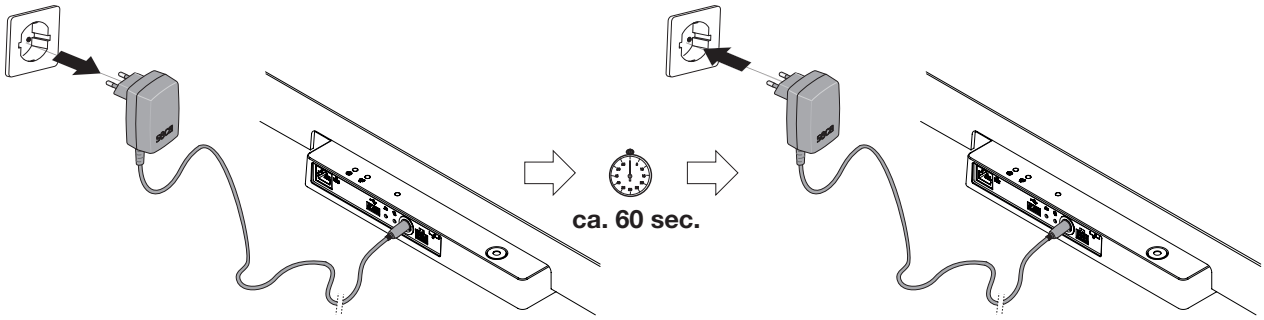


4. Press the **Restart** item.
5. Press the ↻ symbol.
   ⇨ The device restarts.
6. Wait until the main screen is displayed again.
   ⇨ The device is ready for operation.

Interrupting and restoring the power supply (power supply operation)

If restarting using the display is unsuccessful, you can briefly interrupt the power supply to the device:

1. Make sure that there is no load on the weighing platform.
2. Disconnect the power supply unit from the power supply socket.
3. Wait about a minute.



4. Plug the power supply unit back into the socket.
   ⇨ The device and the multifunctional display switch on automatically.
   ⇨ The device is ready for operation.

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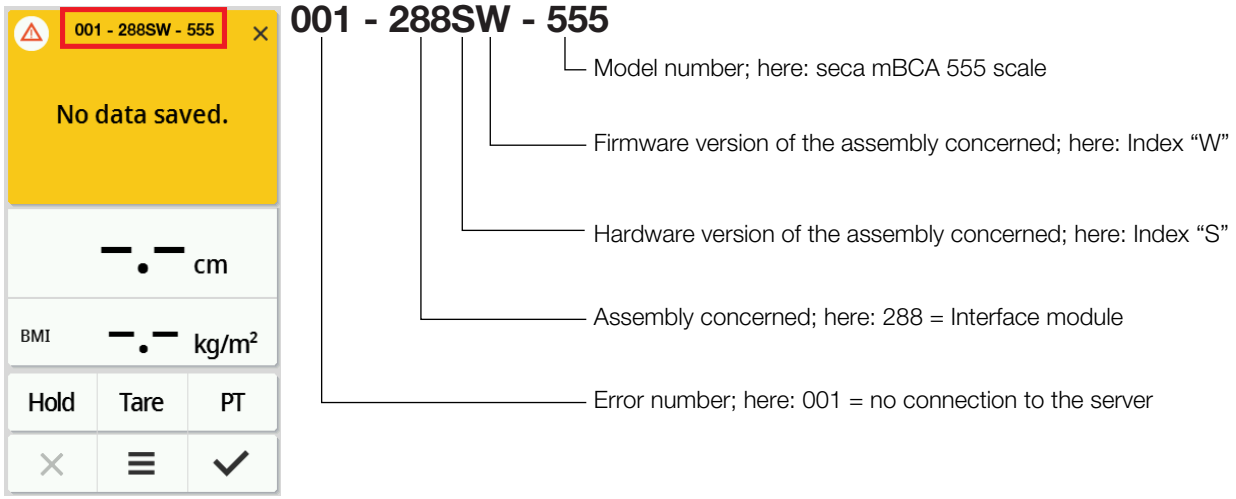
10.7 Traffic light system for display messages

Symbol	Description
	Green: Action successful, e.g. data sent to an EMR System or to the **seca analytics 125** software
	Yellow: Incorrect operation or malfunction, can be remedied by the user with the aid of the troubleshooting tables in these instructions for use (→ Troubleshooting, page 69).
	Red: Device error that cannot be remedied by the user, inform seca Service.

10.8 Error codes



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11 SERVICING

11.1 Verified scales

CAUTION!
Faulty measurements as a result of verification being performed poorly or not at all

- ► Have verification performed only by authorized persons.
- ► Always have verification performed if one or more quality seals are damaged.

seca recommends having your device serviced prior to verification.

CAUTION!
Faulty measurements as a result of poor servicing

- ► Have servicing and repairs carried out exclusively by seca Service or an authorized service partner.
- ► You can find a service partner in your vicinity at www.seca.com or by emailing service@seca.com.

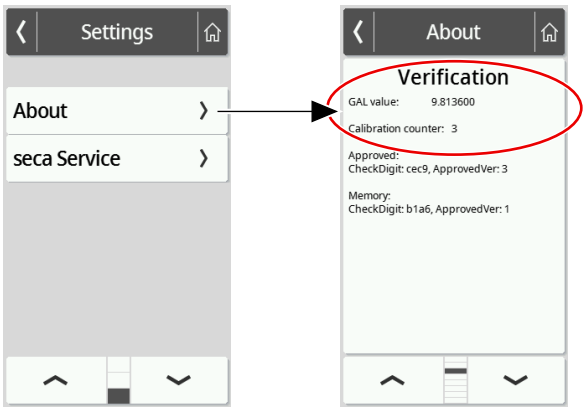
Have authorized persons perform verification in line with national legal regulations.

Verification is necessary whenever one or more quality seals are damaged or the contents of the verification counter no longer match the number on the applicable verification counter seal. If quality seals are damaged, contact seca Service directly.

Verifications may only be performed by authorized agencies. To guarantee this, the scale is equipped with a verification counter which records each change in verification-related data. The GAL value used by the device can also be read off.

If you want to check whether the scale has been properly verified, proceed as follows:

1. Press the ☰ key.
   ⇨ The **Settings** menu is displayed.
2. Press **About**.
3. Press the ⌄ or ⌃ key until the **Verification** menu item is displayed.



4. Read off the GAL value (figure shows example values).

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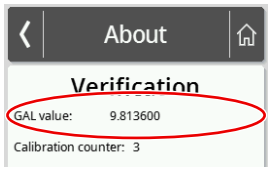
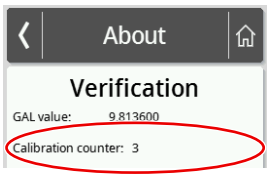


5. Read off the verification counter.



⇨ The value must match the number indicated on the verification counter seal (figure shows example values).

Both numbers have to match for the verification to be valid. If the verification sticker and the verification counter do not match, the scale must be verified. Please contact your service partner or seca Service. Once the scale has been verified, a new, updated verification counter sticker is used to identify the verification counter reading. The person authorized to perform verification secures this verification with an additional seal. The verification counter sticker can be ordered from seca Service.

11.2 Non-verified scales

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

CAUTION!
Faulty measurements as a result of poor servicing

- ► Have servicing and repairs carried out exclusively by seca Service or an authorized service partner.
- ► You can find a service partner in your vicinity at www.seca.com or by emailing service@seca.com.

11.3 Height measuring devices

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

CAUTION!
Faulty measurements as a result of poor servicing

- ► Have servicing and repairs carried out exclusively by seca Service or an authorized service partner.
- ► You can find a service partner in your vicinity at www.seca.com or by emailing service@seca.com.

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11.4 Devices for bioimpedance measurement

The measurement technology for bioimpedance measurement (BIA) must be inspected every two years. seca recommends having the entire device serviced during this inspection.

CAUTION!
Faulty measurements as a result of poor servicing

- ► Have servicing and repairs carried out exclusively by seca Service or an authorized service partner.
- ► You can find a service partner in your vicinity at www.seca.com or by emailing service@seca.com.

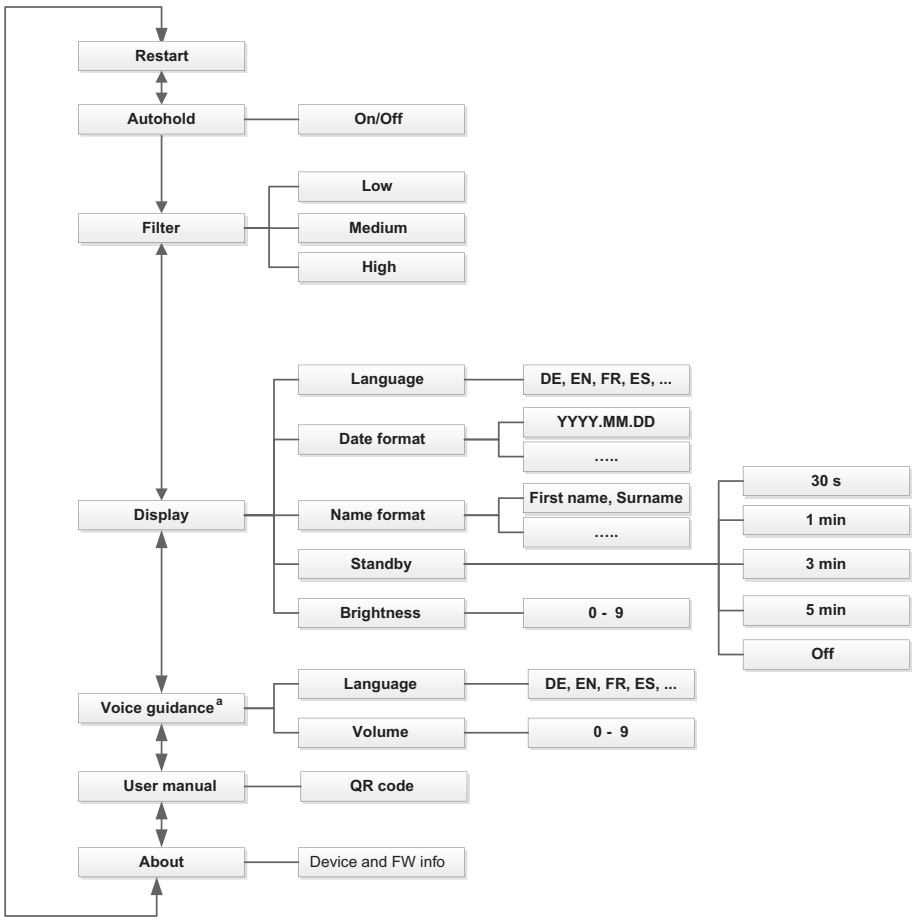
12 TECHNICAL DATA

12.1 Menu structures

“Basic” device mode

In **Basic** device mode, only the **Restart** menu item is available.

"Advanced" device mode



a For combinations of devices with ultrasonic measuring rod

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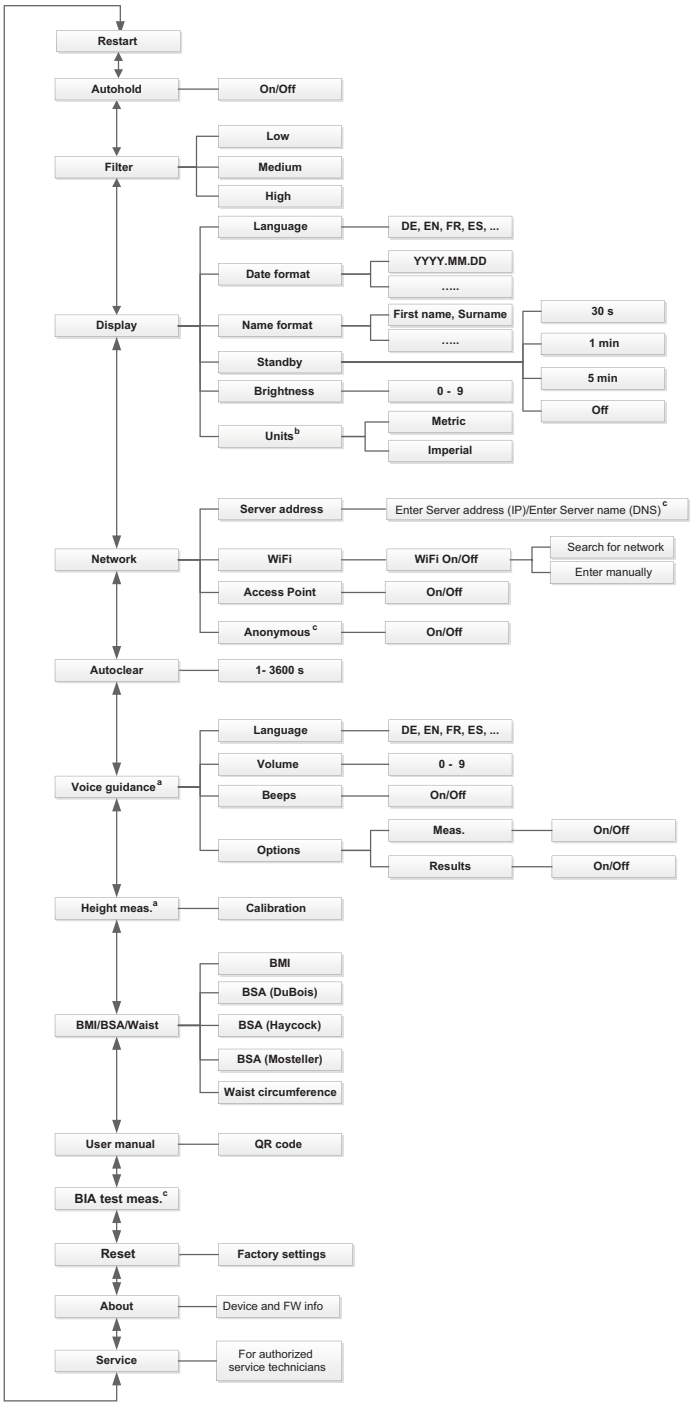
"Expert"/"Service" device modes



a For combinations of devices with ultrasonic measuring rod
b Only for non-verified scales
c Only use in consultation with seca Service

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12.2 Functions/device mode

Function	Device mode			
	Basic	Advanced	Expert	Service
Measure				
Measure bioimpedance	•	•	•	•
Calculate **BMI**/**BSA** automatically	•	•	•	•
Measure weight	•	•	•	•
Record IDs (user/patient) [a]	•	•	•	•
Enter height manually	•	•	•	•
Measure height	•	•	•	•
Permanently display measured results (**Hold**)	–	•	•	•
Submit measured results [a]	•	•	•	•
Enter waist circumference	–	•	•	•
Tare additional weight (**Tare**)	–	•	•	•
Permanently save the additional weight (**Pre-tare**)	–	•	•	•
Configure				
Permit anonymous measurement [a b]	–	–	–	•
Activate/deactivate announcement of measured results (**Results**)	–	–	•	•
Activate/deactivate announcement of patient instructions (**Meas.**)	–	–	•	•
Access PDF version of the instructions for use (QR code)	–	•	•	•
Perform BIA test measurement [b]	–	–	•	•
Autoclear function: Define time period	–	–	•	•
Activate **Autohold** function	–	•	•	•
Use **Restart** function	•	•	•	•
Set filter (sensitivity of the scale to patient movements)	–	•	•	•
Set date format	–	•	•	•
Set name format	–	•	•	•
Set display brightness	–	•	•	•
Set display language	–	•	•	•
Read off verification counter reading (verified scales)	–	•	•	•
Switch over units (non-verified scales)	–	–	•	•
Read off GAL value	–	•	•	•
Connect device to WiFi network (WPS)	–	–	•	•
Connect device to WiFi network (directly)	–	–	•	•
Connect devices to WiFi network (**seca connect 103**)	–	–	•	•
With network connection: Enter server name (DNS) Enter IP address of server	 – –	 – –	 • •	 • •
Set volume for voice guidance	–	•	•	•
Call up menu	–	•	•	•
Service functions [c]	–	–	–	•
Activate/deactivate beeps for ultrasonic height measurement	–	–	•	•
Select language for voice guidance	–	•	•	•

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Function	Device mode			
	Basic	Advanced	Expert	Service
Set standby time	–	•	•	•
Calibrate ultrasonic measuring rod	–	–	•	•
Switch between BMI/BSA calculation and waist circumference input	–	–	•	•
Restore factory settings	–	–	•	•
Activate/deactivate WiFi module	–	–	•	•

[a] Devices with connection to an EMR System or the **seca analytics 125** software (directly or via **seca connect 103** software)

[b] Only use following discussion with seca Service

[c] For authorized service technicians only

12.3 General technical data

General technical data	
Ambient conditions, operation: • Temperature • Air pressure • Humidity	 +10 °C to +40 °C (50 °F to 104 °F) 700 hPa – 1060 hPa 20 % – 80 %, no condensation
Ambient conditions, storage: • Temperature • Air pressure • Humidity • Warm-up time from lowest storage temperature to operational temperature – At ambient temperature 20 °C – At ambient temperature 20 °C with condensation • Cooling time from highest storage temperature to operational temperature (at ambient temperature 20 °C)	 -10 °C to +65 °C (14 °F to 149 °F) 700 hPa – 1060 hPa 0 % – 95 %, no condensation 8 h 24 h 8 h
Ambient conditions, transport • Temperature • Air pressure • Humidity	 -10 °C to +65 °C (14 °F to 149 °F) 700 hPa – 1060 hPa 0 % – 95 %, no condensation
Power supply: Plug-in power supply unit • Supply voltage • Maximum current consumption	 12 V max. 1.5 A
Mains voltage	100 V – 240 V
Power supply frequency	50 Hz – 60 Hz
Power consumption	max. 18 W
IEC 60601-1: Medical electrical device, Type BF	
Type of protection to IEC 60529	IP 21
Duty cycle	Continuous duty
Medical device in accordance with Regulation (EU) 2017/745 (Europe):	Class IIa
Application parts to IEC 60601-1 (Europe): • **seca mBCA 555/554**, **seca mBCA 552** scales • **seca mBCA 550**, **seca mBCA 549** BIA handrail • BIA handle **seca mBCA 545**, **seca mBCA 542**	 Multifunctional display, glass plate, foot electrodes Recessed handles with hand electrodes Recessed handles with hand electrodes

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General technical data	
Interfaces: • USB • WiFi • LAN • Internal bus system/multifunctional display	 USB 2.0, max. 500 mA 2.4 GHz, IEEE 802.11b/g/n/e/i IEEE 802.3u seca device bus (SDB)
Minimum weight (triggering measurement for combinations of devices with voice guidance)	0.5 kg

12.4 Dimensions and weights

Dimensions and weights	
Scale with BIA handrail	
Dimensions: • Depth • Width • Height	 653 mm 839 mm 1280 mm
Net weight	Approx. 26.5 kg
Scale with BIA handle	
Dimensions: • Depth • Width • Height	 635 mm 595 mm 1236 mm
Net weight	Approx. 20.8 kg
Scale with BIA handrail and ultrasonic measuring rod	
Dimensions: • Depth • Width • Height (standard/short column)	 650 mm 839 mm 2387 mm/2187 mm
Net weight	Approx. 30.5 kg

12.5 Weight measurement

Verified model	
Verification in line with Directive 2014/31/EU	Class III
Maximum capacity • Weighing range 1 • Weighing range 2	 150 kg 300 kg
Minimum capacity • Weighing range 1 • Weighing range 2	 1 kg 2 kg
Graduation • Weighing range 1 • Weighing range 2	 50 g 100 g
Tare range	300 kg (subtractive)
Accuracy on initial verification • Weighing range 1: 0 to 25 kg • Weighing range 1: 25 to 100 kg • Weighing range 1: 100 to 150 kg • Weighing range 2: 0 to 50 kg • Weighing range 2: 50 to 200 kg • Weighing range 2: 200 to 300 kg	 ± 25 g ± 50 g ± 75 g ± 50 g ± 100 g ± 150 g

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Non-verified model	
Maximum capacity	360 kg
Minimum capacity	1 kg
Graduation	50 g
Tare range	360 kg (subtractive)
Accuracy • 0 kg to 50 kg • 50 kg to 360 kg	 ± 50 g ± 50 g / ± 0.1 %

12.6 Height measurement

Measuring range, graduation, accuracy	
Height measurement, standard	
• Measuring range with BIA handrail • Graduation	100 – 220 cm 1 mm
Accuracy • Measuring range 100 – 200 cm • Measuring range > 200 – 220 cm 20° C ambient temperature, no air movement, no interfering objects in the vicinity of the measuring range	 ± 5 mm ± 6 mm
Height measurement, short	
• Measuring range with BIA handrail • Graduation	100 – 200 cm 1 mm
Accuracy • Measuring range 100 – 180 cm • Measuring range > 180 – 200 cm 20° C ambient temperature, no air movement, no interfering objects in the vicinity of the measuring range	 ± 5 mm ± 6 mm

Signals and voice output	
Power LED on ultrasound head lights up continuously.	The device is ready to measure.
"Please stand upright and look straight ahead."	Instruction to the patient.
Power LED on ultrasound head goes off.	The measurement is in progress.
"Do not move. The measurement starts now."	Instruction to the patient.
Short beeps.	The measurement is in progress.
Long beep.	The measurement is complete.
"Your weight is (...) kilograms. Your height is (...) centimeters. Your BMI is (...)."	Announcement of the measuring results.
"The measurement is complete. Please leave the platform."	Instruction to the patient.

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12.7 Bioimpedance measurement

Technical data, bioimpedance measurement	
Measuring method	8-point bioimpedance measurement
Electrode type: • Hand electrodes, BIA handrail **seca mBCA 550**, **seca mBCA 549** • Hand electrodes, BIA handle **seca mBCA 545**, **seca mBCA 542** • Foot electrodes	 2 x 2 pairs, chromed plastic 2 x 1 pairs, chromed plastic 2 pairs, ITO coating
Measurement frequencies (kHz)	1; 2; 5; 10; 20; 50; 100; 200; 500
Measured values	Impedance (Z), resistance (R), reactance (X_c), phase angle (ϕ)
Phase angle measuring range	0° to 20°
Impedance measuring range	10 Ω to 1000 Ω
Measuring segments	Right arm, left arm, right leg, left leg, right half of body, left half of body, torso
Measuring current	100 µA (+20 %, -50 %)
Measuring time	max. 30 s
Accuracy (frequencies: 1; 2; 5; 10; 20; 50 kHz, segments: right half of body, left half of body): • Impedance (phase angle 0°) • Phase angle (phase angle 0°), impedance 200 Ω to 1000 Ω)	 ± 5 Ω ± 0.5°
Minimum age of patient	5 years
Height of patient	≥ 130 cm
Analysis parameters	No result display on the device, see **seca analytics 125** software instructions for use

13 OPTIONAL ACCESSORIES AND SPARE PARTS

Accessory/spare part	Article number
Switch-mode power supply unit: 100-240 V~ / 50-60 Hz, 12 V= / 1.5 A / 18 W	68 32 10 273
Barcode scanner	See recommendation at www.seca.com
seca 463 holder for barcode scanner	463 0000 009
“Panda bear” figure **seca 459** (not compatible with BIA handle **seca mBCA 545/542**)	459 0000 009
seca 487 “animals” sticker for ultrasonic measuring rods	487 0045 009
BIA Test Kit **seca 474**	474 0000 009

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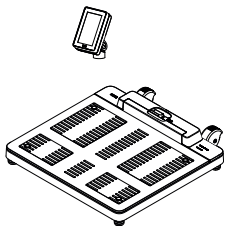
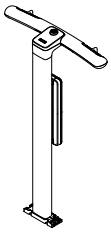
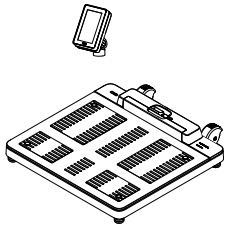
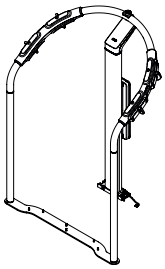
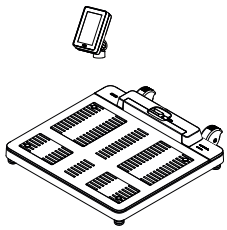
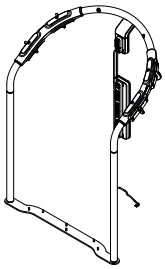
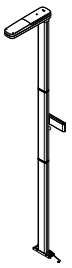
14 COMPATIBLE SECA PRODUCTS

Scale	Handrail/Handle	Measuring rod	Configuration software	Analysis software
seca Medical, housing color: White				
 **seca mBCA 555/554** 555 7021 099 554 1321 009	 **seca mBCA 545** 545 0017 009	–	 **seca connect 103** from Version 2.0	 **seca analytics 125**
 **seca mBCA 555/554** 555 7021 099 554 1321 009	 **seca mBCA 550** 550 0010 009	–	 **seca connect 103** from Version 2.0	 **seca analytics 125**
 **seca mBCA 555/554** 555 7021 099 554 1321 009	 **seca mBCA 550** 550 0000 009	 **seca 257**, standard 257 1714 009 **seca 257**, short 257 2914 009	 **seca connect 103** from Version 2.0	 **seca analytics 125**

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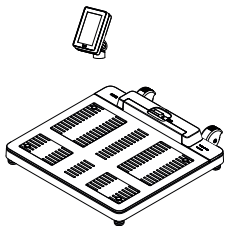
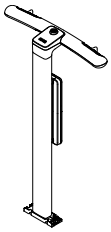
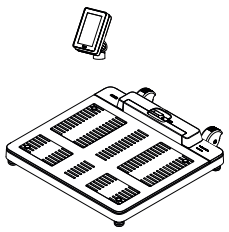
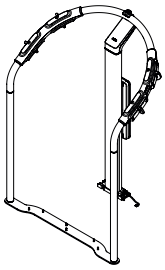
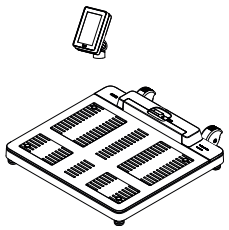
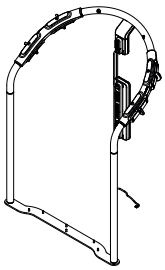
Scale	Handrail/Handle	Measuring rod	Configuration software	Analysis software
seca Fitness, housing color: Black/anthracite				
 **seca mBCA 552** 552 1333 009	 **seca mBCA 542** 542 0009 009	–	 **seca connect 103** from Version 2.0	 **seca analytics 125**
 **seca mBCA 552** 552 1333 009	 **seca mBCA 549** 549 0133 009	–	 **seca connect 103** from Version 2.0	 **seca analytics 125**
 **seca mBCA 552** 552 1333 009	 **seca mBCA 549** 549 0033 009	 **seca 256** 256 1733 009	 **seca connect 103** from Version 2.0	 **seca analytics 125**

15 DISPOSING OF THE DEVICE

Do not dispose of the device in your household waste. The device must be properly disposed of as electronic scrap. Follow your respective national regulations. For more information, please contact seca Service at **service@seca.com**.

16 WARRANTY

There is a two-year warranty period from delivery for defects attributable to poor materials or workmanship. All movable parts, e.g. batteries, cables, power supply units, rechargeable batteries etc. are exempt. Defects which come under the warranty will be repaired for the customer free of charge against proof of purchase. Additional claims cannot be considered. Costs of transport to and from seca are the responsibility of the customer if the device is located somewhere other than the customer's headquarters. In the event of transport damage, claims under warranty can only be made if the com-

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plete original packaging was used for transport and the device was secured and fastened in it according to its originally packaged condition. You should therefore keep all packaging parts.

The warranty will be voided if the device is opened by persons not expressly authorized by seca to do so.

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

17 DECLARATIONS OF CONFORMITY

17.1 Europe

CE M22 0102 0123 CE 0123

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

17.2 USA and Canada

seca 651/650
seca 655/654
seca mBCA 555/554/552

WiFi Module:
FCC 2AC7Z-ESPWROOM02
IC 21098-ESPWROOM02

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. (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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.

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All contact data at seca.com

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