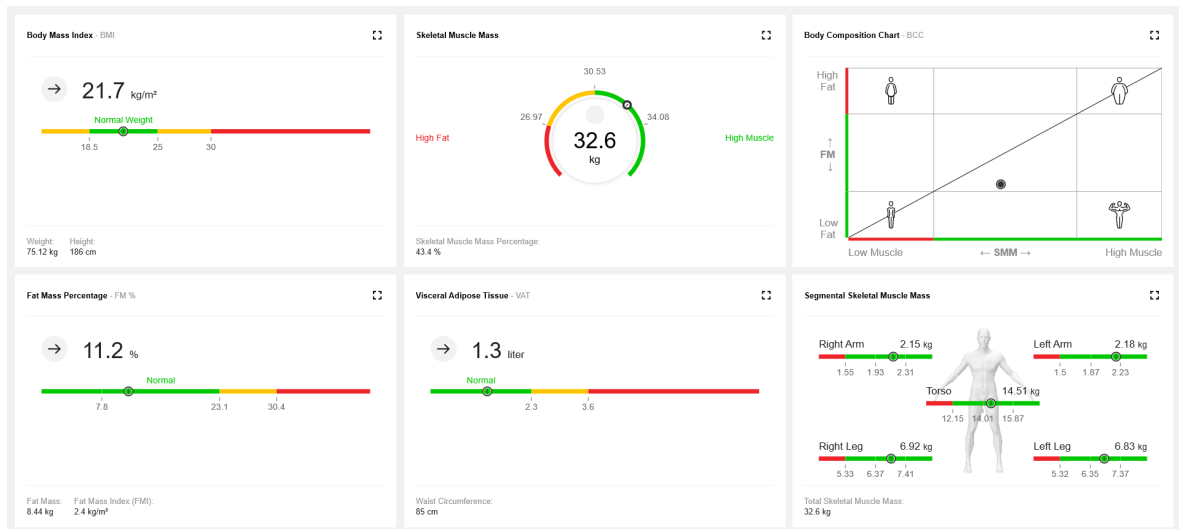


seca analytics 125

Instructions for use

Software version 1.1.0
17-10-01-267-002a_05-2020S



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1. ABOUT THIS DOCUMENT

→ [Display conventions](#)

→ [Download/updating](#)

These instructions for use contain information about operating the **seca analytics 125** software.

NOTE

- Information about setting up the **seca analytics 125** software connection to the **seca connect 103** software can be found in the System instructions for use **seca 103/452**.
- An overview of compatible seca products is available here:
→ [Compatible seca products](#)

1.1 Display conventions




→ [Display in the text](#)

→ [Display in graphics](#)

Display in the text

Symbol	Description
▶	Handling instruction
1. 2.	Handling instructions which have to be performed in the specified sequence
a) b)	Steps of a handling instruction which have to be performed in the specified sequence
•	First level of a list
–	Second level of a list
Weight	Element of the graphical user interface

Display in graphics

Symbol	Description
	Points to an element the user is clicking or has clicked
	Points to relevant locations in graphics
	Indicates data transmission routes

1.2 Download/updating

The current instructions for use in each case can be found in the Download area at www.seca.com.

NOTE

The contents of the instructions for use may change (for example as a result of a new software version).

- ▶ Check at regular intervals whether a new version of the instructions for use is available.
- ▶ You can also call up the Download area of www.seca.com via the software: → [Downloading instructions for use](#)

2. DESCRIPTION OF THE SOFTWARE

- [Intended use](#)
- [Description of function](#)
- [Patient target group](#)
- [User qualification](#)

2.1 Intended use

The software **seca analytics 125** is mainly used in hospitals, medical practices, outpatient and inpatient health care facilities and in medically oriented fitness facilities in accordance with national regulations.

The software **seca analytics 125** automatically records, documents and displays clinical measuring results and predicts parameters for body composition analysis which can be derived from them – such as FMI (Fat Mass Index), for example.

The results are displayed in graphical form and support qualified users in the following cases:

- Documentation of weight changes
- Documentation of state of nutrition and any changes
- Documentation of treatment success, for example in the context of a multimodal diet and exercise regime
- Documentation of fluids status and any changes

The software **seca analytics 125** can be combined with the seca devices listed in the compatibility matrix to measure weight and height, as well as predict parameters for body composition (→ [Compatible seca products](#)).

2.2 Description of function

- [Operation](#)
- [Determining body composition](#)
- [Data transmission of measuring results](#)
- [Managing patient data](#)
- [Managing user data](#)
- [Analysis](#)
- [Compatibility](#)

Operation

The **seca analytics 125** software is a web application. A computer with a browser and an internet connection are required to use the **seca analytics 125** software.

Determining body composition

Bioimpedance measurements to determine body composition are started on a compatible seca mBCA.

The results of a bioimpedance measurement are assigned to a patient in the **seca analytics 125** software and analyzed in graphical form.

The **seca analytics 125** software can only manage bioimpedance measurements determined using a compatible seca mBCA.

Data transmission of measuring results

The **seca analytics 125** software is connected to compatible seca measuring devices via the **seca connect 103** software. The measured data are transmitted by the measuring device to the **seca connect 103** software via LAN or WiFi; from there the data are transmitted to the **seca analytics 125** software.

Managing patient data

Patient data can be displayed and edited in the **seca analytics 125** software. The data are saved in a seca online data storage facility.

Patient data contain only data necessary for working with seca products, determined using seca products or added manually by users of the **seca analytics 125** software.

Managing user data

The following roles can be assigned to users of the **seca analytics 125** software: User or administrator. Both roles can be assigned when the user is simultaneously performing the administrative activities of the administrator.

User accounts can only be set up or edited by an administrator. A user name, an e-mail address and a password are required to use the **seca analytics 125** software.

Analysis

Measuring results are analyzed in graphical form based on scientifically-established formulas. In-house studies by seca established formulas for determining the parameters total body water (TBW), extracellular water (ECW), fat-free mass (FFM) and skeletal muscle mass (SMM) for arms, legs, torso and the whole body. In these studies, in-house reference values were determined for the following parameters to allow normal ranges to be shown: Bioimpedance vector analysis (BIVA), mass indices (FMI, FMMI), phase angle (ϕ).

Compatibility

Version 1.1 of the **seca analytics 125** software is compatible only with the **seca connect 103** software from version 2.0 upwards and compatible seca measuring devices (→ [Compatible seca products](#)).

2.3 Patient target group

- ▶ Follow the instructions for use for the seca measuring device used (→ [Compatible seca products](#)).

2.4 User qualification

The software may only be used by persons who have received instruction on how to use it.

3. SAFETY INFORMATION

→ [Safety precautions in these instructions for use](#)

→ [Basic safety precautions](#)

3.1 Safety precautions in these instructions for use



DANGER!

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



WARNING!

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



CAUTION!

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

NOTICE!

Used to identify possible incorrect usage of the device/software. If you fail to take note of this information, the device/software may be damaged, incorrect measured results may arise or data may be misused or lost.

NOTE

Contains additional information about how to use the device/software.

3.2 Basic safety precautions

→ [Using the software](#)

→ [Handling measuring results](#)

Using the software

- ▶ Please take note of the information in these instructions for use.
- ▶ Keep the instructions for use and the declaration of conformity they include in a safe place. The current version of the instructions for use can be found at www.seca.com. The instructions for use are a component of the software 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 the authority responsible in your country.



CAUTION!

Patient hazard, malfunction

- ▶ Only install the **seca analytics 125** software on PCs equipped with an antivirus program. Always keep your antivirus program and operating system up to date to protect your computer system from

current and future malware. The **seca analytics 125** software is protected from manipulation and was checked for malware at the time the software was created.

- ▶ Use the **seca analytics 125** software only for the specified intended use.
- ▶ Use only compatible measuring devices from seca in combination with the **seca analytics 125** software.
- ▶ Keep other electrical medical devices, e.g. high-frequency surgical devices, a minimum distance of approx. 1 meter away to prevent incorrect measurements or wireless transmission interference.
- ▶ Keep HF devices such as cell phones and televisions, for example, a minimum distance of approx. 1 meter away to prevent incorrect measurements or wireless transmission interference.
- ▶ The actual transmission output of HF equipment may require minimum distances of more than 1 meter. Details can be found at www.seca.com.

NOTICE!

Loss of data, access to data by unauthorized persons

- ▶ Never pass on your access data. seca will never ask you for your access data.

Handling measuring results



CAUTION!

Patient hazard

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

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

NOTICE!

Inconsistent measuring results

- ▶ Before you save measuring results, ensure that the measured values are plausible and have been assigned to the correct patient.

NOTICE!

Results not comparable to other devices

Results of bioelectric impedance measurements are not interchangeable with measurements obtained from different manufacturers' devices. 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.

4. DISPLAY AND CONTROLS

→ [Menu bar](#)

→ [View: Measurements](#)

→ [View: Analysis](#)

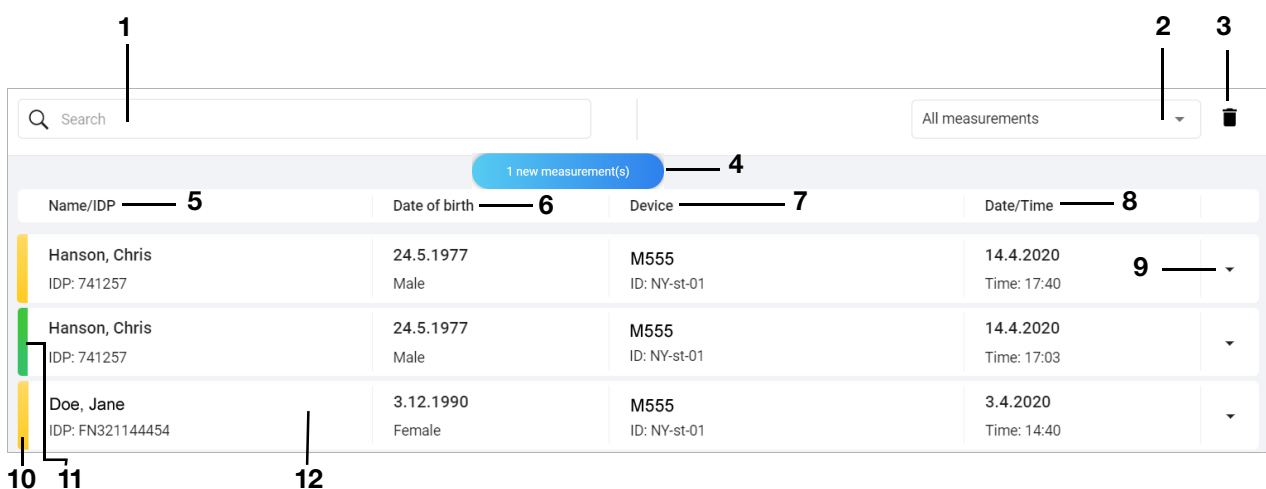
→ [Color symbols and other display and control elements](#)

4.1 Menu bar



Item	Element name	Element type	Function
I	Main menu	Button	Open/close main menu
II	Measurements	Button	Call up Measurements view
III	Logout	Button	Log out user

4.2 View: Measurements






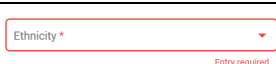






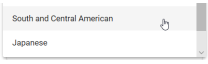


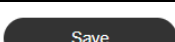





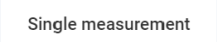

Item	Element name	Element type	Function
1	Search	Free text field	Filter measurements by the sequence of characters entered
2	Status filter	Dropdown menu	Select which measurements are displayed: <ul style="list-style-type: none"> • All measurements • Mandatory data required (→ 10) • Available analyses (→ 11)
3	Trash	Button	Open/close Trash view
4	New measurements message	Display element, button	<ul style="list-style-type: none"> • Indicates that there are new measurements • Click the message to add the new measurements to the list of all measurements
5	Name/IDP	Column title, button	<ul style="list-style-type: none"> • Displays the name and IDP of the patient measured (IDP = patient ID) • Sort column entries by clicking
6	Date of birth	Column title, button	<ul style="list-style-type: none"> • Displays the patient's date of birth and gender • Sort column entries by date of birth by clicking
7	Device	Column title, button	<ul style="list-style-type: none"> • Displays the ID and name of the measuring device used to perform the measurement • Sort column entries by device ID by clicking
8	Date/Time	Column title, button	<ul style="list-style-type: none"> • Displays the date and time of the measurements. The default setting displays the latest measurement on top. • Sort column entries by clicking
9	Dropdown arrow	Button	Open/close measurement data record













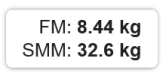





Item	Element name	Element type	Function
10	Yellow marking	Display element	Indicates that mandatory data for the measurement is required. Necessary in order to be able to call up an analysis for this measurement (→ Processing measurements).
11	Green marking	Display element	Indicates that an analysis can be called up for this measurement (→ Viewing analyses)
12	Measurements	Button	<ul style="list-style-type: none"> • Click on a yellow measurement: Open data record (mandatory data required) • Click on a green measurement: Open analysis

4.3 View: Analysis

Item	Element name	Element type	Function
A	Patient data	Display element	Displays name, patient ID (IDP), gender and date of birth
B	Analysis modules	Dropdown menu	Select analysis module
C	Single measurement / Trend	Toggle button	Switch between analyzing an individual measurement and analyzing several measurements
D	Print icon	Button	Export analysis in the form of a PDF
E	Comments	Button, display element	<ul style="list-style-type: none"> Show/hide comment column The blue number indicates the number of comments (only when comment column is hidden)
F	Comment entry	Display element	Displays the date, time, name of the author and the comment
G	Comment options	Button	Delete comment
H	Comment input	Input field, button	<ul style="list-style-type: none"> Enter new comment (max. 500 characters) Add new comment
I	Tile	Display element	Displays an analysis parameter in graphical form (Elements in tiles: → Color symbols and other display and control elements)
J	List of measurements	Display element, button	<ul style="list-style-type: none"> Displays a patient's measurements from the selected period (→ K) Select a measurement for graphical display. The selected measurement is highlighted in gray.
K	Time filter	Dropdown menu	Filter a patient's measurements by period

4.4 Color symbols and other display and control elements

Display/control element	Display	Meaning/function
Input field		Gray surround, gray text: Field not selected, no entry available
		Black surround: Field selected
		Gray surround, black text: Field not selected, entry available
		<ul style="list-style-type: none"> • Red surround, asterisk: Input/selection required or incorrect input • Red text: Error message/input assistance
		Asterisk: Mandatory field
Search field/ dialog field		<ul style="list-style-type: none"> • Clear search text • Close dialog field
Comment field		Enlarge/reduce comment field (in the data record for a measurement)
Menu		Menu closed
		Menu open
		Dark gray field: Option already selected or preselected (default: first option preselected)
		Light gray field: Option selected with the mouse pointer (confirm selection with a click)
		White field: Option not selected
Button		Light gray: Option not selected
		Black: Option already selected or preselected
Checkbox		Empty: Option not selected
		Tick: Option selected
Message		Green: Confirmation
		Red: Error
		Blue: Information
Font	Administrator, User	Black: Active
	Administrator, User	Gray: Inactive
Tab		Black font with selection bar: Tab selected
		Gray font without selection bar: Tab not selected

Display/control element	Display	Meaning/function
Tile		Displays additional information about the analysis parameter (→ Showing/hiding additional information)
		Call up full-screen view of the analysis parameter
		Exit full-screen view of the analysis parameter
	 (Example)	Green: Value within normal range Yellow: Value increased or low Red: Value outside normal range Detailed information about the color symbols in the individual analysis parameters: → Limit values and color symbols
		Marking of a value on a color scale in Single measurement view (color depends on position on color scale)
		Marking of a selected value in Trend view (color depends on position on color scale)
		Marking of non-selected values in Trend view
		Value outside range which can be displayed
		Value constant (compared to previous measurement)
		Value risen (compared to previous measurement)
		Value fallen (compared to previous measurement)
		Value and difference from previous value of the selected measurement (Trend view)
		Display of the values for Fat Mass (FM) and Skeletal Muscle over Age (SMM) (Body Composition Chart (BCC) analysis parameter)
		Marks a range which is shown enlarged in an associated graphic (PDF printout)
		Marks the Underweight range (low muscle, low fat) (Body Composition Chart (BCC) analysis parameter)
		Marks the Obesity range (high muscle, high fat) (Body Composition Chart (BCC) analysis parameter)
		Marks the Sarcopenic Obesity range (low muscle, high fat) (Body Composition Chart (BCC) analysis parameter)
		Marks the Athletic Build range (high muscle, low fat) (Body Composition Chart (BCC) analysis parameter)

5. SETTING UP

- [Data transmission](#)
- [System requirements](#)
- [E-mail receipt](#)
- [Initial login](#)

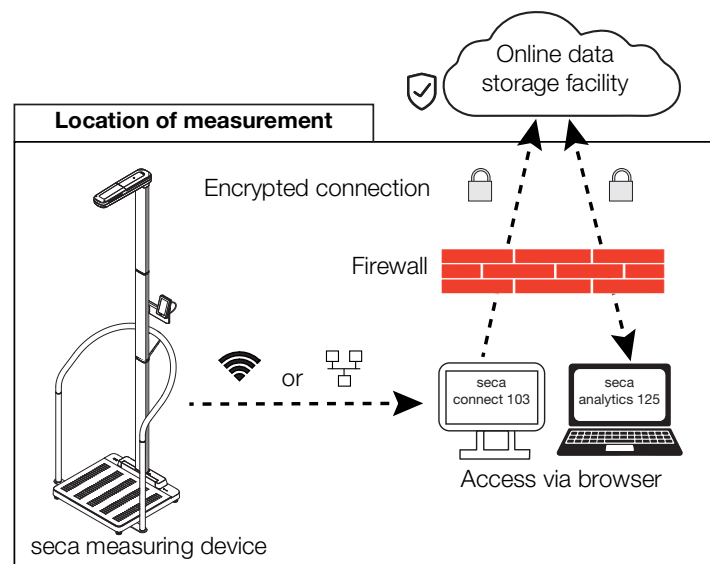
This section is aimed at administrators and contains both information on setting up the necessary data connections and on setting up the terminal devices on which the **seca analytics 125** software is used.

5.1 Data transmission

For data transmission, seca measuring devices and the **seca analytics 125** software must be connected via the **seca connect 103** software. The connection is set up in the **seca connect 103** software.

- ▶ Follow the System instructions for use **seca 103/452**.
- ▶ Set up the connection in collaboration with seca Service.

The graphic gives a summary of data transmission between a seca measuring device and the **seca analytics 125** software via the **seca connect 103** software.



5.2 System requirements

The **seca analytics 125** software is a web application which is called up and operated via a browser.

System component	Requirement
Hardware	<ul style="list-style-type: none">• PC• Resolution: Minimum 1920 x 1080 recommended
Operating system	Windows® 10
Browser	Current version of: <ul style="list-style-type: none">• Google Chrome• Mozilla Firefox
Data transmission	<ul style="list-style-type: none">• LAN• WiFi
Software	Program for displaying PDF version 1.4 or higher

Windows® 10 is a registered trademark of the Microsoft Corporation.

5.3 E-mail receipt

In the course of using the **seca analytics 125** software, you and the users in your institution will receive a series of e-mails (e.g. when passwords are changed). **@secacloud.com**

- ▶ Add the domain **@secacloud.com** to your e-mail whitelist. E-mails from the **seca analytics 125** software will arrive in the user's inbox and not in the spam folder.

5.4 Initial login

1. Click the link in the e-mail you received from seca Service. The web address for the **seca analytics 125** software is called up. The **Login** dialog window is displayed.

2. Enter the access data from the e-mail you received from seca Service.
3. Click **Login**. The **Measurements** view is displayed.

NOTICE!**Data access by unauthorized persons**

The password for initial login does not provide adequate security.

- ▶ Change your password after you have logged in for the first time:
→ [Changing a password](#)

NOTICE!**Data access by unauthorized persons**

Your user account contains both administrator and user rights. If your institution does not entitle you to perform both roles, change your rights in the user account.

- ▶ In order not to be able to see patients' measured data, deactivate the **User** role: → [Editing user data](#)

4. Save the web address for the **seca analytics 125** software in your browser.

NOTE

If you use the **seca analytics 125** software on several terminal devices:

- ▶ Save the web address on all terminal devices so that all users can call up the software via "Bookmark" or "Favorite".
- ▶ Create a desktop link (if desired).

6. OPERATION

- [Using basic functions](#)
- [Viewing measurements](#)
- [Processing measurements](#)
- [Viewing analyses](#)
- [Using the comment function](#)
- [Configuring a customized analysis module](#)
- [Exporting analyses in the form of a PDF](#)

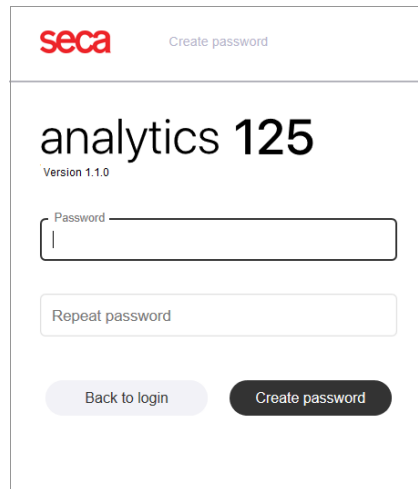
6.1 Using basic functions

- [Creating a password](#)
- [Logging in](#)
- [Changing a password](#)
- [Resetting a password](#)
- [Viewing product identification, version status and conditions of use](#)
- [Downloading instructions for use](#)
- [Viewing release notes](#)
- [Changing language](#)
- [Logging out](#)

Creating a password

If your administrator has set up a user account for you, you will receive an e-mail with an activation link. You must create your password before initial login.

1. Click the link in the e-mail.
The web address for the **seca analytics 125** software is called up.
The **Create password** dialog window is displayed.



2. Enter a password.

NOTICE!

Data access by unauthorized persons

An insecure password may allow unauthorized persons to access patient data.

- ▶ Select a password to satisfy your institution's security requirements.
- ▶ Follow the general recommendations for a safe password:
 - At least eight characters long
 - Use large and small letters as well as numbers and special characters
 - Do not use words
 - Do not use logical series of numbers or letters

3. Repeat the password to confirm it.

4. Click **Create password**.

Your password has been created.

You have the following option for continuing: → [Logging in](#)

NOTE

If the link has expired, you will have to request a new link:

- ▶ Click **Back to login**.
- ▶ Proceed as follows: → [Resetting a password](#)

Logging in


1. Call up the web address for **seca analytics 125**.
The **Login** dialog window is displayed.

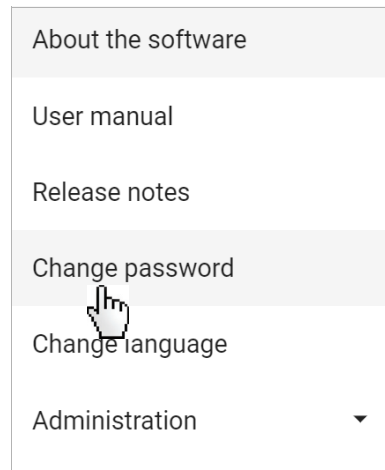
2. Enter your access data.
3. Click **Login**.
The **Measurements** view is displayed.

NOTE

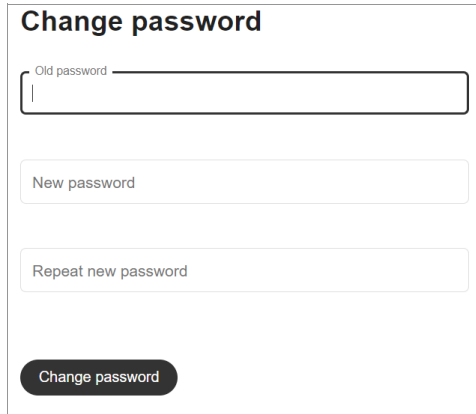
- If you are logged in as an administrator, the **User management** view will be displayed.
- If you are logging in for the first time, it may take a few seconds for the login process to complete.

Changing a password

1. Click  to open the main menu.
2. Click **Change password**.



The **Change password** dialog is displayed.



The image shows a 'Change password' dialog box. It has a title bar with the text 'Change password'. Below the title bar, there are three input fields: 'Old password', 'New password', and 'Repeat new password'. At the bottom of the dialog, there is a dark button labeled 'Change password'.

3. Enter your old password.
4. Enter a new password.

NOTICE!

Data access by unauthorized persons

An insecure password may allow unauthorized persons to access patient data.

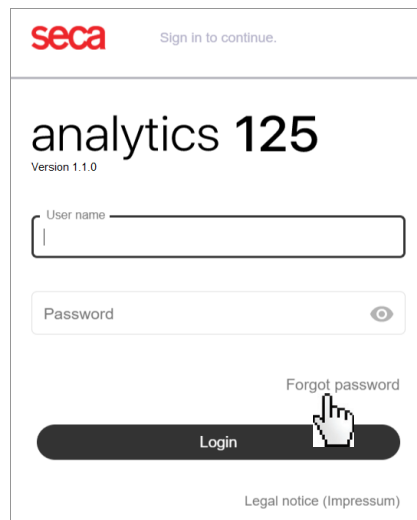
- ▶ Select a password to satisfy your institution's security requirements.
- ▶ Follow the general recommendations for a safe password:
 - At least eight characters long
 - Use large and small letters as well as numbers and special characters
 - Do not use words
 - Do not use logical series of numbers or letters

5. Repeat the new password to confirm it.
6. Click **Change password**.
The password has been changed.
You have the following option for continuing: → [Logging in](#)

Resetting a password

If you have forgotten your password, you can reset it.

1. Call up the web address for **seca analytics 125**.
The **Login** dialog window is displayed.
2. Click **Forgot password**.



The image shows a login dialog window for 'seca analytics 125'. At the top left is the 'seca' logo and 'Sign in to continue.' text. Below that is the title 'analytics 125' and 'Version 1.1.0'. There are two input fields: 'User name' and 'Password'. The 'Password' field has an eye icon to toggle visibility. Below the input fields is a 'Forgot password' link. At the bottom is a dark 'Login' button with a hand cursor icon over it. At the very bottom, there is a link for 'Legal notice (Impressum)'.

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The **Reset your password** dialog window is displayed.

3. Enter the e-mail address used to set up your user account.
4. Click **Send link**.
Your password has been reset.
An e-mail with the link to create a new password will be sent to your e-mail address.

NOTE

If you do not want to reset the password, cancel the operation.

- ▶ Click **Back to login**.

5. Open the e-mail.
6. Click the link in the e-mail.
The web address for the **seca analytics 125** software is called up.
The **Change your password** dialog window is displayed.

NOTE

If the link has expired, you will have to request a new link: → [Resetting a password](#)

7. Enter a new password.

NOTICE!


Data access by unauthorized persons

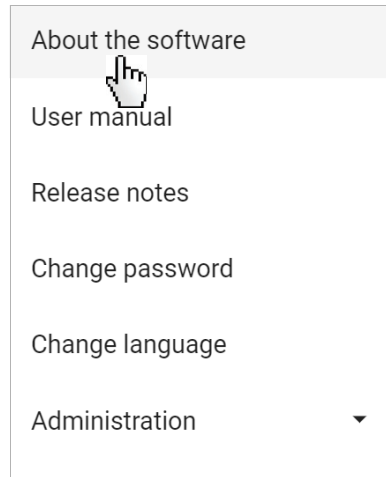
An insecure password may allow unauthorized persons to access patient data.

- ▶ Select a password which also satisfies your institution's security requirements.
- ▶ Follow the general recommendations for a safe password:
 - At least eight characters long
 - Use large and small letters as well as numbers and special characters
 - Do not use words
 - Do not use logical series of numbers or letters

8. Repeat the new password to confirm it.
9. Click **Change password**.
You have the following option for continuing: → [Logging in](#)


Viewing product identification, version status and conditions of use

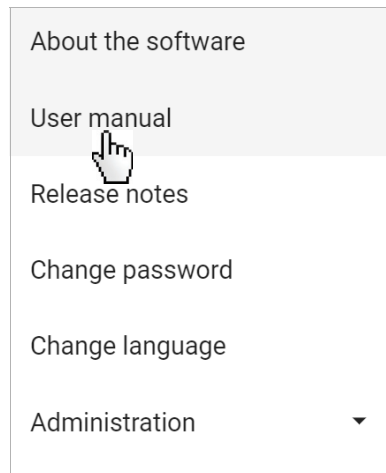
1. Click  to open the main menu.
2. Click **About the software**.



The product identification, version status, conditions of use and other product information for the **seca analytics 125** software is displayed.

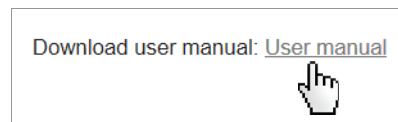
Downloading instructions for use

1. Click  to open the main menu.
2. Click **User manual**.



The **User manual** dialog is displayed.

3. Click the **User manual** link.



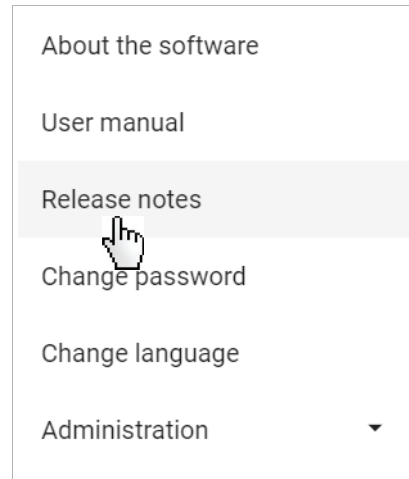
You are taken to the Download area of www.seca.com.

4. Download the instructions for use for the **seca analytics 125** software.

Viewing release notes

1. Click  to open the main menu.

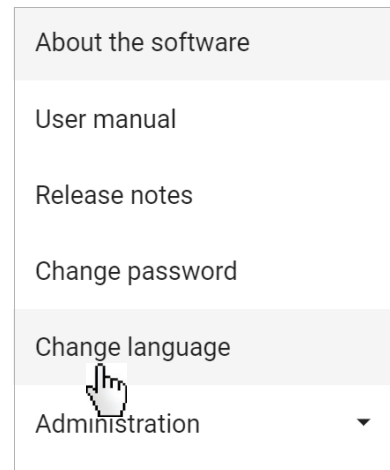
2. Click **Release notes**.



Changes to the **seca analytics 125** software are displayed.

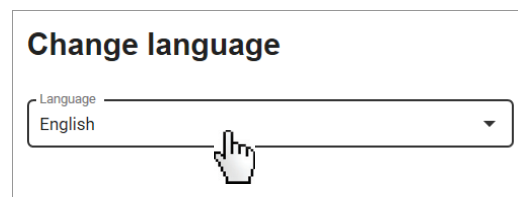
Changing language

1. Click **☰** to open the main menu.
2. Click **Change Language**.



The **Change Language** dialog is displayed.

3. Click the dropdown menu.



4. Select the desired option.
The language has been changed.

NOTE

Changing language does not affect date format. You can change the date format in your browser.

Logging out

1. In the menu bar, click **Logout**.
You are logged out.

6.2 Viewing measurements

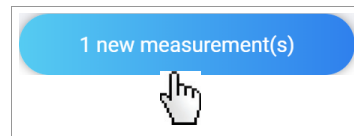
- [Calling up measurements](#)
- [Loading new measurements](#)
- [Filtering measurements by status](#)
- [Sorting measurements](#)
- [Using the search function](#)
- [Resetting all filters](#)

Calling up measurements

- ▶ In the menu bar, click **Measurements**.
The list of all measurements is displayed.

Loading new measurements



If new measurements are available, the corresponding message is displayed:



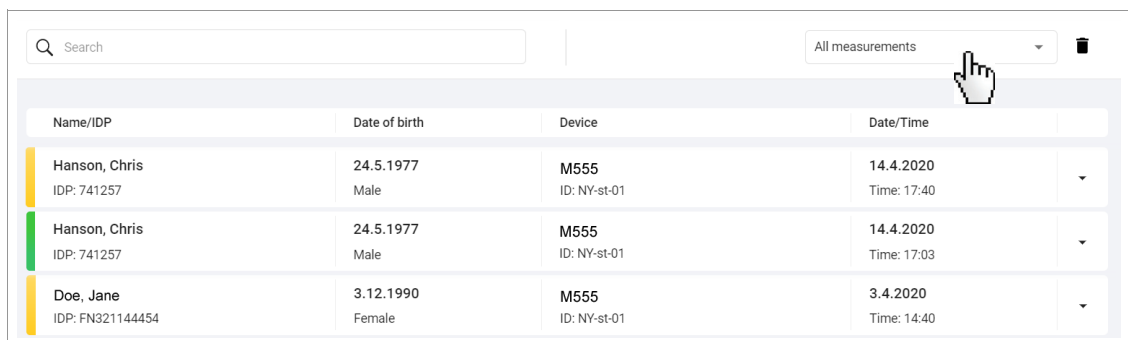
- ▶ Click the message.
The new measurements are added to the list of measurements.

Filtering measurements by status

Measurements may have different kinds of status. You can use the status filter to select which measurements are displayed.

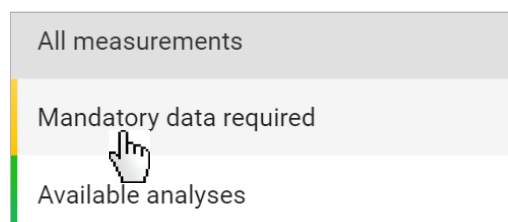
Status	Explanation	Color
Mandatory data required	Data need to be supplemented to enable an analysis to be displayed	
Available analyses	All the data necessary for an analysis are available	

1. Click the Status filter.



A dropdown field opens.

2. Select the desired option.



Only measurements with the desired status are displayed.

Name/IDP	Date of birth	Device	Date/Time
Hanson, Chris IDP: 741257	24.5.1977 Male	M555 ID: NY-st-01	14.4.2020 Time: 17:40
Hanson, Chris IDP: 741257	24.5.1977 Male	M555 ID: NY-st-01	14.4.2020 Time: 14:03
Doe, Jane IDP: FN321144454	3.12.1990 Female	M555 ID: NY-st-01	3.4.2020 Time: 14:40

Sorting measurements

You can sort measurements by column heading:

- **Name/IDP**
- **Date of birth**
- **Device**
- **Date/Time**

1. Click the desired column heading to sort the measurements. The measurements are sorted in descending or ascending order. An arrow in the column heading indicates the direction of sorting.
2. Click the column heading again to reverse the direction of sorting.

NOTE

You can reset the sorting operation you performed and all the other filters set: → [Resetting all filters](#)

Using the search function

You can find a measurement using the following parameters:

- First name
- Last name
- IDP

1. Enter a search text (at least three characters) in the **Search** input field.

Name/IDP	Date of birth	Device	Date/Time
Hanson, Chris IDP: 741257	24.5.1977 Male	M555 ID: NY-st-01	14.4.2020 Time: 17:40

Search results are displayed in the dropdown field.

NOTE

- If there are no search results, **No search results** is displayed.
- If input contains characters which are not supported, **Search failed** is displayed.

2. Click the desired search result.

Name/IDP	Date of birth
Udila, Ramona IDP FN2222223333	Date of birth: 6.12.1992
Ramirez, Mildred IDP: 2224444	Date of birth: 10.3.1995

Only measurements corresponding to the search result are displayed.

- To delete the search filter, click the **X** symbol in the **Search** input field.

NOTE

You can reset the search filter, including all the other filters and sorting operations set: → [Resetting all filters](#)

Resetting all filters

- ▶ Click **Measurements**.
All measurements are displayed. The latest measurement is shown first.

6.3 Processing measurements

- [Opening the data record for a measurement](#)
- [Creating patient ID \(IDP\)](#)
- [Assigning a measurement to an existing patient ID \(IDP\)](#)
- [Filling in data fields](#)
- [Deleting measurements](#)
- [Restoring measurements](#)

To allow the **seca analytics 125** software to display a measurement for analysis, certain measured and patient data (mandatory data) have to be available. The data already available for a measurement depend on the functional scope and configuration of the seca measuring device. Missing data can be added manually.

NOTICE!

Incorrect data assignment, inconsistent measuring results

It is not always possible to assign measurements to patients unambiguously if several patients are being measured.

- ▶ Complete and save the data record for a measurement immediately after the measurement procedure.
- ▶ If several measurements are performed consecutively, ensure that each of the measurements can be assigned to the correct patient.

Opening the data record for a measurement

- Click **Measurements**.
The list of all measurements is displayed.
- Click the dropdown arrow for the desired measurement to open the associated data record.

Name/IDP	Date of birth	Device	Date/Time
Anonym IDP: No gender data available	24.5.1977	M555 ID: NY-st-01	14.4.2020 Time: 17:40
Hanson, Chris IDP: 741257	24.5.1977 Male	M555 ID: NY-st-01	14.4.2020 Time: 17:03
Doe, Jane IDP: FN321144454	3.12.1990 Female	M555 ID: NY-st-01	3.4.2020 Time: 14:40

The data record is displayed and can be edited. Mandatory data are marked with an asterisk. Mandatory data which need supplementing are marked in red.

You have the following options for continuing:

- **IDP** field empty after first measurement of a patient:
→ [Creating patient ID \(IDP\)](#)
- **IDP** field empty after a follow-up measurement of a patient:
→ [Assigning a measurement to an existing patient ID \(IDP\)](#)
- **IDP** transmitted by seca measuring device: → [Filling in data fields](#)

Creating patient ID (IDP)

If the IDP is not automatically transmitted to the **seca analytics 125** software using a barcode/RFID scanner on the seca measuring device, it must be created manually when a patient is measured for the first time.

NOTICE!

Incorrect data assignment, inconsistent measuring results

Incorrect entries in a data record may lead to incorrect assignment of measuring results and falsify the analysis.

- ▶ Use the existing IDP if this is not the first time a patient has been measured: → [Assigning a measurement to an existing patient ID \(IDP\)](#)

1. → [Opening the data record for a measurement](#)
2. In the **IDP** field, enter a character sequence to suit the ID system used in your institution.

3. Add further data (if necessary): → [Filling in data fields](#)
4. Click **Save**.
The measurement data are saved and linked to the IDP. You have the following option for continuing: → [Viewing analyses](#)

NOTE

If you use a barcode/RFID scanner on the seca measuring device, the IDP is transmitted to the **seca analytics 125** software automatically.

Assigning a measurement to an existing patient ID (IDP)

If you set up an IDP manually when you measured the patient for the **first** time (→ [Creating patient ID \(IDP\)](#)), the existing IDP must be assigned to the patient for subsequent measurements.

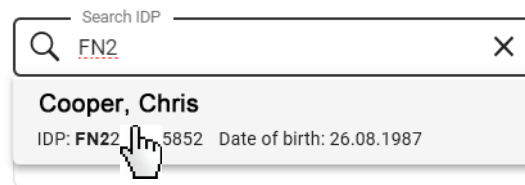
NOTICE!

Incorrect data assignment, inconsistent measuring results

Incorrect entries in a data record may lead to incorrect assignment of measuring results and falsify the analysis.

- ▶ Ensure that you assign the patient the correct IDP for all measurements.

1. → [Opening the data record for a measurement](#)
2. Click the **Search IDP** field.
3. Enter the patient's name or the first three characters of the IDP. Search results will appear as you enter the information.



4. Click the desired search result. The IDP and all the data already available for the patient will be adopted automatically unless these data have been transmitted by the seca measuring device.

NOTE

The data transmitted by the seca measuring device take priority over the data on file.

5. Add further data (if necessary): → [Filling in data fields](#)
6. Click **Save**. The data are saved. You have the following option for continuing: → [Viewing analyses](#)

Filling in data fields

NOTICE!

Incorrect data assignment, inconsistent measuring results

Incorrect entries in a data record may lead to incorrect assignment of measuring results and falsify the analysis.


- ▶ Ensure that you enter the correct data.
- ▶ Ensure that you always use the same IDP for all measurements for a patient.
- ▶ If you realize that you have inadvertently overwritten existing recorded data with incorrect data, cancel the procedure. The data record will not be saved and can be opened and processed again.
- ▶ Ensure that you enter measured values in conformity with the system for units of measurement set in the software.

NOTE

The data available in the measurement once it has been received depend on the functional scope and configuration of the seca measuring device.

1. → [Opening the data record for a measurement](#)

2. Fill in the data fields as described in the table below.

Data field	Action	Explanation
IDP	Enter or select sequence of characters	<ul style="list-style-type: none"> • Mandatory data • First measurement of the patient: → Creating patient ID (IDP) • Follow-up measurements of patient: → Assigning a measurement to an existing patient ID (IDP) <p>NOTE If you use a barcode/RFID scanner on the seca measuring device, the IDP is transmitted to the seca analytics 125 software automatically.</p>
First name	Enter the patient's first name	Optional data
Last name	Enter the patient's last name	Optional data
Date of birth	1. Click the calendar icon 2. Select the patient's date of birth	Mandatory data
Gender	Select an option from the dropdown menu	Mandatory data
Ethnicity	Select an option from the dropdown menu	Mandatory data
Height	Enter height	<ul style="list-style-type: none"> • Mandatory data <p>NOTE This value should be identical for every measurement for the patient in order to obtain an accurate trend analysis.</p> <ul style="list-style-type: none"> ▶ Edit the value manually if there are deviations in height measurement. <ul style="list-style-type: none"> • → Display of weight and height values
Waist circumference	Enter waist circumference	<ul style="list-style-type: none"> • Mandatory data • → Display of weight and height values
Weight	Enter weight	<ul style="list-style-type: none"> • Mandatory data • → Display of weight and height values
Email	Enter the patient's e-mail address	<ul style="list-style-type: none"> • Optional data • Currently no function (reserved for sending data to patient)
Note	Enter text	<ul style="list-style-type: none"> • Optional data • For recording a note about the measurement • Max. 500 characters available <p>NOTE The size of the comment field can be modified.</p> <ul style="list-style-type: none"> ▶ Keep the primary (left) mouse key depressed on the  icon and drag the field to make it larger or smaller.

3. Click **Save**.
The data are saved.

NOTE

If there is an error when saving, the measurement is displayed marked in red (→ [Troubleshooting](#)).

Deleting measurements

You can discard individual measurements in Trash. Measurements in Trash are permanently deleted automatically after three months have elapsed.

NOTE


Only the administrator can delete patient data including all the patient's measurements (→ [Deleting patient data](#)).

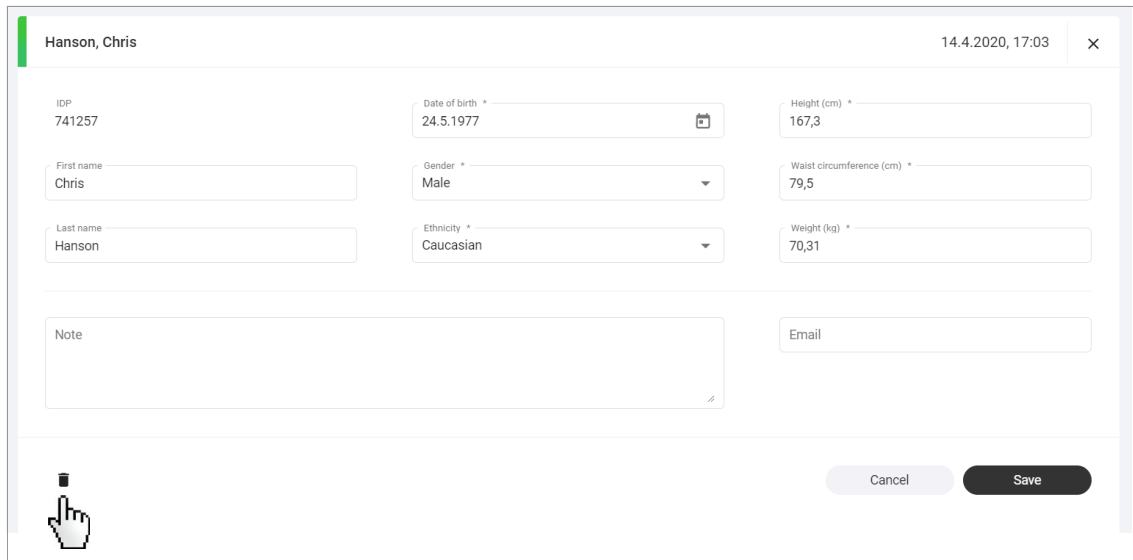
NOTICE!

Data loss

Measurements in Trash can only be restored for three months; after this time, they are deleted permanently.

- ▶ Before discarding a measurement in Trash, always check carefully whether or not the data are still required.

1. Open the measurement you want to delete (→ [Opening the data record for a measurement](#)).
2. Click .



Hanson, Chris 14.4.2020, 17:03

IDP: 741257 Date of birth: 24.5.1977 Height (cm): 167,3

First name: Chris Gender: Male Waist circumference (cm): 79,5

Last name: Hanson Ethnicity: Caucasian Weight (kg): 70,31

Note: Email:

Cancel Save

You will see a message asking whether you want to discard the measurement in Trash.

3. Click **Yes** to discard the measurement in Trash.
The measurement is discarded in Trash.
The measurement is removed from the current view.

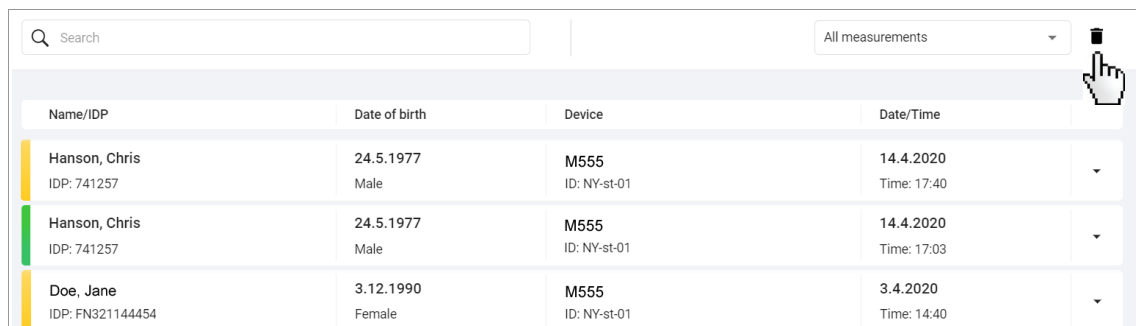
Restoring measurements

Measurements in Trash can be restored.


NOTE

Measurements remain in Trash for just three months until they are automatically deleted permanently.

1. In **Measurements** view, click .



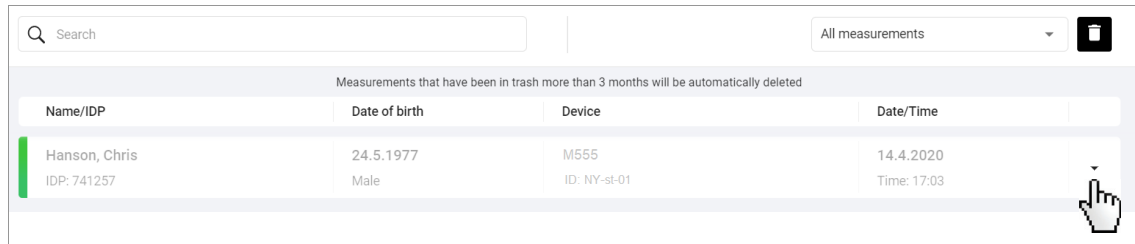
Name/IDP	Date of birth	Device	Date/Time
Hanson, Chris IDP: 741257	24.5.1977 Male	M555 ID: NY-st-01	14.4.2020 Time: 17:40
Hanson, Chris IDP: 741257	24.5.1977 Male	M555 ID: NY-st-01	14.4.2020 Time: 17:03
Doe, Jane IDP: FN321144454	3.12.1990 Female	M555 ID: NY-st-01	3.4.2020 Time: 14:40

The Trash icon switches to this: 
The contents of Trash are displayed.

NOTE

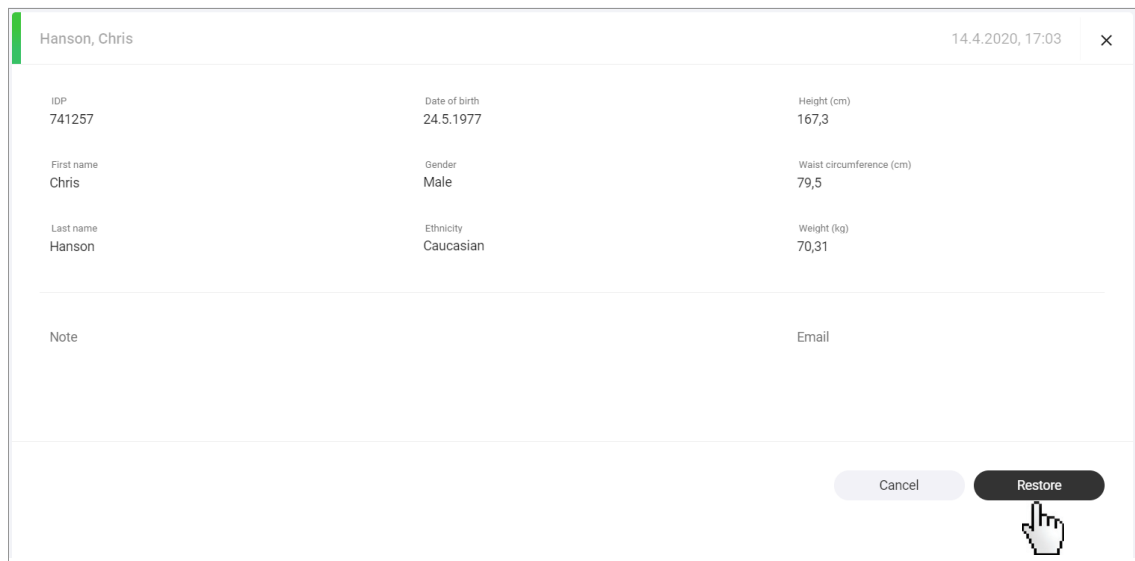
The status filter and the search field filter are also used in Trash.

- Click the dropdown arrow for the desired measurement to open the associated data record.




The data record is displayed.

- Click **Restore**.



You will see a message asking whether you are sure you want to restore the measurement.

- Click **Yes** to restore the measurement.
The measurement is removed from the current view.
The measurement is added to the list of all measurements.
- Click  to return to **Measurements** view.

NOTE

The filters used in Trash remain active (→ [Resetting all filters](#)).

6.4 Viewing analyses

- [Calling up an analysis for a measurement](#)
- [Opening/closing full-screen view](#)
- [Showing/hiding additional information](#)
- [Switching between Single measurement view and Trend view](#)
- [Selecting an analysis module](#)
- [Using the time filter](#)
- [Switching between measurements](#)

The **seca analytics 125** software determines from a measurement a series of analysis parameters which are displayed in graphical form in tiles. One analysis parameter is displayed per tile.

Calling up an analysis for a measurement

NOTE

The data for a measurement must be complete for the analysis (→ [Filling in data fields](#)). Only measurements in green have an analysis.

1. Click **Measurements**.

The list of all measurements is displayed.

NOTE

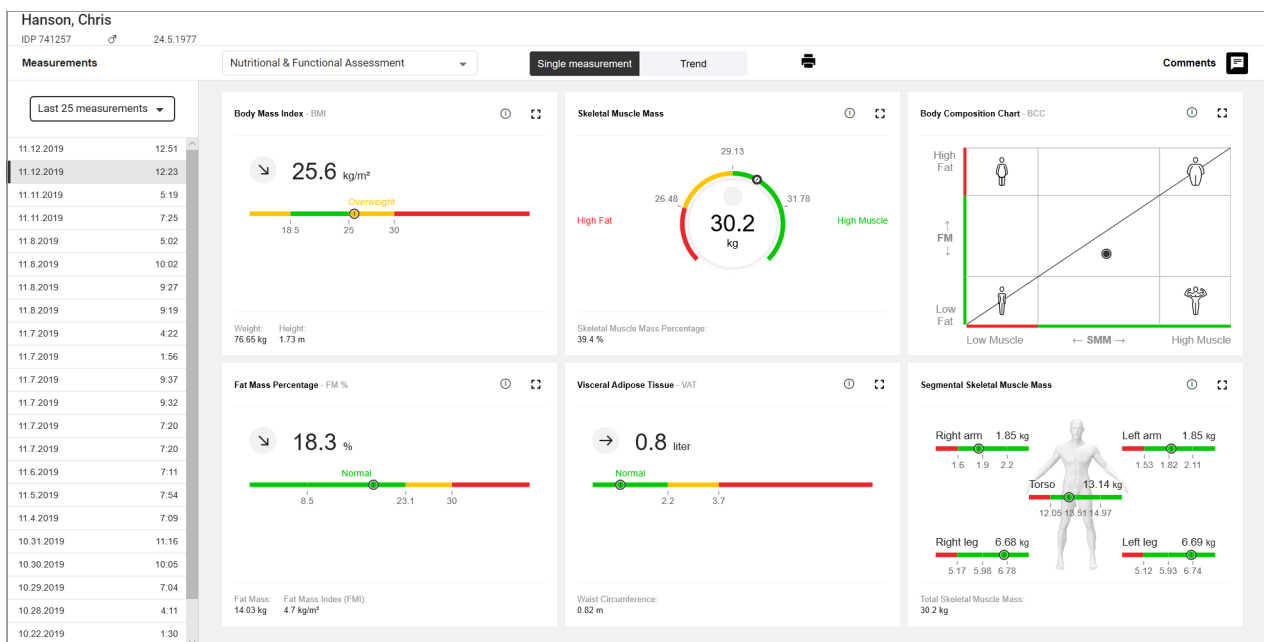
- You can filter the list so that only measurements for which an analysis is available are displayed: → [Filtering measurements by status](#)
- You can search for a measurement if it is not displayed: → [Using the search function](#)

2. Click the desired measurement.

Hanson, Chris IDP: 741257	24.5.1977 Male	M555 ID: NY-st-01	14.4.2020 Time: 17:03	
------------------------------	-------------------	----------------------	--------------------------	--



The **Single measurement** view is displayed.

The analysis parameters from the **Nutritional & Functional Assessment** analysis module are displayed (default setting).




Opening/closing full-screen view

Each analysis parameter is displayed in its own tile. You can view a full-screen version of each tile.

1. Click the  icon in the desired tile. Full-screen view opens.
2. Click the  icon in full-screen view. Full-screen view closes.

Showing/hiding additional information

Explanatory additional information is available for some analysis parameters.

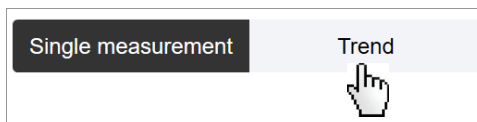
1. Click the  icon in the desired tile. The additional information is shown.

- Click the ⓘ icon again.
The additional information is hidden.

Switching between Single measurement view and Trend view

If there are several measurements for one patient, you can view a trend of analysis results as well as the analysis of an individual measurement.

- Click **Trend** on the toggle button.



The analysis parameters for several measurements are displayed in the form of a trend.

- Click **Single measurement** on the toggle button.



The analysis parameters for an individual measurement are displayed.

Selecting an analysis module

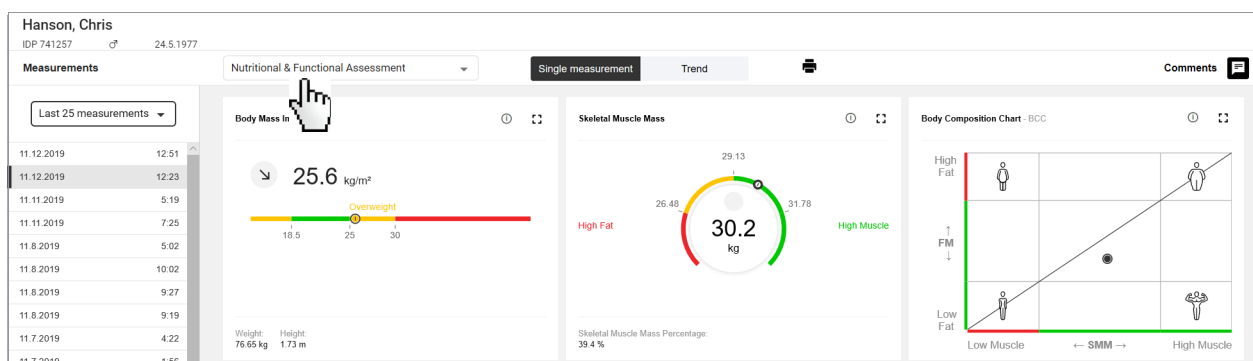
An analysis module contains the display of certain analysis parameters. You can select from different analysis modules.

NOTE

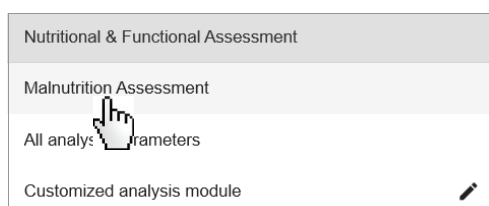
You will find a summary of the analysis modules and analysis parameters here: → [Analysis parameters](#) / → [Analysis modules](#)

To select an analysis module, proceed as follows:

- Click the **Analysis modules** dropdown menu.



- Select the desired option.



The analysis parameters for the selected analysis module are displayed.

NOTE

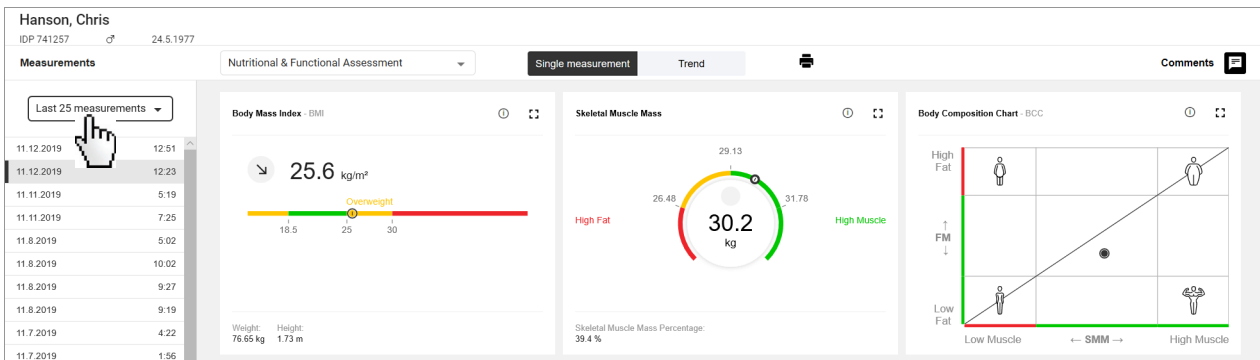
The **Customized analysis module** can be configured by the user: → [Configuring a customized analysis module](#)

Using the time filter

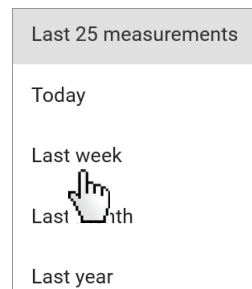
If there are several measurements for one patient, a list of the available measurements for the patient is displayed in **Analysis** view.

You can use the **Time filter** dropdown menu to select the period from which a patient's measurements are to be displayed.

1. Click the **Time filter** dropdown menu.



2. Select the desired option.



The measurements performed in the selected period are displayed with date and time in the **Time filter** dropdown menu.

NOTE

The default display is a maximum of 25 measurements.

- ▶ To load more measurements, click **Load older measurements** or **Load newer measurements**.

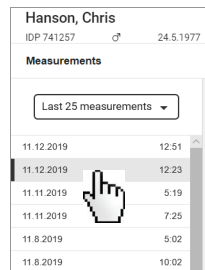
Switching between measurements

If there are several measurements for one patient, a list of available measurements for the patient is displayed in **Analysis** view. The measurements displayed are based on the time filter set (→ [Using the time filter](#)).

Proceed as follows if you want to switch to the analysis of a specific measurement:

- ▶ Click the desired entry in the list.

The analysis parameters for the desired measurement are shown in graphical form.



NOTE

If you are in **Trend** view, the selected individual measurement is highlighted in the graphical representation of all measurements, and the measured value and the difference between that and the previous measured value are displayed.

6.5 Using the comment function

→ [Showing/hiding the comment column](#)

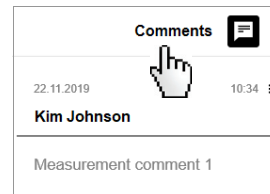
→ [Adding a comment](#)

→ [Deleting a comment](#)


Showing/hiding the comment column

Proceed as follows to show or hide the comment column:

- ▶ Click **Comments** .



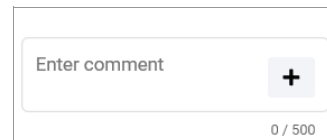
NOTE

If the comment column is hidden, the number of comments about a measurement is shown in the icon: .

Adding a comment

Proceed as follows to add a comment on the selected measurement:

1. Ensure that the comment column is showing (→ [Showing/hiding the comment column](#)).
2. Click in the **Enter comment** field.



3. Enter the comment.


NOTE

The maximum number of characters for a comment is 500. A counter indicates how many characters have already been entered.

4. Click  .
The comment is saved and displayed in the list of comments.

Deleting a comment

Proceed as follows to delete a comment on the selected measurement:

1. Ensure that the comment column is showing (→ [Showing/hiding the comment column](#)).
2. On the comment you would like to delete, click .
3. Click **Delete**.
You will see a message asking whether you are sure you want to delete the comment.
4. Click **Yes** to delete the comment.
The comment is deleted.

6.6 Configuring a customized analysis module

- [Selecting analysis parameters](#)
- [Changing tile sequence](#)
- [Modifying tile size](#)

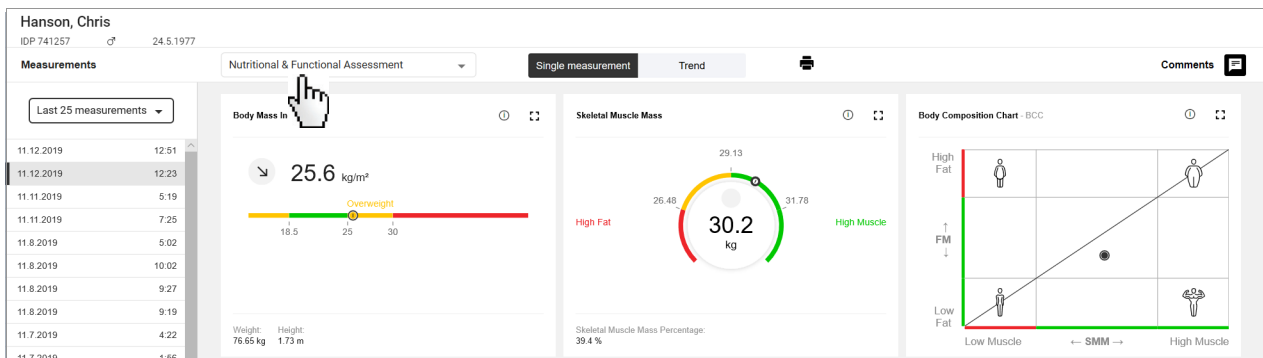
You can use the customized analysis module to compile an individual analysis which contains only the desired analysis parameters. In addition, you can modify the sequence and size of the tiles for the analysis parameters.

NOTE

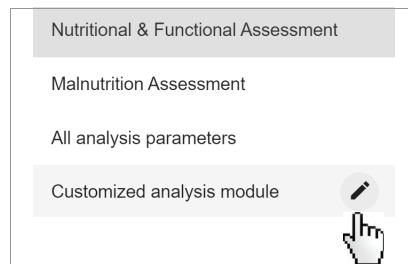
Any changes affect only the customized analysis module.

Selecting analysis parameters

1. Click the **Analysis modules** dropdown menu.



2. Click .



The configuration menu for the **Customized analysis module** is displayed.

3. Click the tab for the view in which you wish to select analysis parameters.

4. Activate the checkbox of an analysis parameter.
The analysis parameter is displayed in the analysis module.
5. Deactivate the checkbox of an analysis parameter.
The analysis parameter is not displayed in the analysis module.

NOTE

- All checkboxes can be activated or deactivated simultaneously using the **Select all** checkbox.
- A green deactivated checkbox indicates that the associated parameter is activated in the other view. This makes it easier to select pairs of analysis parameters.

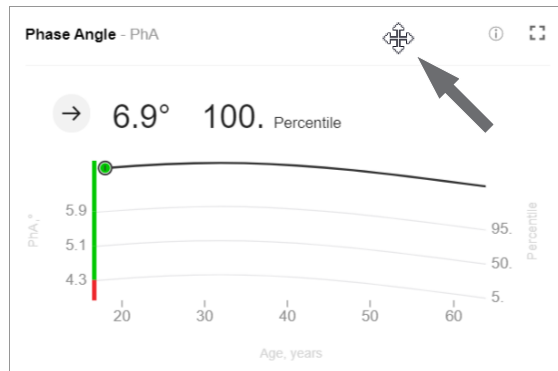
6. Click **Save**.
The configured **Customized analysis module** is displayed.
You have the following options for continuing:

- → [Changing tile sequence](#)
- → [Modifying tile size](#)

Changing tile sequence

Proceed as follows to change tile sequence:

1. Position the mouse pointer in the tile you want to move.
The mouse pointer is displayed differently.

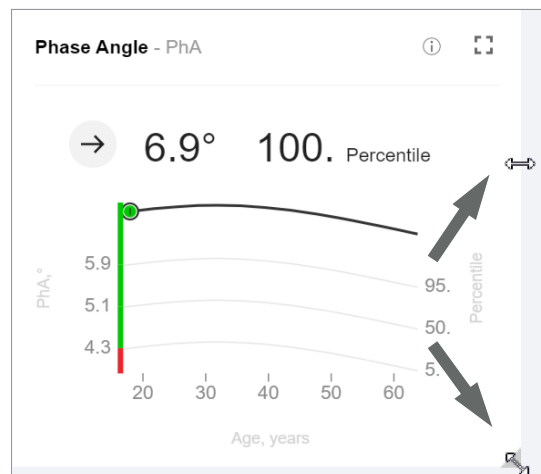


3. Drag the tile to its desired location.
4. Release the mouse key.
The tile remains in its new location.

Modifying tile size

Proceed as follows to modify tile width and height:

1. Position the mouse pointer on one side or edge of the tile.
The mouse pointer is displayed differently and displays the potential directions of movement.




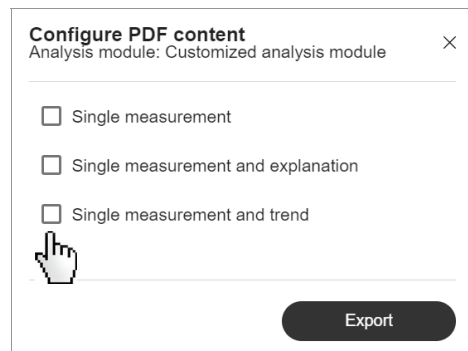
2. Keep the primary (left) mouse key depressed and drag the tile to the desired size.
3. Release the mouse key.
Tile size has been modified.

6.7 Exporting analyses in the form of a PDF

You can export analyses in the form of a PDF. The following options are available:

- **Single measurement**
- **Single measurement and explanation**
- **Single measurement and trend**

1. Call up the desired measurement (→ [Calling up an analysis for a measurement](#)).
2. Select the desired analysis module (→ [Selecting an analysis module](#)).
3. Click .
The **Configure PDF content** dialog is displayed.
4. Select the desired option.



5. Click **Export**.
6. Save the file by following the instructions in your browser.

NOTE

A maximum of 25 measurements are used for Trend view, even if more measurements were loaded in the current view (→ [Using the time filter](#)).

NOTE

It is possible to set up your own company logo for PDF file exports. The company logo can only be set up by the administrator (→ [Selecting a company logo for PDF file export](#)).

7. ADMINISTRATOR FUNCTIONS


- [Managing users](#)
- [Exporting data](#)
- [Switching system for units of measurement](#)
- [Deleting patient data](#)
- [Selecting a company logo for PDF file export](#)

The functions described in this section can only be used by users with administrator rights.

7.1 Managing users

- [Calling up the list of users](#)
- [Adding a new user](#)
- [Editing user data](#)
- [Deactivating/activating a user](#)

Calling up the list of users

1. Click  to open the main menu.
2. Click **Administration**.
The submenu opens.
3. Click **User management**.
The user list is displayed.

User name	First name	Last name	Email	Roles	Edit	Activate/deactivate
BlakeM	Blake	Miller	Blake.Miller@hospital-NY.com	Administrator	<input type="button" value="Edit"/>	<input type="button" value="Deactivate"/>
DrKimJ	Kim	Johnson	Kim.JohnsonDr@hospital-NY.com	Administrator, User	<input type="button" value="Edit"/>	<input type="button" value="Deactivate"/>
AlexR	Alex	Rodgers	Alex.Rodgers@hospital-NY.com	User	<input type="button" value="Edit"/>	<input type="button" value="Deactivate"/>

Adding a new user

1. → [Calling up the list of users](#)
2. Click **Add new user**.
The **Add new user** dialog is displayed.

Add new user

First name *

Last name *

User name *

Email *

Role *

User Administrator

3. Fill in all the mandatory fields (fields with an asterisk).

NOTE

- ▶ The user name cannot be changed subsequently. Select the user name in compliance with the specifications of your institution.
- ▶ Ensure that the e-mail address entered is valid.

NOTICE!**Data access by unauthorized persons**

If you have the **User** role, you can see patients' measured data. Patient data must be accessible only to staff for whose work this data is essential.

- ▶ Ensure that the user obtains only the necessary entitlements.

4. Select one role (or several roles) for the user.
5. Click **Save**.
The new user is added. An activation link is sent to the e-mail address given.

Editing user data

1. → [Calling up the list of users](#)
2. In the line for the desired user, click **Edit**.
The **Edit user "[name]"** dialog is displayed.

Edit user "BlakeM"

First name *
Blake

Last name *
Miller

Email *
Blake.Miller@hospital-NY.com

Role *
 User Administrator

NOTICE!**Data access by unauthorized persons**

If you have the **User** role, you can see patients' measured data. Patient data must be accessible only to staff for whose work this data is essential.

- ▶ Ensure that the user obtains only the necessary entitlements.

3. Modify the data as desired.
4. Click **Save**.
The data have been modified.

Deactivating/activating a user

1. → [Calling up the list of users](#)
2. In the line for the desired user, click **Deactivate**.
The **Deactivate user** dialog is displayed.

Deactivate user

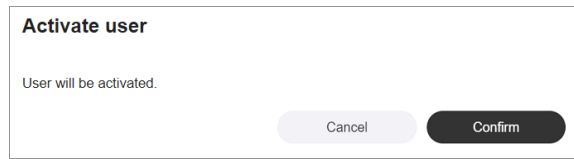
User will be deactivated.

3. Click **Confirm**.
The user is deactivated.
The button in the list has switched to **Activate**.

NOTE

You can only deactivate users, not delete them.

4. In order to reactivate a deactivated user, click the **Activate** button. The **Activate user** dialog is displayed.

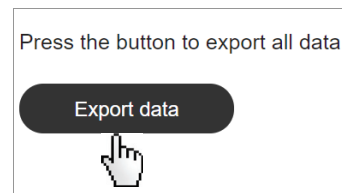


5. Click **Confirm**.
The user is reactivated.
The button in the list has switched to **Deactivate**.

7.2 Exporting data

Proceed as follows to export all measured data in the form of a file (.csv):

1. Click  to open the main menu.
2. Click **Administration**.
The submenu opens.
3. Click **Data export**.
The **Data export** dialog is displayed.
4. Click **Export data**.



5. Save the file by following the instructions in your browser.
The data of the file can be processed by a spreadsheet program, for example.

7.3 Switching system for units of measurement



CAUTION! Patient hazard

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

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

NOTE


Changes to the system for units of measurement affect all users of the **seca analytics 125** software in your institution. The changes take effect at the latest following logout and subsequent login.

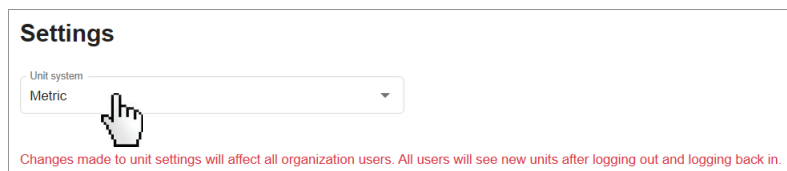
- ▶ Make sure that the system for units of measurement is to be changed for all users in your institution.
- ▶ Inform users about the change to the system for units of measurement.

You can switch between the following systems for units of measurement:

- Metric (meters, kilograms)
- Imperial (feet, pounds) (not recommended)

Proceed as follows to switch the system for units of measurement:

1. Click  to open the main menu.
2. Click **Administration**.
The submenu opens.
3. Click **Settings**.
The **Settings** dialog is displayed.
4. Click the **Unit system** dropdown menu.



5. Select the desired option.
The system for units of measurement has been switched.

7.4 Deleting patient data


You can delete all the data for a patient, including all the associated measurements. The data are deleted in compliance with the General Data Protection Regulation (GDPR).

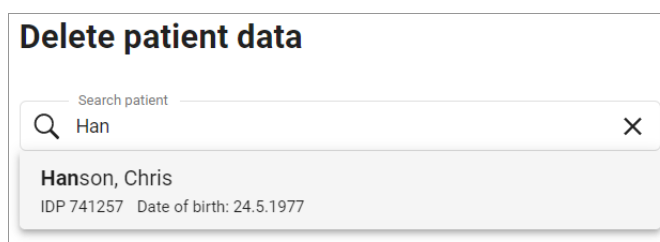
NOTICE!

Data loss

It is not possible to restore deleted data.

- ▶ First check whether the data can be permanently deleted.

1. Click  to open the main menu.
2. Click **Administration**.
The submenu opens.
3. Click **Delete patient data**.
The **Delete patient data** dialog is displayed.
4. Enter the patient name or the IDP (at least three characters) in the **Search patient** input field.
Search results are displayed in the dropdown field.



5. Click the desired entry.

Delete patient data

Search patient

Han

Hanson, Chris
IDP 741257 Date of birth: 24.5.1977

The patient data are displayed.

6. Click **Delete patient data**.

Search patient

Hanson, Chris 741257

Hanson, Chris
IDP: 741257
Date of birth: 24.5.1977

Delete patient data

You will see a message asking whether you are sure you want to delete the data.

Delete patient data of "Hanson, Chris"

Are you sure you want to delete all patient data? The following will be permanently deleted:

- Patient personal information
- All measurements of patient

Type "Hanson, Chris" to confirm

Cancel Confirm deletion of patient data

7. Enter the patient's name.

Delete patient data of "Hanson, Chris"

Are you sure you want to delete all patient data? The following will be permanently deleted:

- Patient personal information
- All measurements of patient

Type "Hanson, Chris" to confirm
Hanson, Chris

Cancel Confirm deletion of patient data

8. Click **Confirm deletion of patient data** to delete the data.

Delete patient data of "Hanson, Chris"

Are you sure you want to delete all patient data? The following will be permanently deleted:

- Patient personal information
- All measurements of patient

Type "Hanson, Chris" to confirm

Cancel
Confirm deletion of patient data

The data are permanently deleted.

NOTICE!

Data access by unauthorized persons

To delete information in compliance with GDPR, all patient records must be deleted.

- ▶ You must also delete data stored locally, such as analyses saved as PDFs.


7.5 Selecting a company logo for PDF file export

→ [Uploading a company logo](#)

→ [Deleting a company logo](#)

Analyses can be exported in the form of a PDF file (→ [Exporting analyses in the form of a PDF](#)). You can add your company logo to the PDF template.

Uploading a company logo

1. Click  to open the main menu.
2. Click **Administration**.
The submenu opens.
3. Click **Select PDF logo**.
The **Select PDF logo** dialog is displayed.
4. Select the desired image file (.png) using one of the following methods:
 - ▶ "Drag & drop" the file into the marked area
 - ▶ Select the file via **Select file**.

Drop files here

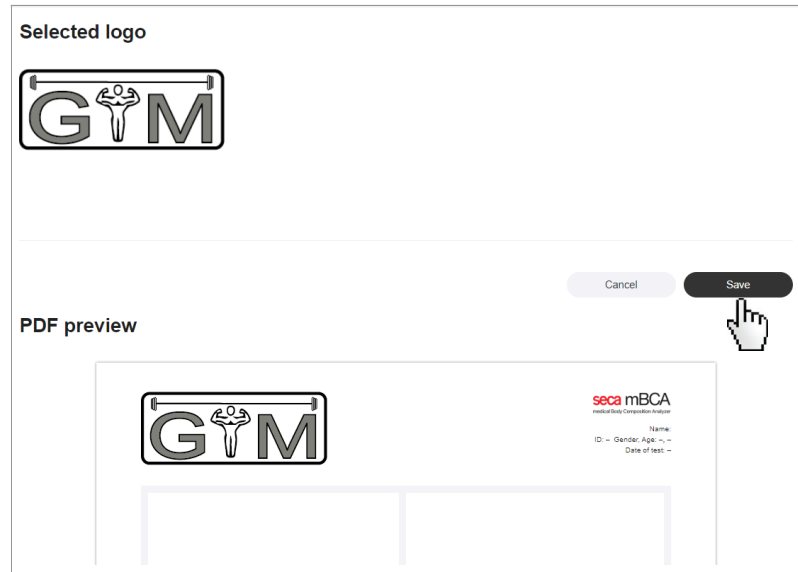
or

Select file

Allowed file extensions: PNG
Recommended aspect ratio up to 34:9

The selected logo and a PDF preview are displayed.

5. Click **Save**.

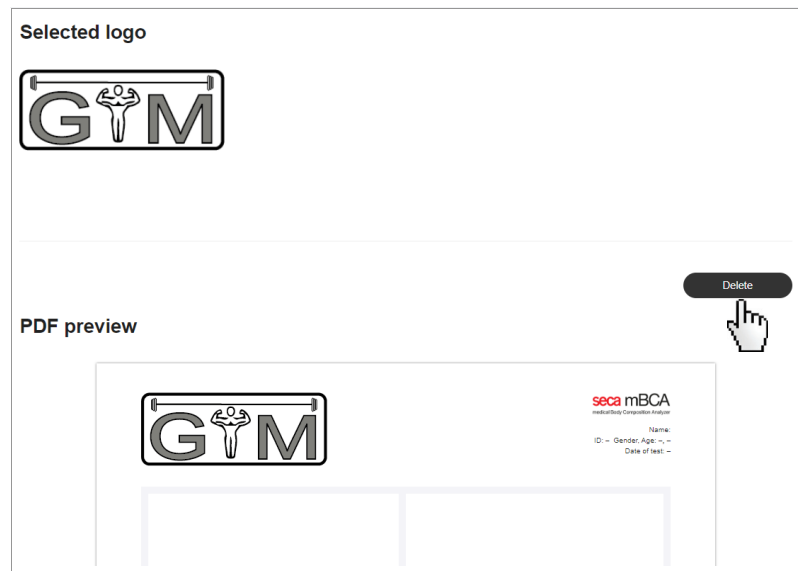


The company logo appears in every exported PDF file from now on.

Deleting a company logo

To delete a company logo, proceed as follows:

1. Click  to open the main menu.
2. Click **Administration**.
The submenu opens.
3. Click **Select PDF logo**.
The **Select PDF logo** dialog is displayed.
The selected company logo is displayed.
4. Click **Delete**.



The company logo is deleted. You have the following option for continuing:

→ [Uploading a company logo](#)

8. TROUBLESHOOTING

NOTE

- The context-sensitive red texts in the software contain hints on eliminating problems.
- If you are unable to eliminate the problem with the aid of the table below, contact your administrator or hospital technician.

Fault	Cause	Remedy
Error message in the browser: Unable to load pages of the seca analytics 125 software	Web address of home page incorrect	Enter web address again and ensure that there are no typos
	Interfering data in the browser cache	Clear cache and delete cookies
	Browser not up to date	Update browser
	Interfering apps or programs	Restart computer
	Not enough memory available on your device	<ul style="list-style-type: none"> • Close other apps, tabs and programs • Remove unnecessary plugins
	Network connection fault	<ul style="list-style-type: none"> • Wait a few minutes and refresh the page • Check network connection • Inform network administrator • Inform network provider
	Server fault	Inform seca Service
seca analytics 125 software behaving implausibly	Browser not up to date	Update browser
	Interfering apps or programs	Restart computer
	Browser plugins interfering with software functions	Deactivate browser plugins for the seca analytics 125 software (secacloud.com)
	Interfering data in the browser cache	Clear cache and delete cookies
	Not enough memory available on your device	<ul style="list-style-type: none"> • Close other apps, tabs and programs • Remove unnecessary plugins
	Malware on your computer	Check computer for malware
Unable to find measurement	View not updated	→ Loading new measurements
	View restricted by filter	<ul style="list-style-type: none"> • Measurements view: → Resetting all filters • Analysis view: → Using the time filter
	Browser plugins preventing measurements from loading	Deactivate browser plugins for the seca analytics 125 software (secacloud.com)
	Error in data transmission	<ul style="list-style-type: none"> • Check network connection • Repeat measurement and note error messages and Workflow LED on the seca measuring device • Follow the instructions for use for the seca measuring device • Note the System instructions for use seca 103/452
Measurement is displayed with red marking	Error saving measurement	Save measurement later
Measured values deviate significantly from expected results	Incorrect assignment of a measurement to the patient	<ul style="list-style-type: none"> • Check whether an incorrect measurement has been assigned to the patient • Repeat measurement if it is not possible to assign the correct measurement unambiguously
	Error in the measurement procedure	<ul style="list-style-type: none"> • Repeat measurement • Follow the instructions for use for the seca measuring device
No e-mails received (e.g. following password change)	e-mail marked as spam	<ul style="list-style-type: none"> • Check spam folder • → E-mail receipt

Fault	Cause	Remedy
Date format not as desired	Date format is determined by browser	Set date format in browser
Login window requests you to input "External tenant ID"	Web address incomplete	<ul style="list-style-type: none"> • Use a personal link (favorite, bookmark, desktop link) • Request ID from administrator

9. TECHNICAL DATA

- [General technical data](#)
- [Analysis parameters](#)
- [Analysis modules](#)
- [Display of weight and height values](#)

9.1 General technical data

General technical data	
Medical device in accordance with (EU) ordinance 2017/745	Class IIa
Medical software (EN 62304)	Class B

9.2 Analysis parameters

- [Summary](#)
- [Limit values and color symbols](#)

At seca, the parameters required to determine body composition are called analysis parameters.

The analysis parameters are grouped into analysis modules. This allows certain aspects of body composition to be assessed specifically.

Summary

The table shows a summary of all the analysis parameters which can be displayed in the **seca analytics 125** software. The table also shows which analysis module contains the analysis parameters and in which view they are displayed.

● View: **Single measurement** □ View: **Trend** – Not included

Analysis parameter	Display in Single measurement view	Analysis modules	
		Nutritional & Functional Assessment	Malnutrition Assessment
Body Mass Index (BMI)	<ul style="list-style-type: none"> • Absolute value in kg/m² • Identified as Underweight, Normal Weight, Overweight or Obesity • Additional information: <ul style="list-style-type: none"> - Weight, absolute value in kg - Height, absolute value in cm 	●	●
Weight	<ul style="list-style-type: none"> • Absolute value in kg • Identified as Underweight, Normal Weight, Overweight or Obesity • Additional information: <ul style="list-style-type: none"> - Body Mass Index, absolute value in kg/m² 	□	□
Fat Mass (FM)	Absolute value in kg	□	□

Analysis parameter	Display in Single measurement view	Analysis modules	
		Nutritional & Functional Assessment	Malnutrition Assessment
Fat Mass Index (FMI)	<ul style="list-style-type: none"> • Absolute value in kg/m² • Identified as Low, Normal, Increased or High • Additional information: <ul style="list-style-type: none"> - Fat Mass, absolute value in kg - Fat Mass Percentage, relative value in % 	-	-
Fat Mass Percentage (FM%)	<ul style="list-style-type: none"> • Relative value in % • Identified as Low, Normal, Increased or High • Additional information: <ul style="list-style-type: none"> - Fat Mass, absolute value in kg - Fat Mass Index, absolute value in kg/m² 	●	●
Visceral Adipose Tissue (VAT)	<ul style="list-style-type: none"> • Absolute value in l • Identified as Low, Normal, Increased or High • Additional information: <ul style="list-style-type: none"> - Waist Circumference, absolute value in cm 	● □	-
Waist Circumference (WC)	<ul style="list-style-type: none"> • Absolute value in cm • Identified as Normal or High • Additional information: <ul style="list-style-type: none"> - Visceral Adipose Tissue, absolute value in l 	-	-
Skeletal Muscle Index by MRI (SMI)^a	<ul style="list-style-type: none"> • Absolute value in kg/m² • Identified as Low or Normal • Additional information: <ul style="list-style-type: none"> - Skeletal Muscle Mass, absolute value in kg 	-	-
Fat-Free Mass Index (FFMI)	<ul style="list-style-type: none"> • Absolute value in kg/m² • Identified as Low or Normal • Additional information: <ul style="list-style-type: none"> - Fat-Free Mass, absolute value in kg and relative value in % 	-	● □
Appendicular Skeletal Muscle Index by DXA (ASMI)^b	<ul style="list-style-type: none"> • Absolute value in kg/m² • Identified as Low or Normal • Additional information: <ul style="list-style-type: none"> - Skeletal Muscle Mass, absolute value in kg and relative value in % 	-	-
Segmental Skeletal Muscle Mass	<ul style="list-style-type: none"> • Absolute value in kg for all extremities and the torso • Additional information: <ul style="list-style-type: none"> - Absolute total value in kg 	● □	-
Skeletal Muscle Mass	<ul style="list-style-type: none"> • Absolute value in kg • Identified as High Fat or High Muscle • Additional information: <ul style="list-style-type: none"> - Relative value in % 	● □	□
Skeletal Muscle over Age (SMM)	<ul style="list-style-type: none"> • Absolute value in kg • Percentile 	-	●
Phase Angle (PhA)	<ul style="list-style-type: none"> • Absolute value of angle in degrees • Percentile 	-	● □
Body Composition Chart (BCC)	<ul style="list-style-type: none"> • Fat Mass and Segmental Skeletal Muscle Mass, absolute values in kg • Displayed as a coordinate system • Identified as High Fat, Low Fat, High Muscle, Low Muscle 	● □	● □
Water	<ul style="list-style-type: none"> • Absolute value in l • Additional information: <ul style="list-style-type: none"> - ECW^c and TBW^d, relative values in % 	-	-

Analysis parameter	Display in Single measurement view	Analysis modules	
		Nutritional & Functional Assessment	Malnutrition Assessment
Water Ratio (ECW/TBW)^{cd}	<ul style="list-style-type: none"> Relative value in % Identified as Low, Normal or High Additional information: <ul style="list-style-type: none"> - ECW^c and TBW^d, absolute values in l and relative values in % 	-	-

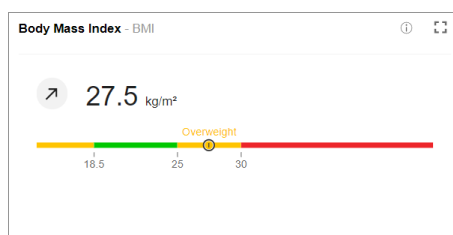
- a. MRI: Magnetic Resonance Imaging
b. DXA: Dual-energy X-ray absorptiometry
c. ECW: Extracellular Water
d. TBW: Total Body Water

NOTE

- The **All analysis parameters** analysis module contains all the analysis parameters listed in the table.
- The **Customized analysis module** contains the analysis parameters from the table selected by the user.
- Analysis parameters can be displayed in imperial units instead of metric units (not recommended).

Limit values and color symbols

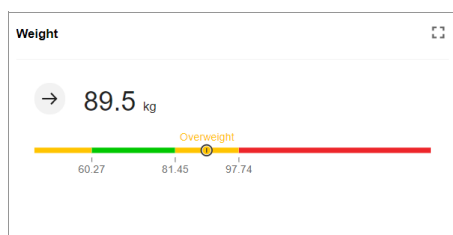
The WHO-defined limit values are used to show BMI limit values. Other normal ranges have been recorded in clinical trials (for details, go to www.seca.com). Below you will find information about limit values and the meaning of the color scale for each analysis parameter.



Body Mass Index (BMI)

Colored section (From left to right)	Meaning	Limit values
Yellow	Underweight	< 18.5 kg/m ²
Green	Normal weight	18.5 – 25 kg/m ²
Yellow	Overweight	25 – 30 kg/m ²
Red	Obesity	> 30 kg/m ²

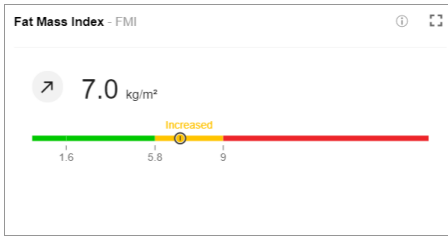
BMI = weight/height²; WHO BMI limit values and reference ranges



Weight

Colored section (From left to right)	Meaning	Limit values
Yellow	Underweight	BMI values 18.5 kg/m ² , 25 kg/m ² and 30 kg/m ² multiplied by the patient's height squared
Green	Normal weight	
Yellow	Overweight	
Red	Obesity	

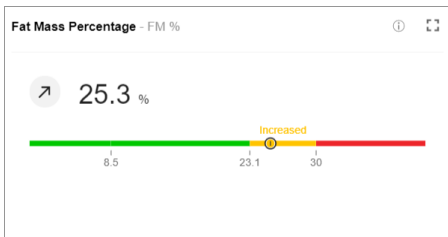
Individual limit values, in analogy to WHO BMI reference ranges



Fat Mass Index (FMI)

Colored section (From left to right)	Meaning	Limit values
Green	Low fat mass	Limit values adapted for gender, ethnicity and age, linked to the BMI values 18.5 kg/m ² , 25 kg/m ² and 30 kg/m ²
Green	Normal fat mass	
Yellow	Increased fat mass	
Red	High fat mass	

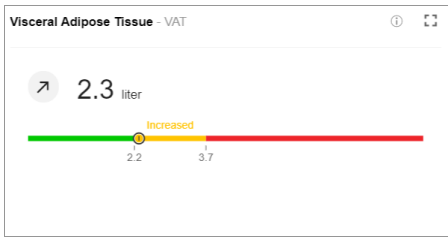
FMI = fat mass/height²; individual limit values, in analogy to WHO BMI reference ranges; the basis is the fat mass of a healthy reference population



Fat Mass Percentage (FM%)

Colored section (From left to right)	Meaning	Limit values
Green	Low fat mass	Limit values adapted for gender, ethnicity and age, linked to the BMI values 18.5 kg/m ² , 25 kg/m ² and 30 kg/m ²
Green	Normal fat mass	
Yellow	Increased fat mass	
Red	High fat mass	

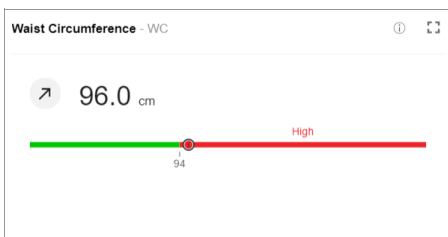
FM% = fat mass/weight; individual limit values, in analogy to WHO BMI reference ranges; the basis is the fat mass of a healthy reference population



Visceral Adipose Tissue (VAT)

Colored section (From left to right)	Meaning	Limit values
Green	Normal visceral adipose tissue	Limit values adapted for gender, ethnicity and age, linked to the BMI values 25 kg/m ² and 30 kg/m ²
Yellow	Increased visceral adipose tissue	
Red	High visceral adipose tissue	

Individual limit values, in analogy to WHO BMI reference ranges; the basis is the visceral adipose tissue of a healthy reference population

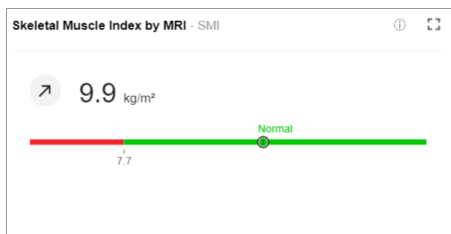


Waist Circumference (WC)

Colored section (From left to right)	Meaning	Limit values
Green	Normal waist circumference	Limit value adapted for gender and ethnicity from the literature
Red	High waist circumference	

Limit value and reference ranges from the International Diabetes Federation (IDF)

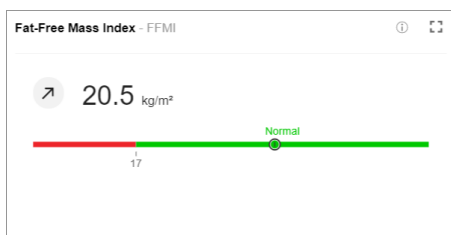
Alberti, George, Paul Zimmet, Jonathan Shaw, and Scott M. Grundy. "IDF Worldwide Definition of the Metabolic Syndrome." Accessed January 8, 2015.



Skeletal Muscle Index by MRI (SMI)

Colored section (From left to right)	Meaning	Limit values
Red	Low SMI	Limit value adapted for gender and ethnicity; 5th percentile of reference population
Green	Normal SMI	

SMI = skeletal muscle mass/height²; limit value is the 5th percentile; the basis is the skeletal muscle mass of a healthy reference population



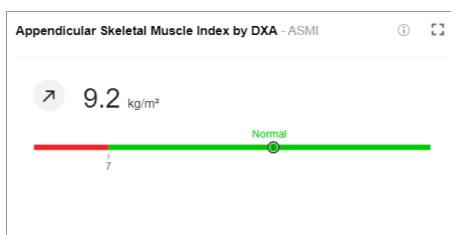
Fat-Free Mass Index (FFMI)

Colored section (From left to right)	Meaning	Limit values
Red	Low FFMI	Limit value adapted for gender from the literature
Green	Normal FFMI	

FFMI = fat-free mass/height²; limit values and reference ranges from the Global Leadership Initiative on Malnutrition (GLIM) and the European Society of Clinical Nutrition and Metabolism (ESPEN)

Cederholm et al., "Diagnostic criteria for malnutrition – An ESPEN Consensus Statement." *Clinical Nutrition* 34(3), (2015): 335S-340S.

Cederholm et al., "GLIM criteria for the diagnosis of malnutrition – A consensus report from the global clinical nutrition community." *Clinical Nutrition* 38(1), (2019): 1S-9S.



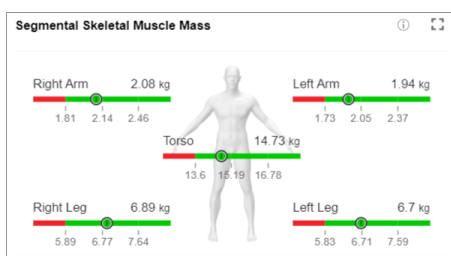
Appendicular Skeletal Muscle Index by DXA (ASMI)

Colored section (From left to right)	Meaning	Limit values
Red	Low ASMI	Limit value adapted for gender from the literature
Green	Normal ASMI	

ASMI = appendicular skeletal muscle mass/height² (Skeletal Muscle Mass by DXA is equivalent to lean soft tissue); limit values and reference ranges from the Global Leadership Initiative on Malnutrition (GLIM) and the Asian Working Group for Sarcopenia (AWGS)

Chen et al., "Sarcopenia in Asia: consensus report of the Asian Working Group for Sarcopenia." *J Am Med Dir Assoc.* 15(2), (2014): 95S-101S.

Cederholm et al., "GLIM criteria for the diagnosis of malnutrition – A consensus report from the global clinical nutrition community." *Clinical Nutrition* 38(1), (2019): 1S-9S.

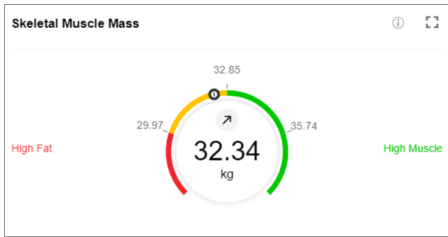


Segmental Skeletal Muscle Mass

Colored section (From left to right)	Meaning	Limit values
Red	Low segmental skeletal muscle mass	Limit values adapted for gender, ethnicity, BMI and age; 5th, 50th and 95th percentile of reference population
Green	Low/normal segmental skeletal muscle mass	
Green	High/normal segmental skeletal muscle mass	
Green	High segmental skeletal muscle mass	

Individual limit values of the 5th, 50th and 95th percentile; the basis is the skeletal muscle mass of a healthy reference population

17-10-01-267-002a_05-2020S

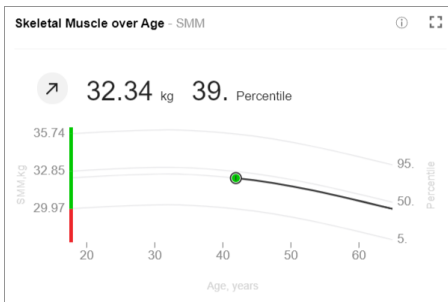


Skeletal Muscle Mass

Colored section (From left to right)	Meaning	Limit values
Red	Low skeletal muscle mass	Limit values adapted for gender, ethnicity, BMI and age; 5th, 50th and 95th percentile of reference population
Yellow	Low/normal skeletal muscle mass	
Green	High/normal skeletal muscle mass	
Green	High skeletal muscle mass	

Individual limit values of the 5th, 50th and 95th percentile; the basis is the skeletal muscle mass of a healthy reference population

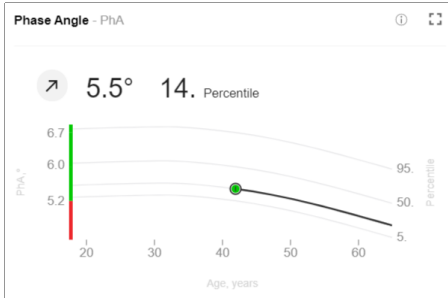
Skeletal Muscle over Age (SMM)



Colored section (From bottom to top)	Meaning	Limit values
Red	Low skeletal muscle mass	Limit values adapted for gender, ethnicity, BMI and age; 5th, 50th and 95th percentile of reference population
Green	Low/normal skeletal muscle mass	
Green	High/normal skeletal muscle mass	
Green	High skeletal muscle mass	

Individual limit values of the 5th, 50th and 95th percentile; the basis is the skeletal muscle mass of a healthy reference population

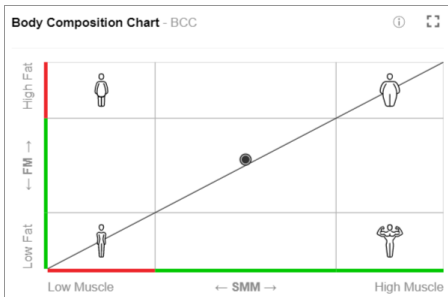
Phase Angle (PhA)



Colored section (From bottom to top)	Meaning	Limit values
Red	Low phase angle	Limit values adapted for gender, ethnicity, height and age; 5th, 50th and 95th percentile of reference population
Green	Low/normal phase angle	
Green	High/normal phase angle	
Green	High phase angle	

Individual limit values of the 5th, 50th and 95th percentile; the basis is the phase angle of a healthy reference population

Body Composition Chart (BCC)



Colored section (From bottom to top)	Meaning	Limit values
Green	Low fat mass	Limit values adapted for gender, ethnicity and age; 5th and 95th percentile of reference population
Green	Normal fat mass	
Red	High fat mass	

Colored section (From left to right)	Meaning	Limit values
Red	Low skeletal muscle mass	Limit values adapted for gender, ethnicity and age; 5th and 95th percentile of reference population
Green	Normal skeletal muscle mass	
Green	High skeletal muscle mass	

17-10-01-267-002a_05-2020S

Individual limit values (not labeled) of the 5th and 95th percentile; the basis are the skeletal muscle mass and fat mass of a healthy reference population

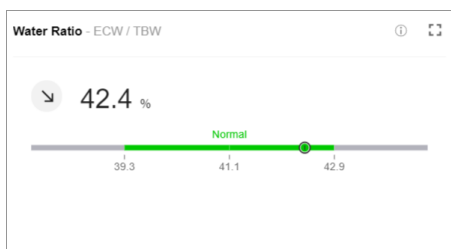
Water



Colored section (From left to right)	Meaning	Limit values
Gray	Below-average TBW/ECW	Limit values adapted for gender, ethnicity, BMI and age; 5th, 50th and 95th percentile of reference population
Green	Average TBW/ECW	
Green	Average TBW/ECW	
Gray	Above-average TBW/ECW	

Individual limit values of the 5th, 50th and 95th percentile; the basis are the total body water (TBW) and extracellular water (ECW) of a healthy reference population

Water Ratio (ECW/TBW)



Colored section (From left to right)	Meaning	Limit values
Gray	Below-average TBW/ECW	Limit values adapted for gender, ethnicity, BMI and age; 5th, 50th and 95th percentile of reference population
Green	Average TBW/ECW	
Green	Average TBW/ECW	
Gray	Above-average TBW/ECW	

Individual limit values of the 5th, 50th and 95th percentile; the basis is the ratio of total body water (TBW) to extracellular water (ECW) of a healthy reference population

9.3 Analysis modules

Analysis modules provide the option of viewing only those analysis parameters relevant to a specific objective.

The analysis modules described below are preset in the **seca analytics 125** software.

Nutritional & Functional Assessment

This analysis module is for recording comprehensive data about the nutrition and exercise status of your patients.

Malnutrition Assessment

This analysis module is for recording comprehensive data about the nutrition status of your patients in the context of poor nutrition.

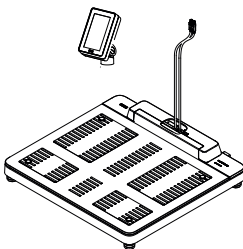
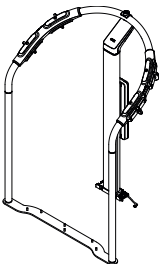


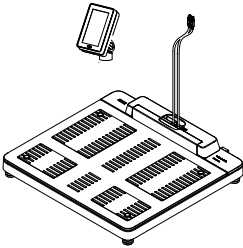
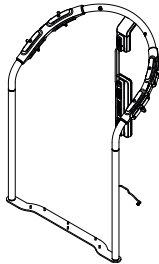
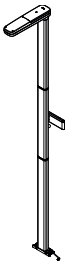


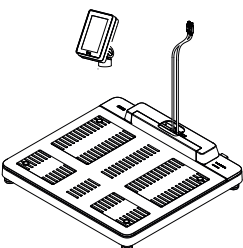
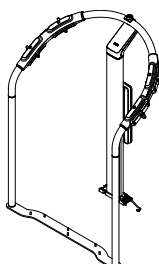


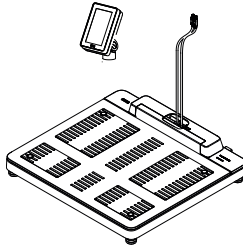
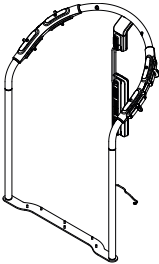
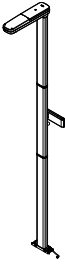


9.4 Display of weight and height values

The **seca analytics 125** software only displays weight and height values it receives in the unit set in the software. If the setting on the transmitting device is different, the values will be converted automatically. Details are in the following table:

Setting in the seca analytics 125 software	seca device setting	seca analytics 125 display	Example
Metric (kg)	kg	kkk.gg	102.55 kg
	lbs		
	-	kkk.gg ^a	102.55 kg
Imperial (lbs)	kg	ppp.p	226.08 lbs
	lbs		
	-	ppp.p ^a	226.08 lbs
Metric (cm)	cm	cm.mm	180.5 cm
	ft'in"		
	-	cm.mm ^a	180.5 cm
Imperial (ft)	cm	ft.in	5.9 ft
	ft'in"		
	-	ft.in ^a	5.9 ft

- a. Manual entry of measured values directly in the **seca analytics 125** software. If additional decimal places are entered, the value is rounded automatically.

10. COMPATIBLE SECA PRODUCTS

Scale	Handrail	Measuring rod	Configuration software	Analysis software
seca Medical, housing color: white				
 <p>seca mBCA 555/554 555 7021 099 554 1321 009</p>	 <p>seca mBCA 550 550 0010 009</p>	-	 <p>seca connect 103 from Version 2.0</p>	 <p>seca analytics 125</p>
 <p>seca mBCA 555/554 555 7021 099 554 1321 009</p>	 <p>seca mBCA 550 550 0000 009</p>	 <p>seca 257 257 1714 009</p>	 <p>seca connect 103 from Version 2.0</p>	 <p>seca analytics 125</p>
seca Fitness, housing color: black/anthracite				
 <p>seca mBCA 552 552 1333 009</p>	 <p>seca mBCA 549 549 0133 009</p>	-	 <p>seca connect 103 from Version 2.0</p>	 <p>seca analytics 125</p>
 <p>seca mBCA 552 552 1333 009</p>	 <p>seca mBCA 549 549 0033 009</p>	 <p>seca 256 256 1733 009</p>	 <p>seca connect 103 from Version 2.0</p>	 <p>seca analytics 125</p>

11. WARRANTY

Please note that this software is subject to warranty restrictions which may arise in conjunction with the license, for example. The warranty restrictions can be called up at www.seca.com or via the software ("Conditions of use").

12. DECLARATION OF CONFORMITY



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

Medical Measuring Systems and Scales since 1840

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