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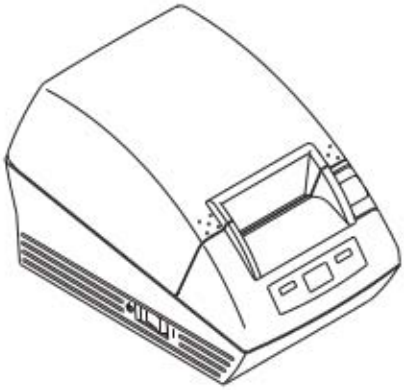
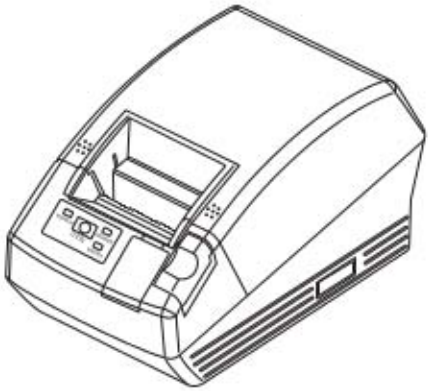
seca 465
seca 466





CONTENTS

1. DESCRIPTION OF DEVICE

1.1 Congratulations!

By purchasing the **seca 465** or **seca 466** seca wireless printer, you have acquired an extremely accurate and robust device.

For more than 170 years, seca has devoted its experience to healthcare and, as the market leader in many countries, is constantly setting new standards with its innovative weighing and measurement developments.

1.2 Intended purpose

The **seca 465** and **seca 466** printers are mainly used in hospitals, doctors' surgeries and inpatient care facilities in accordance with national regulations. They are for printing out measurement results determined by **seca 360° wireless** weighing and height measuring systems.

The **seca 360° wireless** systems transmit measuring results wirelessly to the printers.

The **seca 465** printer is for creating paper printouts.

The **seca 466** printer is for creating paper printouts and labels. It is equipped with an automatic paper cutter.

The **seca Print Designer Software** supplied allows measurement results to be printed out adapted to suit local regulations and your own requirements.

2. SAFETY INFORMATION

2.1 Basic safety precautions

Handling the printer

- Please take note of the information in this user manual.
- Keep the user manual in a safe place.
- Make sure that the printer is positioned securely on a flat, non-vibrating surface.
- Do not drop the printer. Protect the printer from violent impacts.
- If you wish to transport the printer, ensure that there is no paper roll in the paper compartment.
- Have servicing performed regularly (see "Maintenance" on page 73).
- Only have servicing and repairs carried out by authorized persons.
- Make sure HF equipment (e.g. mobile phones and televisions) is kept at a minimum distance of approx. 1 metre to prevent incorrect measurements or interference with wireless transmission.

Handling measurement results once printed out

- Before using printed measurement results ensure that the value printed out is plausible and matches the display on the measuring device.
- For data protection purposes and to prevent confusion, assign printed measurement results to the right patient file immediately after the measurement.
- Thermal printouts are sensitive to both temperature and light. Keep thermal printouts away from heat and direct sunlight to prevent the information fading rapidly. For filing, we recommend that you make a copy of the printout using a laser copier.

2.2 Safety information in this user manual

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.

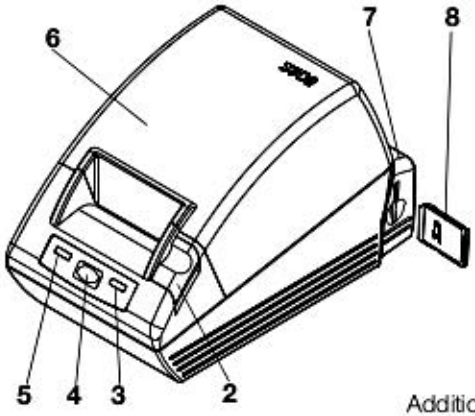
CAUTION!
Used to identify a hazardous situation. If you fail to take note of this information, minor to moderate injuries may result.

ATTENTION!
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 measurement results may be incorrect.

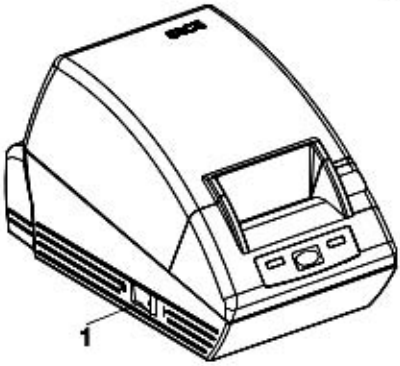
NOTE
Includes additional information about use of the device.

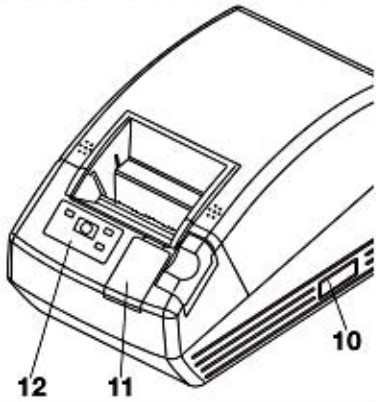
3. OVERVIEW

3.1 Controls



Additional controls on the **seca 466**:

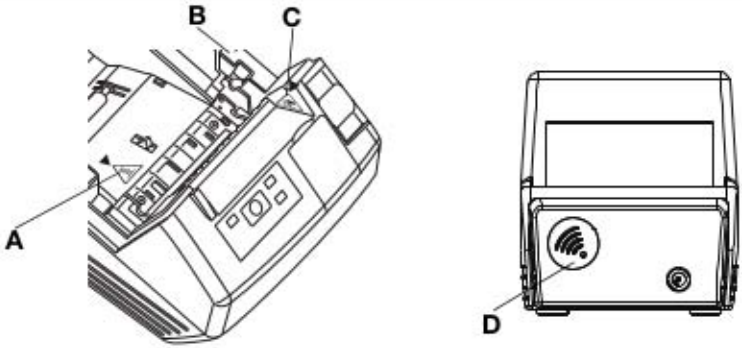




No.	Control	Function
1	On/Off switch	For switching the printer on and off.
2	Key for **Paper compartment cover**	For opening the cover of the paper compartment.
3	**Error** LED	Flashes at different rates depending on the fault which has occurred (see "Troubleshooting" on page 70)
4	**Feed** key	For manual paper feed: • press briefly: feed one line • keep depressed: continuous feed until the key is released
5	**Power** LED	Comes on when the printer is switched on.

No.	Control	Function
6	Paper compartment cover	Opened to put in a paper roll and to adjust the paper sensor.
7	Wireless module with SD card reader	For wireless communication with **seca 360° wireless** weighing and measuring systems.
8	SD card	Contains default settings for printing out measuring results and **seca Print Designer Software** for customizing printouts.
9	Power connection	For connecting the power supply unit.
10	Adjusting wheels, **paper sensor** (**seca 466**)	For adjusting the paper sensors to suit the type of paper used.
11	Adjusting wheel, **paper cutter** (**seca 466**)	For resetting the paper cutter.
12	**Paper** LED (**seca 466**)	Comes on when only a little paper, or none at all, is left in the printer.

3.2 Symbols on the device



	Symbol	Meaning
A		Hot surfaces: the print head is very hot immediately after printing.
B		Location for paper roll
C		**seca 466**: sharp edges

	Symbol	Meaning
D		Device is equipped with a wireless module. Data are received and transmitted wirelessly.

3.3 Information on rating plate

Text/symbol	Meaning
Model	Model number
Type	Type designation
Ser. No.	Serial number
FCC ID	For USA: device licensing number issued by US FCC (Federal Communications Commission) authority
IC	For Canada: device licensing number issued by the Industry Canada authority
	Device complies with EC standards and directives.
	Symbol of the FCC (USA)
	Symbol of the "Underwriters Laboratories" product safety institution.
	Symbol of the Voluntary Control Council for Interference (Japan)
	Operate the device with direct current only, note the polarity of the device plug
	Do not dispose of device in household waste

4. BEFORE YOU GET STARTED ...

WARNING!
Electric shock, fire, smoke, overheating, malfunctions
Do not operate or store the printer in the following conditions:

- naked flames
- high ambient humidity
- direct sunlight
- hot air flows, radiated heat
- ambient air containing salt, corrosive gases
- inadequate ventilation
- chemical reactions
- oil mist, steel particles or dust
- static electricity, strong magnetic fields

WARNING!
Electric shock, fire, smoke, overheating, malfunctions

- Do not use metallic, sharp-edged or pointed objects to operate the keys of the device.
- In the event of the device being damaged, do not attempt to repair the printer. Contact seca customer service.
- Do not attempt to dismantle or modify the printer.

WARNING!
Electric shock, fire, malfunctions
Do not place any objects on the printer. Do not allow any objects or liquids to get into the printer.

- If objects or liquids do get into the printer, switch the printer off immediately and disconnect the power supply plug.
- Contact seca customer service.

WARNING!
Electric shock, suffocation, cuts
Operate and store the printer out of the reach of children.
- Do not allow children to open the device.
- Route the power supply unit and power supply cable out of the reach of children.
- Dispose of the plastic wrapping for the device immediately after unpacking.

CAUTION!
Fire, injuries, damage to device
Set up the printer so that it is adequately ventilated.
- Set up the printer an adequate distance from walls and other devices.
- Do not cover the printer with blankets or cloths.

CAUTION!
Cuts, crushing
- Do not touch any of the moving parts of the printer such as the paper cutter, gear wheels or active electrical parts during the printing process.
- Open and close the paper compartment cover carefully.

ATTENTION!
Device damage, paper jam, poor print quality
- Ensure that the paper roll is inserted correctly.
- Use only the paper available from seca.
- Use only undamaged paper rolls.
- Do not stick the ends of paper together, with adhesive tape for example.
- Do not pull on paper which has already been inserted once the paper compartment lid is closed.

4.1 Scope of supply

- Printer and wireless module
- Power supply unit
- SD memory card (in card reader of wireless module)
- **seca Print Designer Software** configuration

program (included on SD memory card)

- USB memory card reader
- Instruction manual
- **seca 465**:
  - thermal paper, one roll
- **seca 466**:
  - labels, one roll
  - thermal paper, one roll

4.2 Connecting the power supply

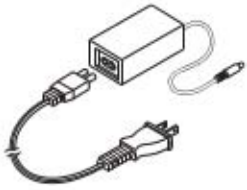
WARNING!
Personal injury and damage to device if incorrect power supply unit is used
The voltage supplied by standard power supply units may be higher than their indicated rating. This may cause the device to overheat, catch fire, melt or short-circuit.

- Use only the power supply unit supplied or a genuine seca replacement part of the same type.

WARNING!
Electric shock, fire, malfunctions
Note the following points when handling power supply units and power cables.

- Ensure that your hands are dry when you plug in or unplug the power supply plug.
- Operate the printer only at the quoted power supply voltage and frequency.
- Ensure that the power supply socket to which the printer is connected has an adequate rating.
- Do not use a multiple socket or adapter plug to which other devices are also connected to supply power.
- Clean dust and other deposits off the power supply plug before connecting it to the power supply socket.
- Do not use deformed or damaged power supply cables.
- Do not move the printer when it is switched on.
- Do not place any objects on the power supply cable. Set up the printer so that people do not step on the power supply cable.

- Ensure that the power supply cable is not bent, twisted or subjected to tension when the printer is in use or being transported.
- Do not try to modify the power supply cable.
- Do not route the power supply cable close to heaters.
- Ensure that the power supply socket used is always freely accessible.
- Disconnect the power supply plug from the power supply socket if you do not intend using the device for an extended period.
- Always hold the power supply cable by the plug when you take it out of the power supply socket.



1. Ensure that the On/Off switch of the device is set to "Off".
2. Plug the power supply cable into the power supply unit.
3. Plug the cable for the power supply unit into the connecting socket on the printer.
4. Plug the power supply cable into a power supply socket.

4.3 Set up seca 465

Adjust paper sensor

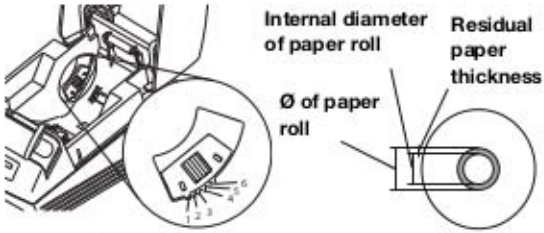
The paper sensor enables the device to detect when the paper roll is coming to an end. For this feature to function reliably, the paper sensor must be set to suit the type of paper roll in use.

NOTE

- The printer is preset for a paper roll diameter (∅ paper roll) of 22 mm. You do not need to perform the steps in this section for the thermal paper available from seca (see "Accessories" on page 75).
- The paper sensor works only with thermal paper. This function is not available for labels.

1. Ensure that the device is switched off.
2. Open the paper compartment cover.
3. Adjust the lever to the correct position as shown in the table below.

Position	∅ of paper roll
1	22 mm
2	24 mm
3	27 mm
4	No function
5	No function
6	No function



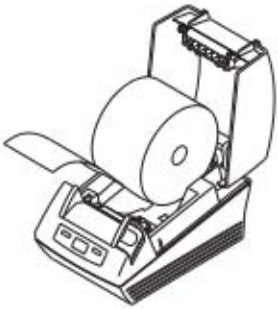
NOTE

"∅ of paper roll" is derived from the internal diameter of the roll and the thickness of the residual paper. The residual paper can be recognized by its pink colour.

4. Close the paper compartment cover.

Insert paper roll

Proceed as outlined below to insert paper in the printer.



CAUTION!
Burns and cuts

- Do not touch the print head. This is very hot immediately after printing.
- Do not touch the paper cutter.
- Do not hold the paper by the edges. These too can cause cuts.

1. Open the paper compartment cover.
2. Insert the paper roll.

NOTE

Ensure that the paper roll is correctly aligned. See adjacent illustration.

3. Close the paper compartment cover until you hear it engage.

   The device is operational.

4.4 Set up seca 466

Adjust paper sensor

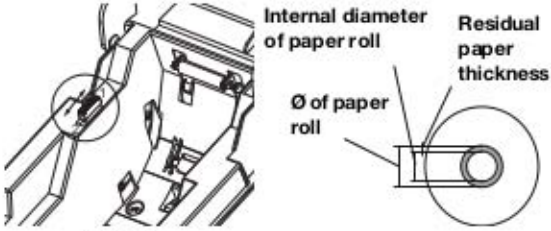
The paper sensor enables the device to detect when the paper roll is coming to an end. For this feature to function reliably, the paper sensor must be set to suit the type of paper roll in use.

NOTE

- The printer is preset for a paper roll diameter (∅ paper roll) of 22 mm. You do not need to perform the steps in this section for the thermal paper available from seca.
- The paper sensor works only with thermal paper. This function is not available for labels.

1. Ensure that the device is switched off.
2. Open the paper compartment cover.
3. Adjust the lever to the correct position as shown in the table below.

Position	∅ of paper roll
1	22 mm
2	34 mm



NOTE

"∅ of paper roll" is derived from the internal diameter of the roll and the thickness of the residual paper. The residual paper can be recognized by its pink colour.

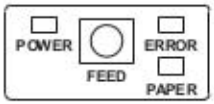
4. Close the paper compartment cover.

Set paper type

For paper feed and paper detection to work correctly, you need to set the type of paper in use.

1. Ensure that the device is switched off.
2. Open the paper compartment cover.
3. Ensure that there is no paper in the paper compartment.

4. Keep the **Feed** key depressed and switch on the device.
   The **Power** LED flashes.
5. Release the **Feed** key.
6. Close the paper compartment cover.
   The **Paper** LED comes on.
   The type of paper currently set is displayed by the **Power** LED and the **Error** LED.



Type of paper	Power LED	Error LED
Labels	On	Off
Thermal paper	Off	On
Black Mark paper	On	On

7. Press the **Feed** key until the **Power** and **Error** LEDs display the type of paper in use.
8. Open and close the paper compartment cover.
   The set paper type is now stored.

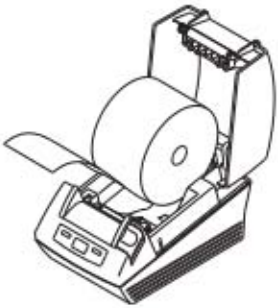
NOTE
As no paper has yet been inserted, the **Power**, **Error** and **Paper** LEDs ("Paper" error message) come on. As soon as you have inserted paper, only the **Power** LED is on. The device is then operational.

Insert paper roll

Proceed as outlined below to insert paper in the printer.

1. Ensure that the device is switched off.

CAUTION!
Burns and cuts
- Do not touch the print head. This is very hot immediately after printing.
- Do not touch the paper cutter.
- Do not hold the paper by the edges. These too can cause cuts.



2. Open the paper compartment cover.
3. Insert the paper roll.

NOTE
Ensure that the paper roll is correctly aligned. See adjacent illustration.

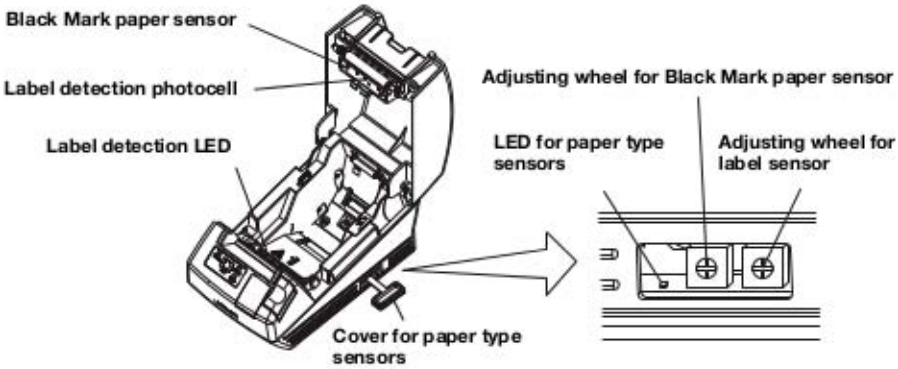
4. Close the paper compartment cover until you hear it engage.
   The device is operational.

Adjust sensors for labels and Black Mark paper

The **seca 466** printer has separate sensors for labels or Black Mark paper to control the paper feed and paper cutter.

NOTE
The printer is preset to the labels available from seca. You need only carry out the procedure described here if you want to use different labels or Black Mark paper.

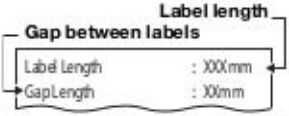
You must set the sensor to suit the type of paper in use.



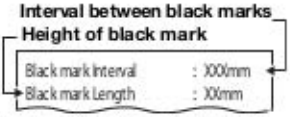
1. Ensure that the device is switched off.
2. Open the paper compartment cover.
3. Switch the device on.
4. Keep the **Feed** key depressed and close the paper compartment cover.
   The **Error** LED flashes.
5. Open the paper compartment cover.
6. Insert the desired paper (see "Insert paper roll" on page 54).
   - Insert labels so that with the paper compartment cover closed, a label is positioned between the **Label detection** LED and the **Label detection** photocell.
   - Insert Black Mark paper so that the black mark of the paper does not cover the **Black Mark paper** sensor with the paper compartment cover closed.
7. Close the paper compartment cover.
8. Open the cover for the paper type sensors.

9. Turn the relevant sensor adjusting wheel for the paper in use clockwise until the **Paper type sensors** LED goes out.
10. Slowly turn the sensor adjusting wheel anticlockwise until the **Paper type sensors** LED comes on.
    The sensor is set correctly.

    NOTE
    If you turn the sensor adjusting wheel too far clockwise, the **Paper type sensors** LED starts flashing. In this case, slowly turn the sensor adjusting wheel back until the **Paper type sensors** LED comes back on.
11. Close the cover for the paper type sensors.
12. For reference purposes, you can now measure the labels or the Black Mark paper. To do so, press the **Feed** key.
    The measurement results are printed out.



Example for label measurement



Example for Black Mark paper measurement

5. OPERATION

5.1 Operate the printer in a wireless network

Introduction

This device is equipped with a wireless module. The wireless module allows measurement results determined using **seca 360° wireless** weighing and height measuring devices to be received wirelessly.

Details on setting up a **seca 360° wireless** network can be found in the instruction manuals for scales and height measuring systems.

SD card

An SD card reader is integrated in the wireless module of the printer. The SD card supplied with the printer is already inserted in the SD card reader at the factory. The SD card contains factory settings for printing out measurement results and evaluations (see "Restore factory settings (reset)" on page 67). The printer is pre-configured to be operational.

seca Print Designer Software is likewise on the SD card. This software allows measurement results to be printed out adapted to suit local regulations and your own requirements (see "Use configuration program" on page 59).

Integrate the printer in a wireless network

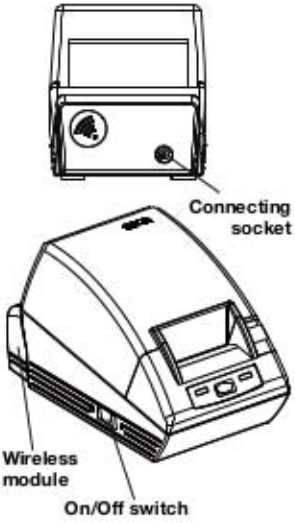
While setting up a wireless network (see the instruction manual for the **seca 360° wireless** measuring device in use) you will be asked to switch on all the **seca 360° wireless** components for integration in a wireless group.

ATTENTION!

Loss of wireless connection to other components

If the components of an existing wireless group stay switched off during the integration process, their wireless connection to the **seca 360° wireless** measuring device will be lost.

- If a wireless group already exists, ensure that both the printer and all the components in the existing wireless group are switched on during the integration process.



The wireless module for the printer is not switched on using the On/Off switch for the printer. The wireless module is permanently supplied with power by the power supply unit for the printer.

For the printer to be detected correctly in the wireless network, both the printer itself and the wireless module must be de-energized briefly. Proceed as follows.

1. Ensure that the On/Off switch of the printer is set to "Off".
2. Disconnect the device plug from the printer's power supply connection socket.
   The printer and the wireless module are de-energized.
3. Start setting up the wireless network as described in the instruction manual for your **seca 360° wireless** measuring device.
4. When the instruction manual for your **seca 360° wireless** measuring device requests you to switch on all the components of the wireless group, proceed as follows.
   - If a wireless group already exists, switch on its components.
   - Plug the device plug into the printer's power supply connection socket.
   - Switch on the printer at the On/Off switch.

   The printer performs a self-test and prints out a test page with the current settings.
5. Continue setting up the wireless network as described in the instruction manual for your **seca 360° wireless** measuring device.


Application
$ProjectRevision: 1.19 $
Veryfing file checksums
Finished
Reading Master-Image-file
Downloading images to printer
Finished
Reading-Master-File
Finished
Reading BMI-File
Finished
Reading Master-Table-File
Finished
Printer ready

Set date and time

Date and time cannot be set directly on the printer.

Date and time are set on a **seca 360° wireless** measuring device and transmitted wirelessly to the printer. The prerequisite is that the printer and the **seca 360° wireless** measuring device are logged on to the same wireless group.

For details on setting date and time, see the instruction manual for the **seca 360° wireless** measuring device in question.

5.2 Use configuration program

The **seca Print Designer Software** allows measurement results to be printed out adapted to suit local regulations and your own requirements.

> **NOTE**
> The printer is pre-configured to be operational. You need only use this software if you do not wish to use the factory settings (see "Restore factory settings (reset)" on page 67).

You have the following setting options:

- select references for evaluating measurement results
- use your own logo
- select layout files to control the content and appearance of printouts

seca Print Designer Software is on the SD card of the printer. In order to be able to use the software, you must connect the SD card to your PC as a removable disk and install the software.

Should your PC not have a suitable card reader, use the USB memory card reader supplied.

> **NOTE**
> **seca Print Designer Software** requires Microsoft® .NET Framework 3.5. This software is included on the SD card supplied. Framework is already installed on many PCs, in which case you do not need to install it again. If you are unsure whether you need to install Framework, or whether an older version of Framework is installed on your computer, contact your administrator.

Install configuration program

1. Plug the USB memory card reader supplied into a free USB port on your PC.
2. Take the SD card out of the printer's card reader.
3. Plug the SD card into the USB memory card reader.
   The USB memory card is displayed as a removable disk.

4. Select the removable disk.
5. In the "seca" directory, double-click on the file "setup.exe".
6. Follow the on-screen instructions.

Start configuration program

You have two options for starting the configuration program.

- Double-click on the **seca Print Designer Software** icon on the Desktop.
- Select Start\Programs**seca Print Designer Software**.

The program starts in both cases.

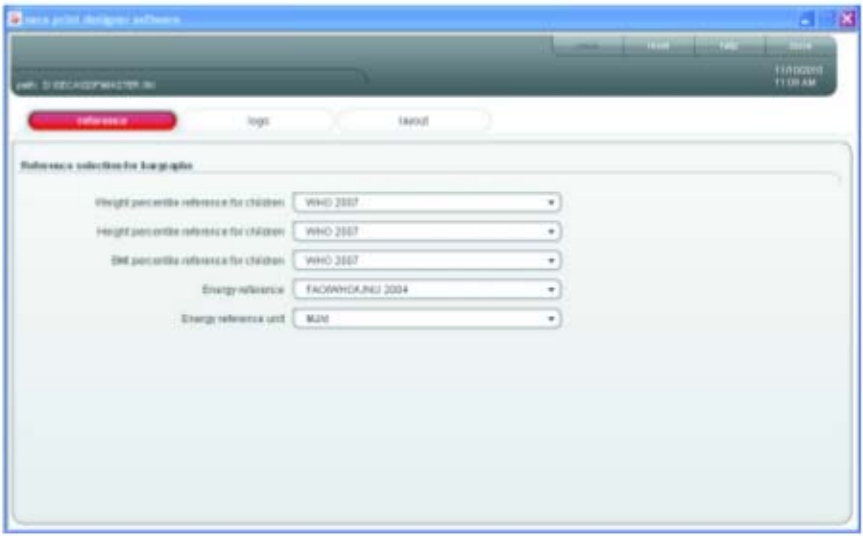
The **seca sdf master.ini** file opens.

Select References (references)

Depending on the composition of the wireless network you have set up, measurement results may be organized under the following headings and shown in the form of graphs in the printout:

- weight percentile for children
- height percentile for children
- BMI percentile for children
- energy
- energy unit

You can select references for the percentiles (e.g. WHO, CDC, ...) and specify the energy unit (e.g. MJ/d).



1. Select the **references** tab.
   The current settings are displayed.
2. Click on the pull-down menu for the reference you want to change.
   All the selection options are displayed.
3. Click on the reference you want to use.
   The pull-down menu closes.
4. Repeat steps 2. and 3. for all the references you want to change.
5. Click on **save**.
   The settings are saved.

Select your own logo (logo)

You can put your own logo, e.g. that of your institution, on the printout. We recommend using black-and-white logos with a resolution of 384 x 288 pixels. Colour or high-resolution logos are converted on opening and filed on the SD card.

NOTE

The quality of colour logos is not always satisfactory once they have been imported. In this case, use an image processing program to convert the logo to a black-and-white image and import it again.

1. Select the **logo** tab.
2. Click on **open**.
   The Windows selection window opens.
3. Select the desired logo.
   The selected logo is displayed in the preview window.

4. If you wish to edit the logo, click on **edit**.
   The Windows "Paint" program opens.
5. If you do not wish to use the logo, click on **clear**.
   The logo is no longer displayed in the preview window.
6. Click on **save**.
   The settings are saved.

Select layout file (layout)

Layout files (e.g. "XXXLAB01.TXT") contain information to enable the printer to control the content and appearance of the printout.

The following points are relevant for selection of the correct layout file:

- measurement results and evaluations for display
- **seca 360° wireless** measuring devices in use
- printer used
- paper used

Layout files are furthermore used to specify the following country-specific settings

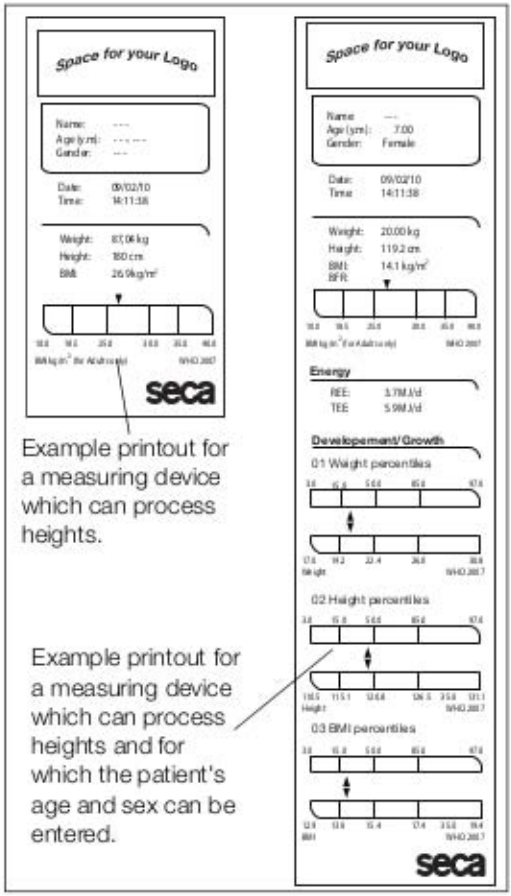
  - Language
  - Time
  - Date
  - Delimiter

The first two letters in the filename show you for which country/language a layout file is intended (example: "US_LAB01.TXT" is for the USA/for US English).

The printouts shown in the table below can be produced depending on the measuring devices and printer used.

Printout	Measuring device	Printer	Paper	Layout file
• Weight • Height • BMI	• **seca 360° wireless** scale and • **seca 360° wireless** height measuring device	**seca 466**	Label	XXXLAB01.TXT
• Height	• **seca 360° wireless** height measuring device	**seca 466**	Label	XXXLAB01.TXT
• Weight	• **seca 360° wireless** scale	**seca 465** **seca 466**	Thermal paper	XXXPAP02.TXT XXXPAP01.TXT
• Height	• **seca 360° wireless** height measuring device	**seca 465** **seca 466**	Thermal paper	XXXPAP02.TXT XXXPAP01.TXT
• Weight • Height • BMI in the form of a graph	• **seca 360° wireless** scale with BMI function • **seca 360° wireless** measuring station	**seca 465** **seca 466**	Thermal paper	XXXPAP02.TXT XXXPAP01.TXT
• Weight • Height • BMI in the form of a graph • Percentiles in the form of a graph • Energy values	• **seca 360° wireless** measuring station	**seca 465** **seca 466**	Thermal paper	XXXPAP02.TXT XXXPAP01.TXT

Below you will see example printouts for the layout file "US_PAP02.TXT" when different measuring devices are used.



The country-specific settings for the layout file selected are displayed in the **layout** tab. The data which can be shown in the printout are displayed together with printer and paper types in the **Comment** text field.

Proceed as follows to select a layout file.

1. Select the **layout** tab.
   The settings for the current layout file are displayed.
2. Click on the pull-down menu **Layout file** line.
   All the available layout files are displayed.
3. Click on the desired layout file.
   The pull-down menu closes.
   The settings for the layout file are displayed.

4. Click on **save**.
   The settings are saved.

Restore factory settings (reset)

You can restore factory settings for the functions below.

Function	Factory setting
Logo	None
References Energy unit	WHO MJ/d
Layout file **seca 465** • Country-specific settings - Language - Time - Date - Delimiter • Applications: - paper: - evaluations:	US_PAP02.TXT English hh:mm.ss AM/PM mm.dd.yy . thermal paper BMI, percentiles for children, energy
Layout file **seca 466** • Country-specific settings - Language - Time - Date - Delimiter • Applications: - paper: - evaluations:	US_LAB01.TXT English hh:mm.ss. AM/PM mm.dd.yy . labels None

♦ Click on **reset**.
The program closes.
The program restarts automatically.
Factory settings are restored.

Call up instruction manual in pdf format

You can also call up this instruction manual from the software. You need Acrobat® Reader ® software to do so.

1. Click on **help**.

The **About** window appears.

2. Click on **Documentation** in the **About** window.
The PDF file for the instruction manual opens.

Read in changed configuration on printer


1. Ensure that you have saved all the settings made.
2. Click on **close** or on the cross symbol.
   The program closes.
3. Log off the SD card using the **Safely remove hardware** or **Eject** function, depending on your operating system.
4. Take the SD card out of the PC's memory card reader.
5. Plug the SD card into the memory card reader of the printer.
   The changed settings are loaded.
   The printer is operational with its modified settings after about 1 minute.

Close configuration program


1. Ensure that you have saved all the settings made.
2. Click on **close** or on the cross symbol.
   The program closes.

6. CLEANING

6.1 Clean housing

The housing should be cleaned at regular intervals to suit the usage of the printer

CAUTION!
Burns, cuts

- Do not touch the print head. This is very hot immediately after printing.
- Do not touch the paper cutter.
- Do not hold the paper by the edges. These too can cause cuts.

1. Ensure that the device is switched off.
2. Disconnect the power supply plug from the power supply socket.

ATTENTION!
Damage to device from unsuitable cleaning agents

- Do not use volatile organic solvents such as alcohol, turpentine or benzene.
- Do not use cleaning cloths impregnated with chemicals.

3. Clean the printer housing
   - Clean the housing with a clean, dry cloth.
   - Remove heavy soiling with a slightly moist cloth.
   - Remove paper dust using a soft brush.

6.2 Clean the print head

The print head should be cleaned at the following intervals depending on the paper used:

- thermal paper: once a month
- labels: every 10,000 labels, as adhesive can become deposited on the print head.

CAUTION!
Burns and cuts

- Do not touch the print head. This is very hot immediately after printing.
- Do not touch the paper cutter.
- Do not hold the paper by the edges. These too can cause cuts.

1. Switch off the printer.
2. Open the paper compartment cover.
3. Wait a few minutes for the print head to cool down.
4. Clean the print head using a cotton cloth and a little ethanol.

7. WHAT SHOULD I DO IF ...?

7.1 Troubleshooting

Fault	Cause/Remedy
seca 466: **Paper** LED on	Paper running out - Insert new paper
seca 465: **Error** LED on **seca 466**: **Paper** LED on **Error** LED on	No paper - Insert new paper
Error LED flashes during printing	Paper compartment cover not properly closed - Close paper compartment cover until you hear it engage.
Error LED on when no printing in progress	Paper compartment cover not properly closed - Close paper compartment cover until you hear it engage.
Printing stops **Error** LED flashing	Print head overheated, e.g. text too dense or dark areas being printed - Wait for print head to cool down. Printer automatically resumes printing. **Error** LED goes out.
Power LED flashing	Memory test fault - Contact seca Service
seca 466: **Error** LED flashing 	Paper cutter blocked - Switch off device - Remove paper residues - Switch on device - Press Feed key - If problem persists: see "Reset paper cutter (seca 466)" on page 72
seca 466: **Power** LED off **Error** LED flashing **Paper** LED flashing	If automatic paper cutter is deactivated: printer waiting for printout to be cut off: - use manual cutter to cut off printout.
seca 466: **Error** LED flashing 	Paper type sensors not set correctly - Set paper type sensors: see "Adjust sensors for labels and Black Mark paper" on page 55

Fault	Cause/Remedy
Error LED flashing 	Macro executing - Wait until macro complete.
Error LED flashing 	Power supply too low: • power supply unit defective - Replace power supply unit • printer defective - Do not continue using printer. Use replacement device
Error LED flashing 	Power supply too high: • power supply unit defective - Replace power supply unit • printer defective - Use substitute device
"MSG For Children only" message appears on the printout	• No reference data are available for the patient age entered - Check age entered and correct if necessary
"MSG image not loaded to printer" message appears on the printout	• No logo saved on the SD card - Select a logo and save it on the SD card - see "Select your own logo (logo)" on page 61
Printing does not start.	• It was not possible to transmit measurement results to the printer. - Ensure that the printer is switched on. • Printer not integrated in wireless network. - Switch off the scale or height measuring device - De-energize the printer and its wireless module - Set up the wireless network again. • Nearby HF equipment (e.g. mobile phones) is interfering with reception. - Make sure that HF equipment is kept at least 1 metre away from transmitters and receivers in the seca wireless network.
Incorrect time and date on printout	• Date and time not set - Set date and time using a **seca 360° wireless** scale or height measuring device (see instruction manual for the - **seca 360° wireless** device used). • Internal battery of wireless module exhausted. - Contact seca Service.

Fault	Cause/Remedy
Poor print quality	Print head dirty - Clean print head (see "Reset paper cutter (seca 466)" on page 72)

7.2 Remove paper jam

CAUTION!
Burns and cuts

- Do not touch the print head. This is very hot immediately after printing.
- Do not touch the paper cutter.
- Do not hold the paper by the edges. These too can cause cuts.

1. Switch off the printer.
2. Open the paper compartment cover.

NOTE
If the paper cutter has not returned to its initial position, the paper compartment cover cannot be opened. In this case, retract the paper cutter manually (see "Reset paper cutter (seca 466)" on page 72). Then open the paper compartment cover.

3. Carefully remove jammed paper and paper residues.
4. Insert the paper roll.
5. Close the paper compartment cover until you hear it engage.

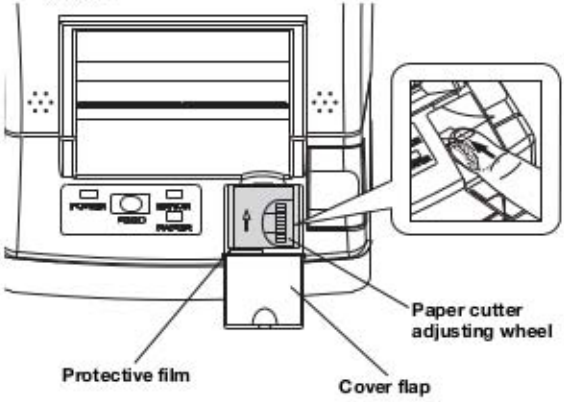
7.3 Reset paper cutter (seca 466)

If objects have got into the paper feed section or if the paper has jammed, the paper cutter may not return to its initial position. In this case, the **Error** LED flashes.

NOTE
If the paper cutter does not return to its initial position, the paper compartment cover cannot be opened.

Proceed as follows to retract the paper cutter to its initial position manually.

1. Switch off the printer.
2. Open the flap covering the **paper cutter** adjusting wheel.



ATTENTION!
Damage to device from missing protective film
The **paper cutter** adjusting wheel and the mechanism beneath it are protected by a film.
- Do not remove the protective film.
- Simply lift the protective film to operate the adjusting wheel.

3. Turn the **paper cutter** adjusting wheel in the direction of the arrow until the paper cutter has returned to its initial position.
4. Open the paper compartment cover.
5. Eliminate the cause of the fault.
6. Close the paper compartment cover until you hear it engage.
7. Switch on the printer.

8. MAINTENANCE

We recommend having maintenance carried out by a local service partner. The seca customer service department would be pleased to help here.

9. TECHNICAL DATA

Technical data for seca 465_466	
Dimensions of **seca 465** • Depth • Width • Height	 170 mm 106 mm 116.5 mm
Weight of **seca 465**	430 g
Dimensions of **seca 466** • Depth • Width • Height	 180 mm 106 mm 105 mm
Weight of **seca 466**	630 g
Ambient conditions for operation • Temperature range • Humidity	 +10 °C to +40 °C 10 % to 85 % relative humidity (no condensation)
Ambient conditions for storage • Temperature range • Humidity	 -20 °C to +60 °C 10 % to 90 % relative humidity (no condensation)
Power supply unit • Input • Output	 AC 100 V- 240 V, 50/60 Hz DC 8.5 V, 2.5 A
Power consumption • Standby • Printing	 approx. 2 W approx. 18 W (max. 25 W)
Service life of print head: • pulse resistance (print rate 12.5 %) • resistance to wear (normal temperature/ humidity, recommended paper used) Service life of paper cutter (normal temperature/ humidity, recommended paper used)	 1 x 10^8 pulses 50 km 1 million cuts
Print method	Thermal, direct
Print width	48 mm / 384 dots
Dot density • Standby • Printing • Resolution	 8 dots/mm 8 dots/mm 203 dpi
Printing speed • Thermal paper • Labels (**seca 466**)	 max. 80 mm/s max. 60 mm/s

Technical data for seca 465_466	
Paper	
• Roll of thermal paper	58 mm x ∅ 83 mm
• Roll of labels (**seca 466**)	58 mm x ∅ 80 mm
• Paper thickness	0.06 mm to 0.1 mm
Wireless transmission	
• Frequency band	2.433 MHz - 2.480 MHz
• Transmission power	<10 mW
• Standards met	EN 30028

10. ACCESSORIES

Accessory	Article number
Printer paper:	
• thermal paper	485-0000-009
• labels	486-0000-009
• Black Mark paper	Not available from seca

11. DISPOSAL

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

service@seca.com

12. WARRANTY

We offer a two-year warranty from the date of delivery for defects attributable to faulty material or poor workmanship. This excludes all moveable parts such as (rechargeable) batteries, cables, power supply units, etc. Defects which are covered by the warranty shall be rectified free of charge for customers on production of the sales receipt. No further claims can be accepted. The costs of shipment in both directions shall be borne by the customer when the device is not located at the customer's premises. In the event of any damage during shipment, warranty claims can only be made if the complete original packaging was used for shipment and the printer was secured inside as when originally packed. You should therefore keep all packaging.

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

We ask customers based abroad to contact their local sales agent directly in the case of warranty claims.