
SOLID 52 A4

Operator's Manual

Edition 1.1



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1. Introduction

1.1. General Description

The print system SOLID 52 A4 works on an electrophotographical base employing a laser as exposure unit.

The resolution of 600 dots per inch is corresponding to about 24 pixels per mm (see section 9.16: Choosing Print Resolution).

The maximum print speed is 52 A4 pages per minute for the SOLID 52 A4.

This SOLID printer is able to process different paper qualities with a weight from 60 up to 203 g/m². Paper sizes from A6 to Legal are fed from adjustable cassettes.

Simplex printing as well as duplex printing is possible.

The SOLID 52 A4 is shipped with one paper cassette (550 sheets of 75g/m² paper) as a standard. Additional cassettes are available as an option (the printer can be equipped with up to 4 cassettes, each with a capacity of 550 sheets).

In addition the printer SOLID 52 A4 can be equipped with a Face Up Exit or an Output Expander (both devices are options).

The special advantage for SOLID-system users is also based on the integrated MICROPLEX high performance controller. The controller prints different information, such as text, bar code, vector graphics and TIFF images in rated speed.

The controller "understands" most of the current emulations and is compatible with different types of networks.

More importantly, the MICROPLEX controller offers its own language, known as IDOL. The IDOL emulation offers a multitude of convenient forms management and copying functions.

The MICROPLEX printer controller has its integrated website, this allows a printer configuration via Ethernet. See [Networking Features of MICROPLEX Printers](#) for more information.

1.2. Fundamentals of Digital Printing

Digital information (like a form with text, a company logo and vector graphics) is transferred from the EDP - system to the laserprinter's input buffer in a coded manner called an "emulation" or "page description language".

The controller decodes information and defines letters, numbers, graphics, etc. into bit patterns and posts them into the controller's frame store. This way, a copy of the future print which is generated by dots is produced.

The electronically controlled laserbeam now plots the dot pattern in rows onto the light-sensitive surface of a rotating pre-charged drum. Toner is caused to adhere to the electrostatic latent image formed on the drum surface. This image consisting of toner particles is electrically transferred onto the paper, which is guided past the drum. This process is supported by an electrostatic field below the paper (transfer charger).

When transported further, the toner particles, which are affected by heat and pressure, are combined resistantly with the paper inside the fusing unit. The drum is discharged and cleaned.

1.3. CE - Conformity



EC DECLARATION OF CONFORMITY

Manufacturer: MICROPLEX Printware AG
Panzerstrasse 5
D-26316 Varel
Germany

Product: Laser Printer

Type: SOLID 52 A4

Conforms with the following EC directives:

Document	Title
2014/35/EU Harmonised Standards	EU Low Voltage Directive: (March 2014) EN 60950-1:2006 + A1: 2010 + A2: 2013 + A11: 2009 + A12: 2011 EN 60825-1: 2014 EN 62311: 2008 EN 62368-1: 2014 + AC: 2015
2014/30/EU Harmonised Standards	EU EMC Directive: (March 2014) EN 55032 : 2012 (Class A) EN 55024 : 2010 EN 61000-3-2 : 2014 EN 61000-3-3 : 2013
2011/65/EU Harmonised Standards	EU RoHS Directive EN 5058 : 2012

Varel, 05.04.13


Prokurist/COO
Gero Decker

On the basis of this declaration, this product will
bear the following mark:



1.4. Conventions

To find the requested information more quickly and to understand instructions more easily, the following symbols are used:



This symbol refers to a possible source of danger. If you do not pay attention to this information, injuries may result, the functioning of the printer could be reduced, or the device could be damaged.



This symbol refers to important hints and suggestions on using the printer. Disregarding these hints might cause problems with the printer or within the environments.



This symbol represents a key of the control panel.



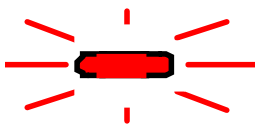
This symbol represents a button of the printer's integrated website (IP-Panel). Such symbols will be used in this manual whenever buttons have to be clicked in order to activate certain functions.

[blue colored text](#)

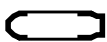
Link to another chapter or a different document. By clicking the blue colored text you'll enter the concerning chapter or document.

[Menu Level 1]

This symbol represents messages shown in the touchscreen.



This symbol shows a shining LED (light emitting diode). The SOLID printer panel is provided with two LEDs.



This symbol will be used in this manual to show an LED that is not shining.

1.5. General Safety Instructions



This device produces, employs and possibly radiates high frequency energy. Because of this, incorrect installation can disturb radio communications.

Laser Notice



This printer is certified as a Class 1 laser product (DHHS Department of Health and Human Services). The laser system and printer are designed so there is never any human access to laser radiation above a Class 1 level during normal operation, user maintenance, or prescribed service condition. All handling or procedures that differ from the ones being described in this manual are to be omitted. Disregarding might release dangerous laser radiation.

This MICROPLEX product and its consumables are designed and tested according to strict safety standards.

By heeding the following instructions, the user is ensured safe operations:



- Please make sure your electricity source is properly grounded.
- Install the device on solid and level ground.
- Only trained staff are authorized to transport the equipment.
- Only use consumables which are specially developed for this device.



- Using improper consumables may cause a reduction of output quality or damage to the device.
- Ensure no liquids get on or into the device.
- Do not remove any cover or safety device fastened by screws.
- Do not bridge a safety device.
- Do not push anything into the ventilation apertures.



- To reduce the risk of equipment instability, load each tray (cassette) separately. Keep all other trays closed until needed.
- Never carry out installations, cleanings, or maintenance operations which are not described in this manual. These operations should only be done by MICROPLEX authorized service personnel.



In order to disconnect the printer quickly from the main power in the event of an emergency, please note the following:

- For printers connected by a plug, the power-outlet should be installed near the printer and easily within reach.
 - For permanently connected printers, an easily accessible emergency power-off switch should be installed close to the printer.
 - Please do not conceal the disconnect devices with the printer or other objects.
-
- 
- Please follow all the instructions and hints directly attached to the device and/or described in this manual.
 - To ensure optimum printer performance, only use MICROPLEX consumables.

2. Installation

2.1. Check List

First, place the printer and the accessories onto a level surface until the final location of the printer is chosen.

Please make sure that there are no transport damages and that everything is included.

Damages should be reported to the supplier immediately.

Carefully open the box to make sure the following contents are included:

1. Printer SOLID 52 A4
2. Installed inside the printer: Starter toner cartridge and Imaging unit
3. Power cord
4. Short LAN-Kabel (Description of installation see the added sheet of paper and chapter 5 Setting up the printer , too)
5. CD containing:
 - Operator's Manual for SOLID 52 A4
 - Print drivers
 - IDOL Programming Manual

2.2. Printer Unpacking

1. Open the cardboard box and remove the printer supplies and the polystyrene top elements.

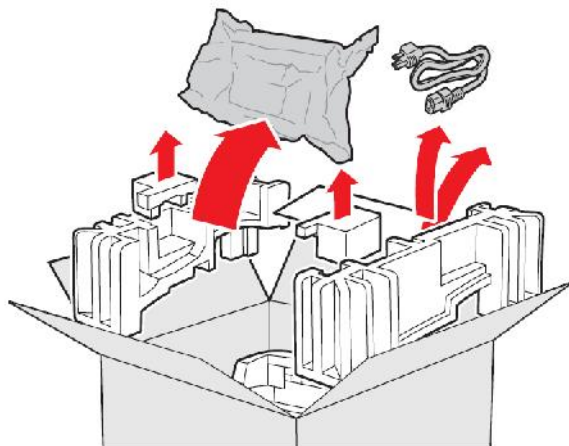


Fig. 2.2.a Removing the printer supplies and packing parts (schematic drawing)



CAUTION! The printer weighs ca. 26 kg (ca. 57 lbs) and requires two people to lift it safely.

2. Lift the SOLID printer out the box carefully.

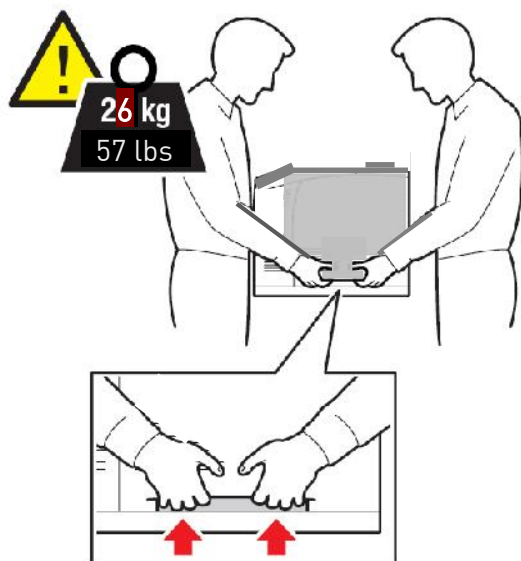


Fig. 2.2.b Lifting and transporting the printer safely

3. Place the printer in onto a suitable base (see section 2.4: Printer Installation).
4. Remove the transport safety elements (compare. Fig. 2.2.c).



Fig. 2.2.c Removing the transport safety elements

Keep all the packing materials for a later transport if necessary.

2.3. “Activating” the Imaging Unit

You have unpacked your printer and chosen a location for it. Now you are ready to set up printer supplies.

On the following pages the working steps are described which are necessary to remove the packing parts of the imaging unit. These steps have to be done before you start to use your printer.

Please note the following items every time when installing a new imaging unit:



After unpacking the imaging unit you have to install this unit into the printer rapidly to minimize the time of exposure to light.

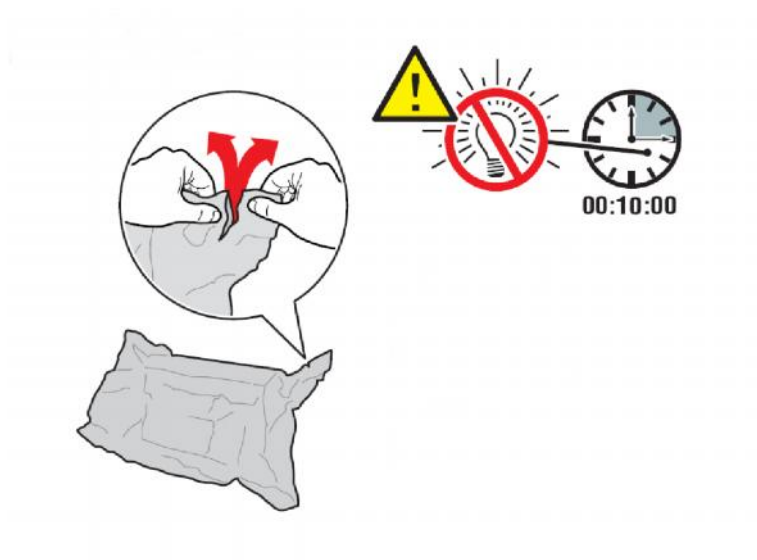


Fig. 2.3.a Unpacking the new imaging unit (schematic drawing)

1. Open the printer's door.



Fig. 2.3.b Opening the printer's door



To prevent damage from electrostatic discharge, touch any exposed metal frame of the printer before accessing or touching interior areas of the printer.

2. Remove the toner cartridge from the printer.

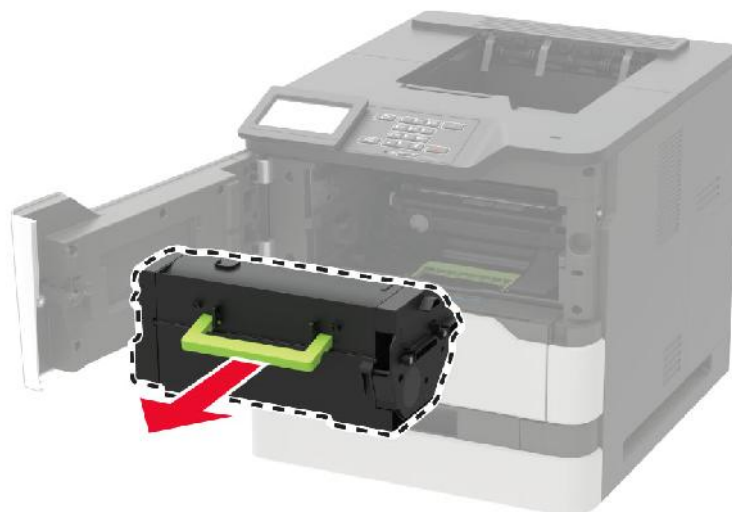


Fig. 2.3.c Removing the toner cartridge from the printer

3. Shake the toner cartridge three times just as shown in the following figure and then lay the toner cartridge aside.

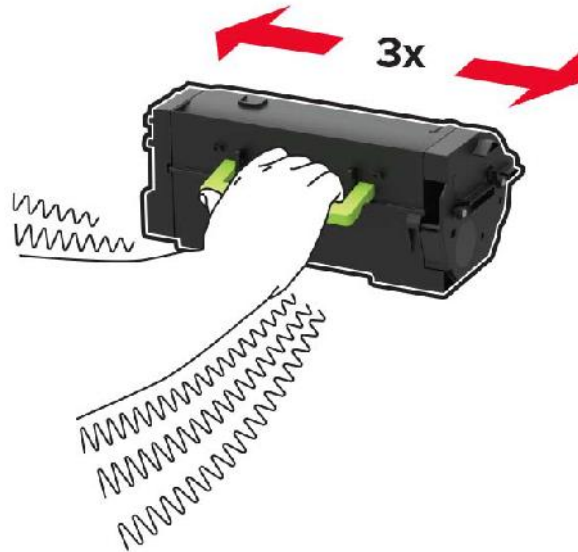


Fig. 2.3.d Shaking the toner cartridge

4. Remove the imaging unit from the printer.



Fig. 2.3.e Removing the imaging unit from the printer

5. Shake the imaging unit three times just as shown in the following figure to distribute the imaging powder.

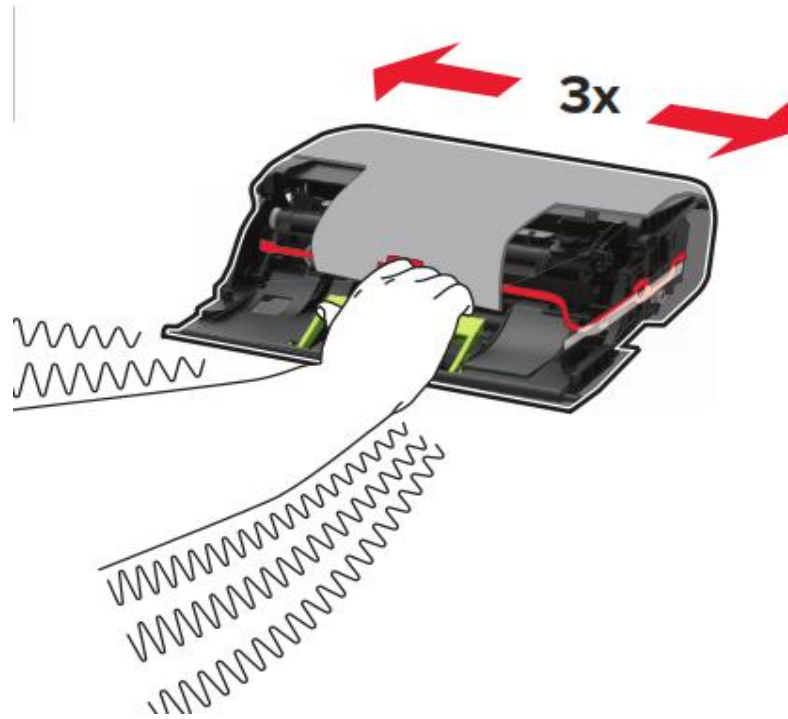


Fig. 2.3.f Shaking the imaging unit



Do not leave the imaging unit (respectively the photoreceptor drum) exposed to light for more than 10 minutes! Extended exposure to light may cause print quality problems.

Always use the handle to grasp the imaging unit.
[Compare figure 2.3.f].



Do not touch the photoreceptor drum!
Doing so may affect the quality of future print jobs.



Fig. 2.3.g Exposed area of the photoreceptor drum

6. Loosen the security strips which are used to fix the protective covering around the imaging unit.



Fig. 2.3.h Loosening the security strips of the protective covering

7. Remove the protective covering together with the security strips and discard it.

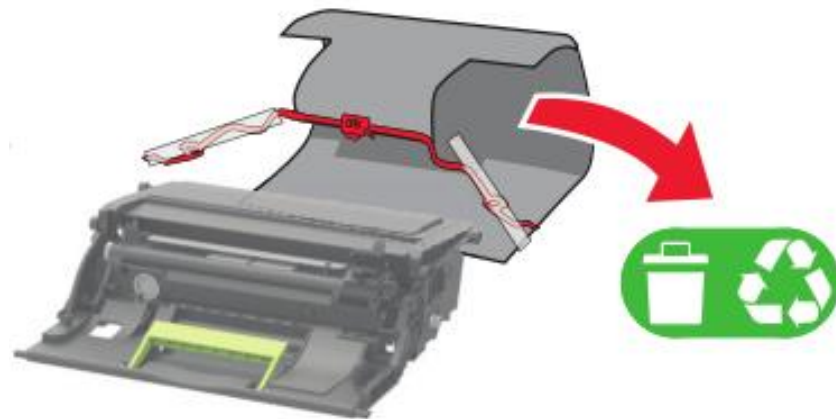


Fig. 2.3.i Removing the protective covering

8. Install the imaging unit to the printer again (see the following figure).



Fig. 2.3.j Reinstalling the imaging unit

9. Install the toner cartridge to the printer again (see the following figure).



Fig. 2.3.k Reinstalling the toner cartridge

10. Close the printer's door.



Fig. 2.3.l Closing the printer's door

2.4. Printer Installation



- The chosen location should be clean, dry and well-ventilated.
- Damaging environmental factors such as metal vapors, oil mist corrosive leaches or the like must not affect the printer.
- Place the printer on a horizontal, firm and solid surface.
- The printer environment has to be free of shocks and vibrations.



- The printer and socket have to be easily accessible.
- The printer should not be located near volatile or combustible materials (i.e. a curtain).



- To avoid damage, the devices must be switched off (i.e. cut off from the power supply) before the user begins connecting the interface lines.



- The printer must be connected to an appropriate AC power source 120V AC/60 Hz (North America) or 230V/50 Hz (Europe, United Kingdom e.g.). The power source must be properly grounded. The socket and power cords must not be damaged.
- Use the printer only within the allowed fluctuation range of $\pm 10\%$.
- The power source must be free of noise, and not subjected to surges or noise (i.e. generated by big machines).



If you're going to move or transport the printer, keep the following in mind:

- Because the printer is heavy (approximately 26 kg [57 lbs]), two people are required to lift it safely.
- Remove the toner cartridge and the imaging unit before you move or transport the printer!
If the printer is moved with the toner cartridge and the imaging unit installed, toner may spill out and damage the printer.
- Be sure to plug the printer into a properly grounded outlet in the new location.

- Please note the following environment conditions are needed to operate the printer at full capacity:

Temperature: +10°C (50°F) to +32°C (90°F)

Relative atmospheric humidity: 8% to 80%



- Do not expose the printer to abrupt temperature changes (heating, window or air conditioning).
- The printer should not be exposed to direct sunlight.
- Required space:

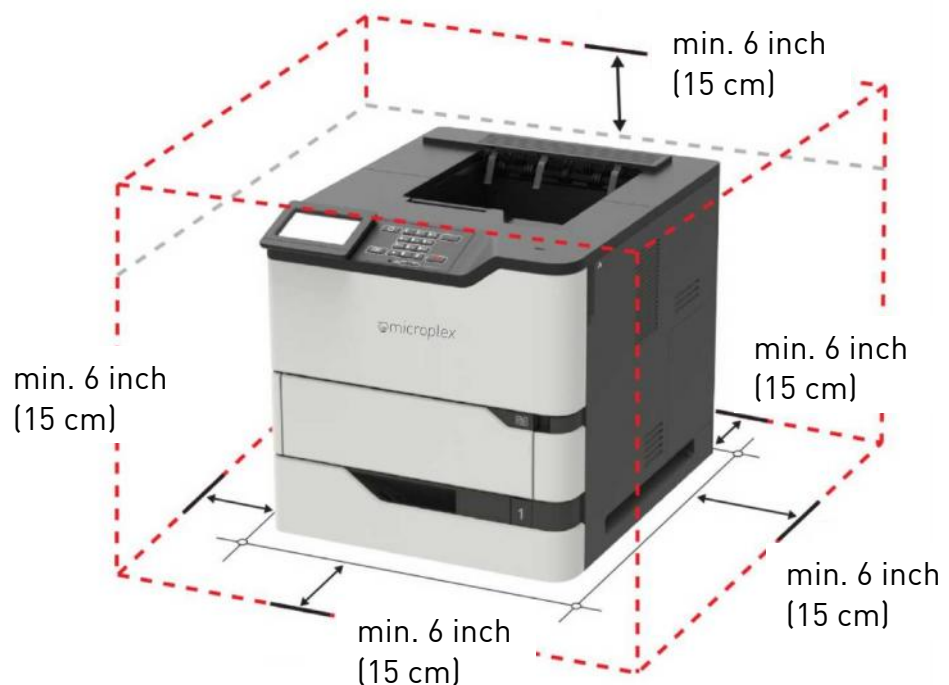


Fig. 2.5.a Required space for the SOLID 52 A4 (printer without options)

2.5. Printer Components

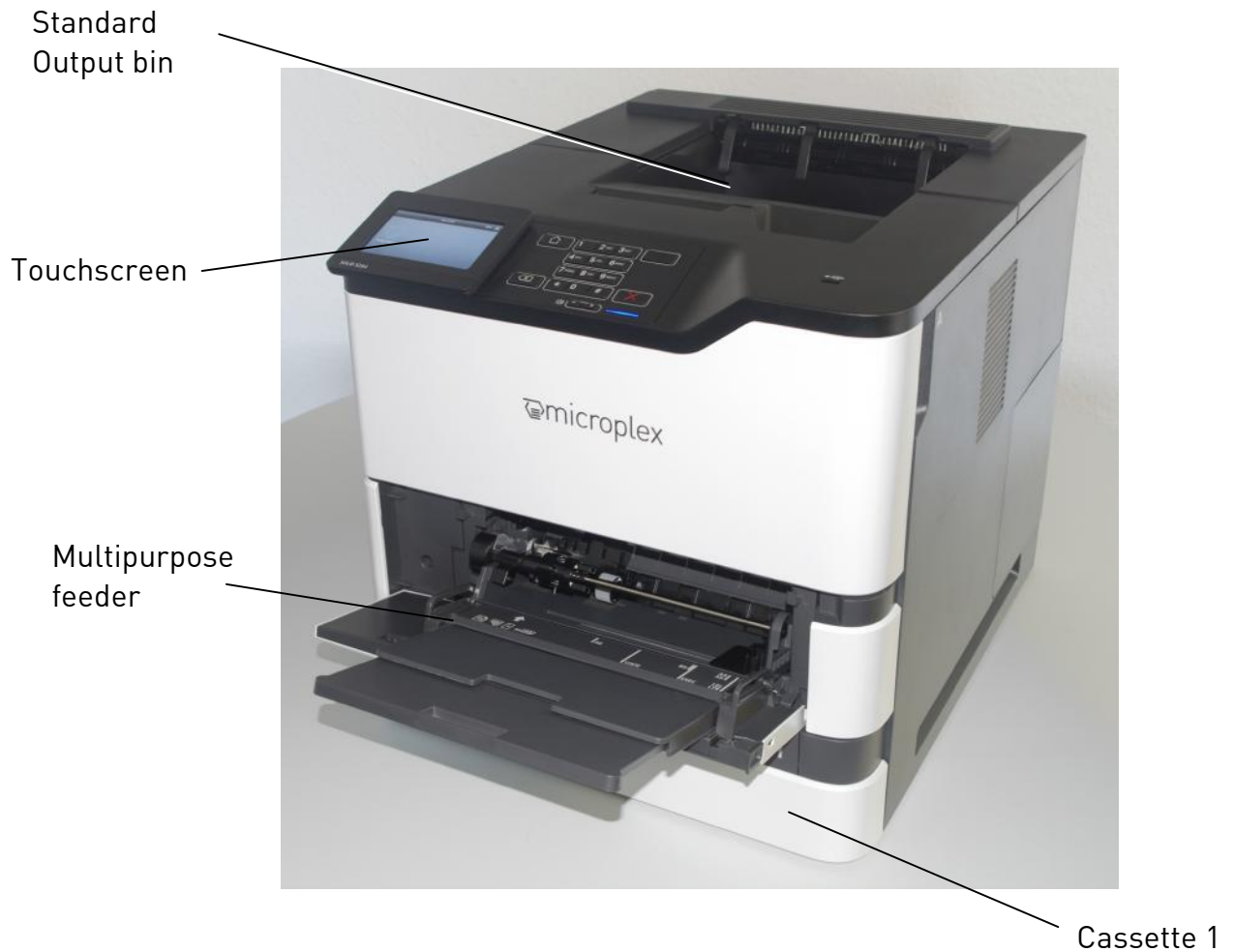


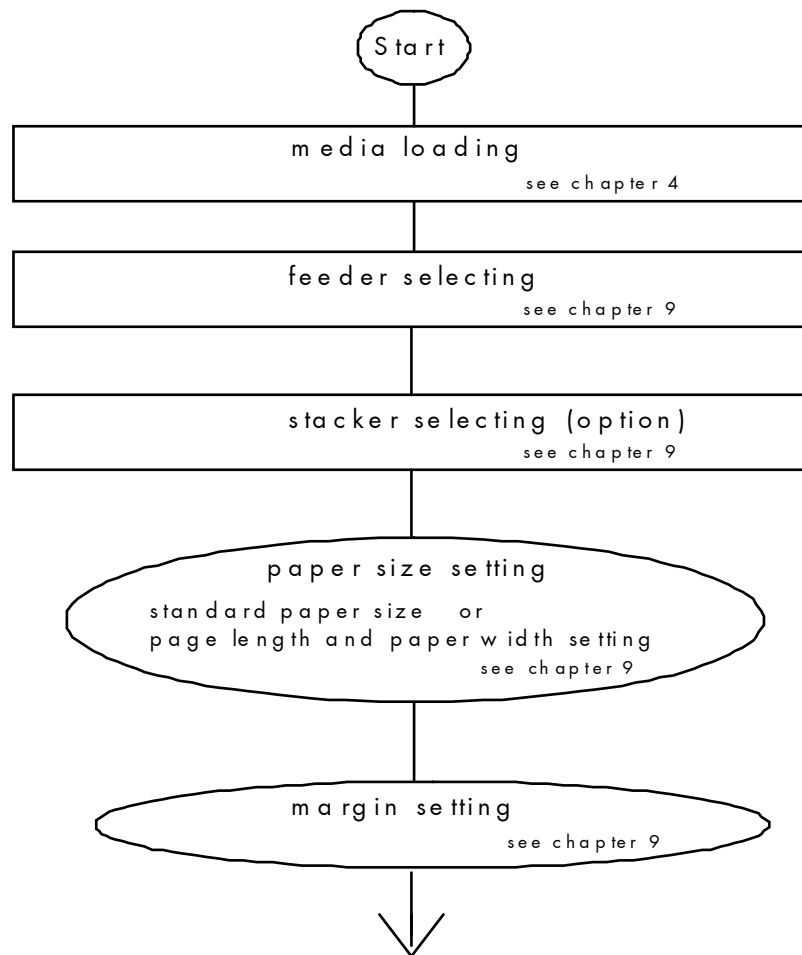
Fig. 2.5.a Main view of the SOLID 52 A4 printer



Fig. 2.5.b Interfaces located at the rear side of the SOLID 52 A4

3. Basic Operation Sequences

3.1. Overview





An output of the current setting values can be generated using the "Printing the Status Sheet" panel function (see section 9.1). You also can use the integrated website to get access to the Status Sheet. Details can be found in chapter 7 Control the Print System Remotely via Website / IP-Admin Panel.

Detailed information on the operations above and to further functions of the printers SOLID 52 A4 can be found in the following chapters.

4. Handling of Consumables

4.1. Print Media Handling (Paper, e.g.)



The printer processes sizes from A6 to A4 , the maximum size is „Legal“ (8.5 x 14 inch). Paper weight's from 60 to 203 g/m² are supported.



Paper jams can be avoided by accurately and carefully filling the paper trays (cassettes). Make sure paper lies flat in the cassette. Please do not open or remove a paper cassette while the printer is running.

Please notice the specifications about the paper's "print-side" (see the information on the paper packing).



To reduce the risk of equipment instability, load each tray (cassette) separately. Keep all other trays closed until needed.

4.1.1. Loading Paper to the Printer's 550 sheet Cassette

Your SOLID 52 A4 comes with a 550 sheet cassette as a standard.

Additional cassettes can be ordered (up to 4 optional cassettes can be installed. Each cassette can hold 550 sheets of plain paper with 75 g/m²).

1. Pull the cassette completely out of the printer (see figure 4.1.1a).



Fig. 4.1.1.a Removing a cassette

2. Take out any remaining paper ("old" paper size).
3. Please take note of the information shown in the cassettes.



Use the Indicators on the bottom of the tray to position the guides.

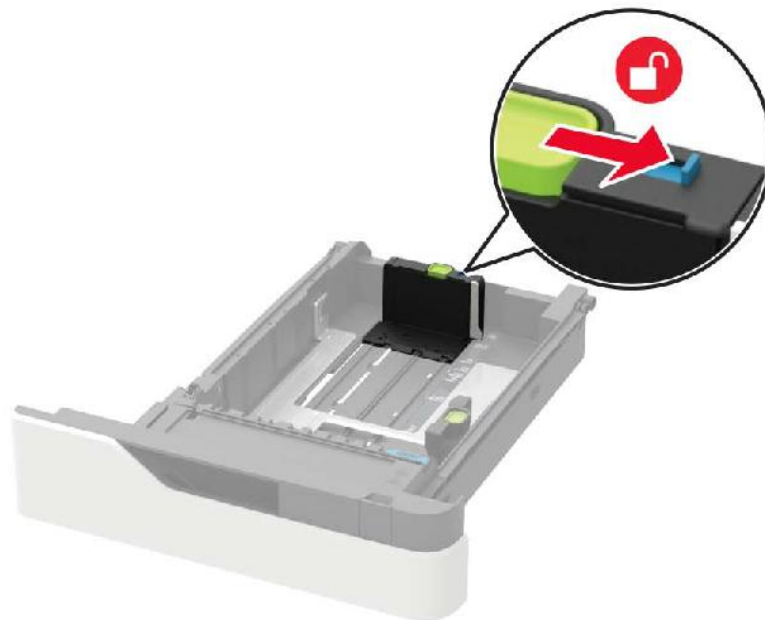


Fig. 4.1.1.b Unlocking the paper guide

4. Now the paper guides inside the cassette have to be roughly adjusted to a size greater than the new paper size (compare Fig. 4.1.1.c).

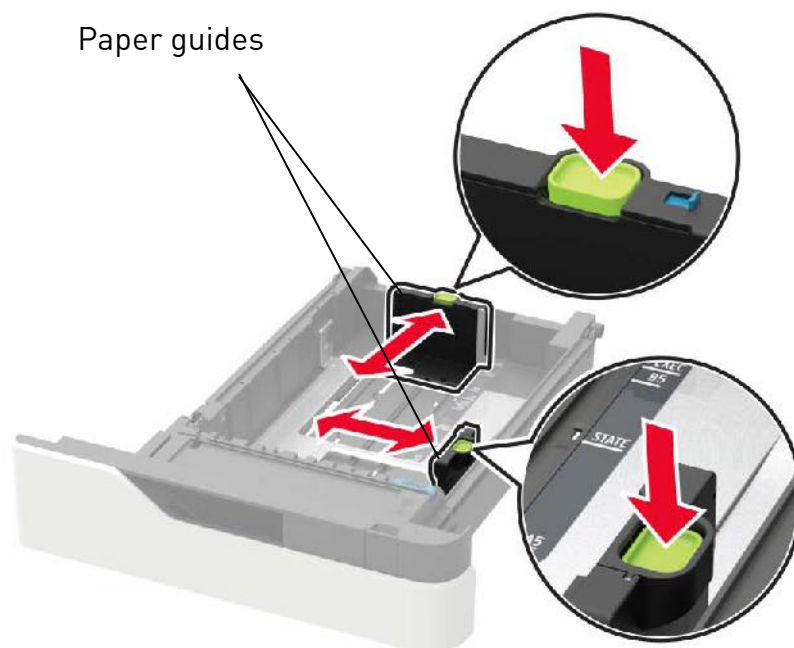


Fig. 4.1.1.c Adjusting the paper guides to the new paper size and above that

5. Straighten out the new paper (compare figure 4.1.1.d).
Do not load bent or wrinkled print media.
6. Align the edges of the paper pile at a level surface.

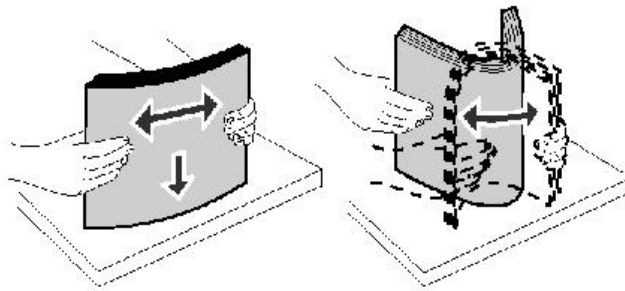


Fig. 4.1.1.d Fanning and aligning the paper pile

7. Insert the paper into the paper cassette as shown in the following figure (with the printable side facedown).

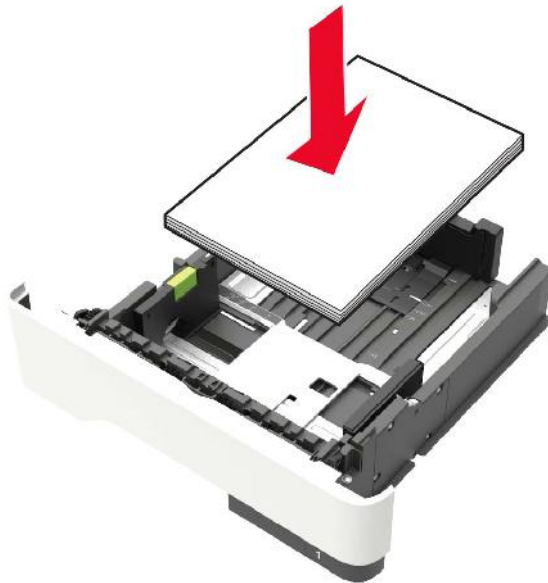


Fig. 4.1.1.e Inserting the paper

8. Operate the green levers of the paper guides (see Fig. 4.1.1.f) and slide the guides towards the paper until both guides lightly touch the stack of print media.



Fig. 4.1.1.f Adjusting the paper guides

9. Do not exceed the maximum stack height.



Fig. 4.1.1.g Notice the maximum stack height indicators



Overfilling the cassette may cause paper jams.

Do not load bent or wrinkled print media.

10. Slide the cassette all the way into the printer.

4.1.2. Loading Paper to the Printer's optional 2100 sheet Cassette



This optional cassette has to be installed below the standard printer. This cassette may only be used in connection with the so called "Caster Base" (optional device for the SOLID 52 A4) !

To reduce the risk of equipment instability, load each tray (cassette) separately. Keep all other trays closed while loading the 2100-sheet tray.

1. Pull the 2100-sheet tray completely out of the printer
2. Take out any remaining paper ("old" paper size).
3. Pull up and slide the width guide to the correct position for the size of the paper being loaded.



Fig. 4.1.2.a Pulling up and sliding the width guide to the correct position

4. If the A5 length guide is still attached, then remove it. If the guide is not attached, then proceed to step 6.

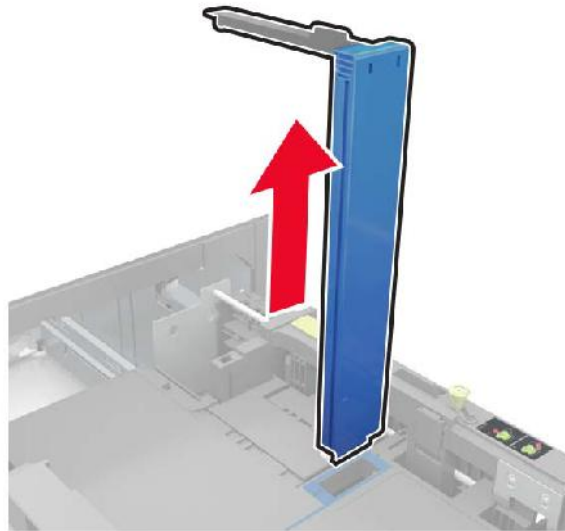


Fig. 4.1.2.b Pulling up the A5 length guide to remove it

5. Place the A5 length guide in its holder.

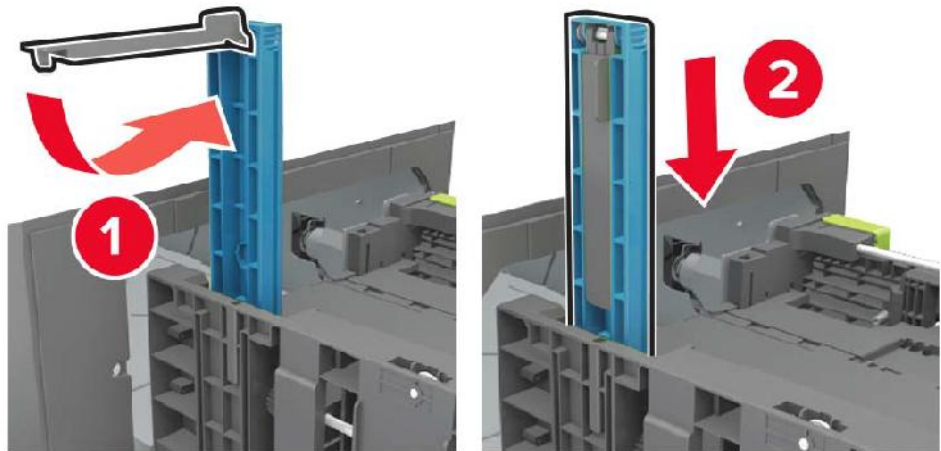


Fig. 4.1.2.c Placing the A5 length guide in its holder

6. Squeeze and then slide the length guide to the correct position for the size of the paper being loaded. The length guide has to click into place.

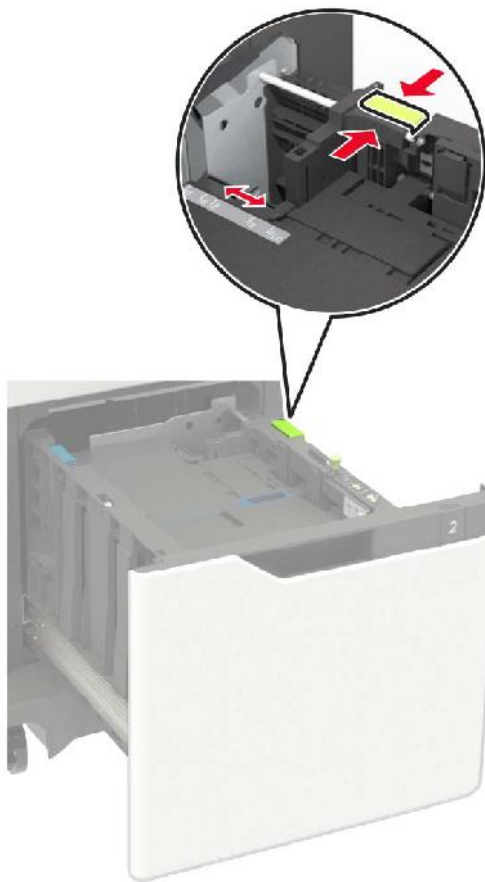


Fig. 4.1.2.d Sliding the length guide to the new paper size

7. Straighten out the new paper. Align the edges of the paper pile at a level surface.

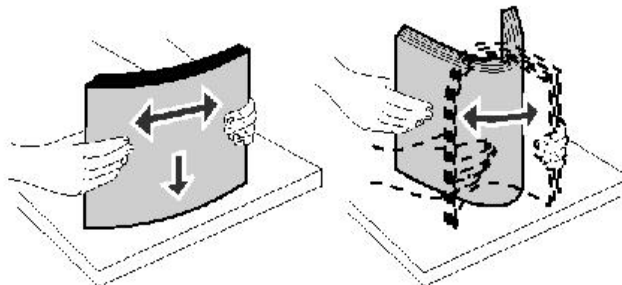


Fig. 4.1.2.e Fanning and aligning the paper pile

8. Insert the paper into the 2100-sheet tray (with the printable side facedown).



Do not load bent or wrinkled print media.

9. Move the 2100-sheet tray into the printer.



Please note: You have to press down the paper stack while inserting the 2100-sheet tray.

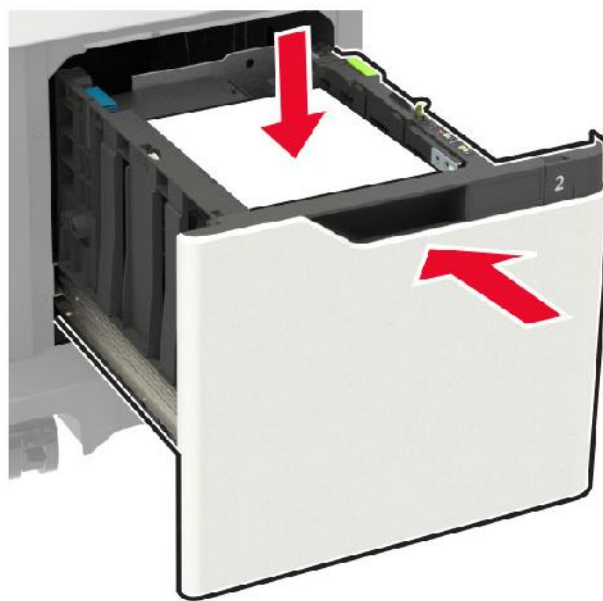


Fig. 4.1.2.f Pressing down the paper stack while inserting the tray

4.1.3. Loading the multipurpose feeder

1. Open the printer's multipurpose feeder.



Fig. 4.1.3.a Opening the multipurpose feeder

2. Adjust the guide to match the size of the paper that you intend to use.



Fig. 4.1.3.b Adjusting the guide to match the size of your paper

3. Straighten out the new paper. Align the edges of the paper pile at a level surface before loading (compare the following figure).

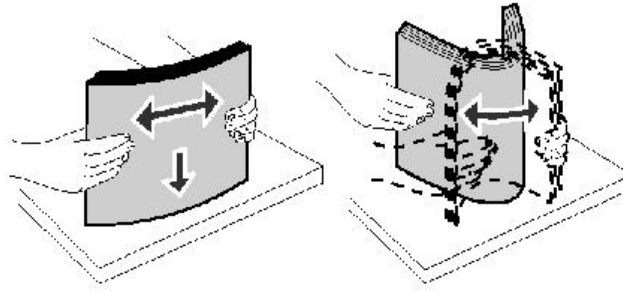


Fig. 4.1.3.c Fanning and aligning the paper pile

4. Load the paper pile into the multipurpose feeder with the printable side faceup.

4.1.4. Using the Output bin

The printer has one standard bin, where the print media exits face down.



Fig. 4.1.4.a Standard output bin of the printer

The printer SOLID 52 A4 can be equipped with an Output Expander or a Face Up Exit (both devices are options).

4.2. Toner Cartridge Replacing

Replace the toner cartridge as soon as the message [Toner empty] is displayed.

On average 15,000* (or 55000 in case of Ultra High Yield) letter-size pages can be printed with one standard toner cartridge. (This depends on the print density. In this example, a print density of 5% was considered).

(* on average 11,000 letter-size pages can be printed with the starter toner cartridge, compare extent of supply.)

Warning: We do not recommend purchasing cartridges from a third party. Print quality and printer reliability cannot be guaranteed if you do. The printer warranty does not cover damage caused by using such toner cartridges.



Please store the toner cartridge in its original packing until it is installed.

Extreme fluctuations of atmospheric humidity and/or temperature are not allowed.

The values listed in section 2.4 need to be met.

In order to replace the toner cartridge, follow these instructions:



Notice the information used with the toner cartridge also.

1. Open the printer's door.



Fig. 4.2.a Opening the printer's door



To prevent damage from electrostatic discharge, touch any exposed metal frame of the printer before accessing or touching interior areas of the printer.

2. First remove the old toner cartridge from the printer.

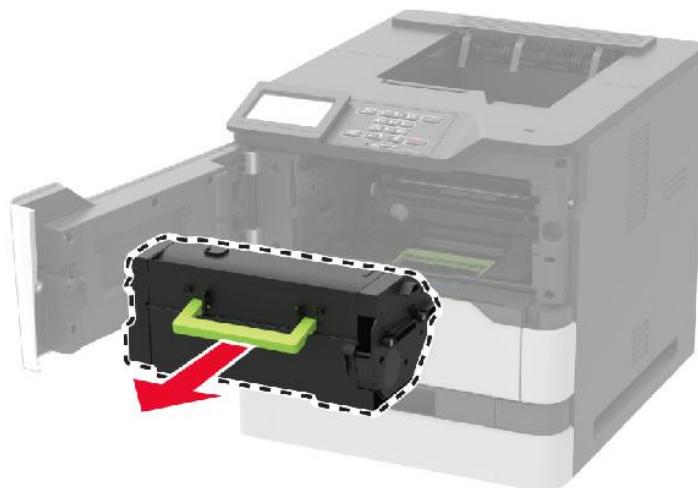


Fig. 4.2.b Removing the old toner cartridge

3. Unpack the new toner cartridge.
4. Shake the toner cartridge as shown in Fig. 4.2.c .

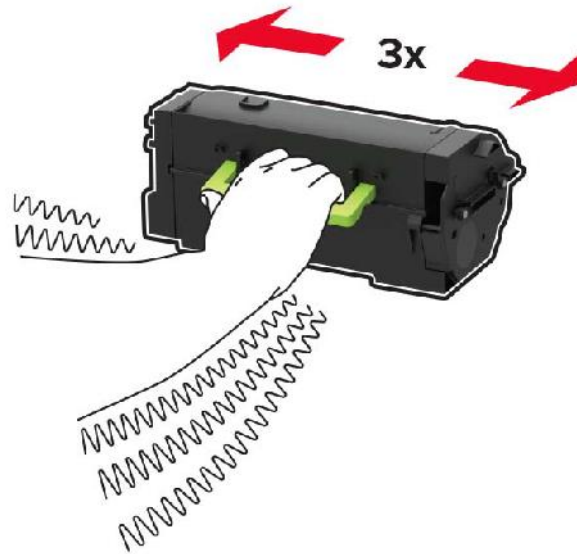


Fig. 4.2.c Shaking the toner cartridge

5. Slide the new toner cartridge into the printer as shown in figure 4.2.d.



Fig. 4.2.d Inserting the new toner cartridge

6. Close the printer's door.

4.3. Imaging Unit Replacing

Replace the imaging unit as soon as the message [Replace Developer] is displayed.
On average 150,000 letter-size pages can be printed with one imaging unit.



Please store the imaging unit in its original packing until it is installed.

Extreme fluctuations of atmospheric humidity and/or temperature are not allowed.
The values listed in section 2.4 need to be met.

In order to replace the imaging unit, follow these instructions:



Notice the information used with the imaging unit also.

1. Open the printer's door.



Fig. 4.3.a Opening the printer's door



To prevent damage from electrostatic discharge, touch any exposed metal frame of the printer before accessing or touching interior areas of the printer.

2. Remove the toner cartridge.

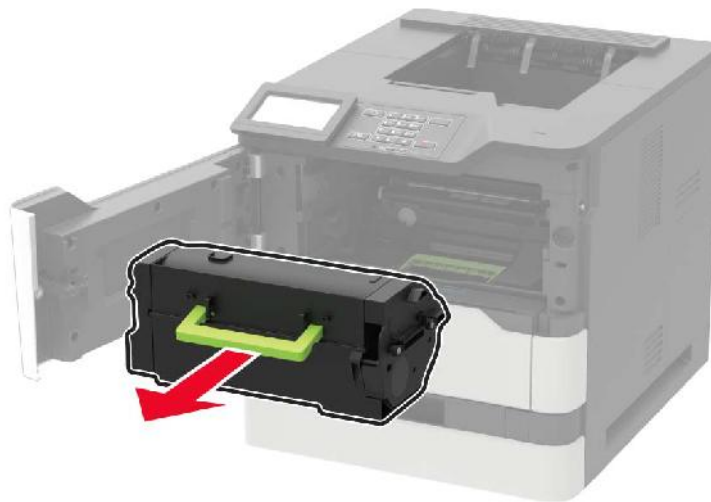


Fig. 4.3.b Removing the toner cartridge

3. Remove the old imaging unit.

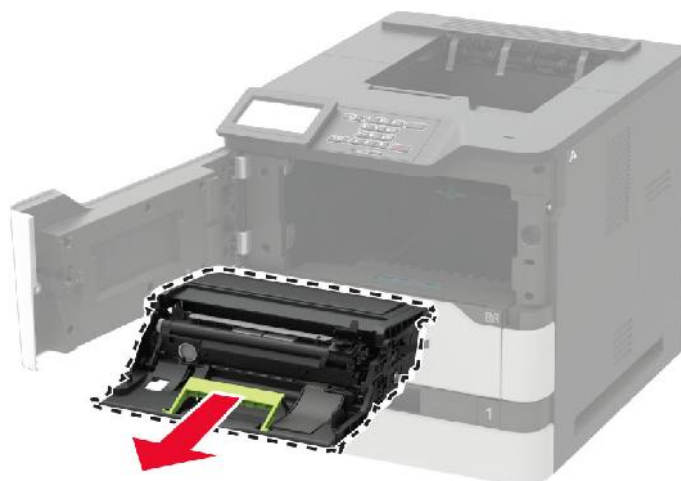


Fig. 4.3.c Removing the old imaging unit

4. Please note the following while doing the next work steps:



Do not leave the new imaging unit exposed to light for more than 10 minutes!

Extended exposure to light may cause print quality problems.

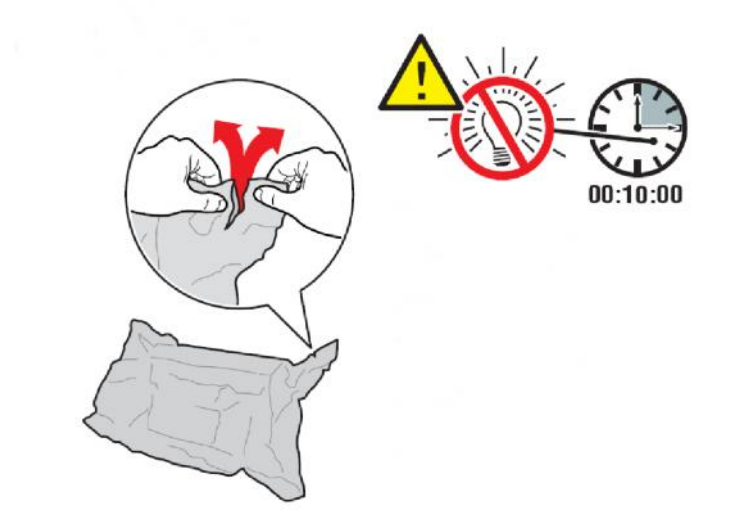


Fig. 4.3.d Unpacking the new imaging unit



Always use the handle to grasp the imaging unit.
(Compare figure 4.3.f).



Do not touch the photoreceptor drum!
Doing so may affect the quality of future print jobs.



Fig. 4.3.e Exposed area of the photoreceptor drum

5. Shake the imaging unit as shown in Fig. 4.3.f to redistribute the toner.

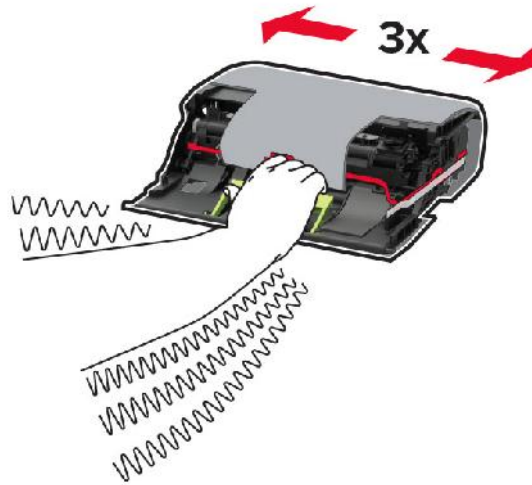


Fig. 4.3.f Shaking the imaging unit

6. Remove the rest of packing material ("Activation" of the imaging unit; compare section 2.3).
7. Slide the new imaging unit into the printer as shown in the following figure .



Fig. 4.3.g Sliding the new imaging unit into the printer

8. Insert the toner cartridge.



Fig. 4.3.h Inserting the toner cartridge

9. Close the printer's door.

5. Setting up the Printer



The printer's first installation has to be done by a trained service engineer.

5.1. Installation of the short LAN Cable (connecting the MPC)

1. First unpack the printer and place it onto a suitable base (as described in chapter 2 Installation).



Before starting the Printer for the first time please install the LAN cable first!

2. Take the short LAN cable (extent of supply) and install it at the rear side of the printer just as shown in the following figures:



Fig. 5.1.a Rear view of the printer



Fig. 5.1.b Detail: Establishing the LAN connection between the MPC and the basic engine

3. Please note:
If you later want to repack the printer for example for a transport, you have to remove the LAN cable first.

5.2. Attaching the Printer to a Network/PC and to the Power Supply

1. Make sure the print system SOLID 52 A4, the computer, and any other attached devices are turned off and unplugged.

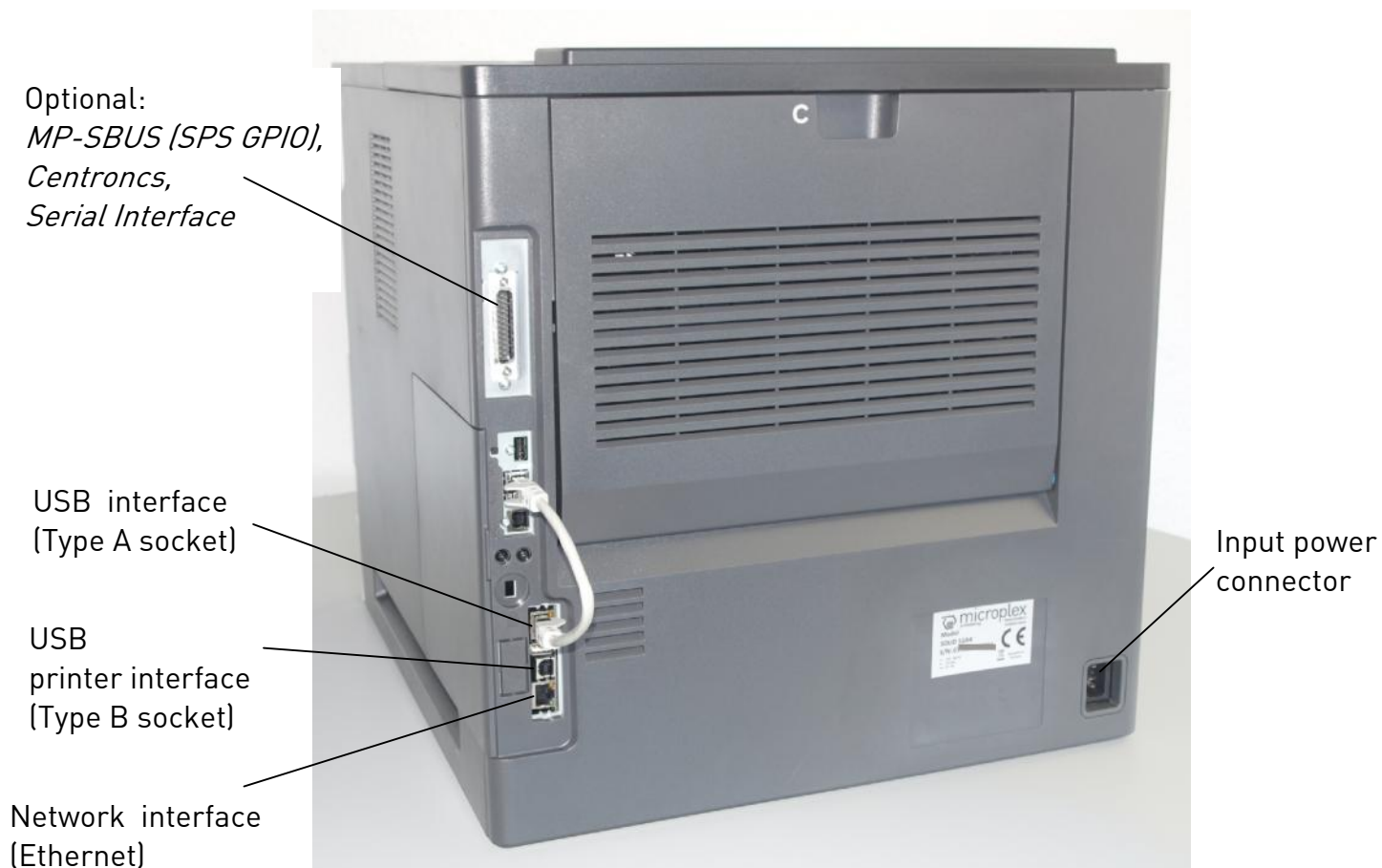


Fig. 5.2.a Interfaces at the rear of the SOLID 52 A4

2. Use a proper interface line to connect the printer SOLID 52 A4 to your computer or to the network.
3. Plug one end of the printer power cord (extent of supply) into the socket at the back of the printer (input power connector, see figure above).
4. Plug the other end of the printer power cord into a properly grounded outlet.

5.3. Print System Power On and Power Save Mode

After attaching the printer power cord (compare previous section) the printer start-up already begins.



The print system requires time to initialize and to warm up after you turn it on.

The SOLID 52 A4 printing system comes with a **Power Save Button**:



Fig. 5.3.a Operating Panel of the SOLID 52 A4 : Power Save Button

Putting the print system into Power Save Mode

1. Before turning off the print system, make sure that a job is not in progress or being processed.
2. If the Power Save button is pressed for longer than 5 seconds, the printer switches to **Power Save mode**.

Switching ON again after Power Save Mode

3. To **exit** Power Save Mode, a **short click** on the **Power Save Button** is enough.

Turning off the print system (disconnect it from the main power supply)

Put the print system into Power Save Mode, first.

To turn off main power, be sure to remove the plug from power outlet or switch off the main supply.



Turn the printer to power save mode **and** after that **unplug the power cord of the print system** if you suspect a machine failure, if there is a bad thunderstorm nearby, or when you are moving the device!

6. Operation Panel of the Device



Fig. 6.a Operation Panel of the SOLID 52 A4

6.1. Control Panels

6.1.1. Touchscreen

The touchscreen is used to install and to operate the printer.



Fig. 6.1.1.a Touchscreen of the SOLID 52 A4

The touchscreen displays the menus to perform a variety of device operations. The screen serves to show the printer's status messages, too.

6.1.2. Indicator Lights and Panel Keys



Fig. 6.1.2.a Detail view shows the Operation Panel

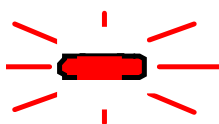
The control panel of the printer comes with two colored lights. Their meanings are as follows:

Indicator Light (LED) (Blue/Red)



The printer is turned on and **ONLINE**.
(The printer is ready to receive data from the host.)

The printer is turned on and **OFF LINE**.
(The printer is not ready to receive data from the host.)



The printer requires user intervention or the printer has registered an **Error**. The printer is OFF LINE.



The printer is turned off or in Power Save mode.

Indicator Light within the Power Save Button (Amber)



Solid amber

The printer is in **Power Save mode**.



The printer is active (or the printer is off).

Panel Keys

	Keys/Buttons	Short description
	Power Save button	If you press and hold this button for 5 seconds, the printer switches to Power Save mode. It only needs a short press on this button to terminate the Power Save mode.
	Home button	Brings you back to the HomeScreen (Return from a printer menu) (back to the screen showing the MPX symbol).
	Numeric keypad	The buttons of the Numeric keypad can be used for some panel functions to enter numbers and characters (instead of data entry via the Touchscreen).
	Stop or Cancel button	Stops the current printer task. (Example: you can press this button to cancel a print job).

Hint: The other buttons are without function.

6.2. How to access the Printer Settings (Touchscreen)

The printer SOLID 52 A4 comes with a Touchscreen.

After the printer is powered On the initialization of the printer is executed. After this the touchscreen at the printer shows the Home screen.



Fig. 6.2.a Operating Panel of the device SOLID 52 A4 (Touchscreen)

6.2.1. Home Screen of the SOLID 52A4 (Startup Screen)

The printer name and the printer status messages are displayed on the Home Screen (Startup Screen). In addition, you will find the MICROPLEX symbol with the caption „Printer Settings“ beneath the symbol on the Home screen.

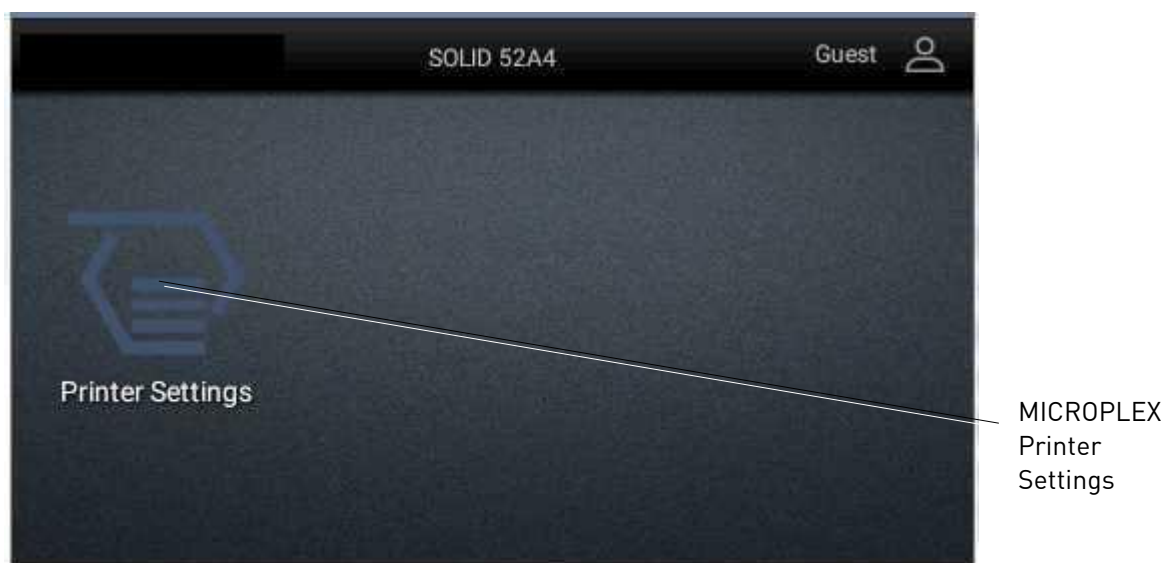


Fig. 6.2.1.a Home Screen of the SOLID 52 A4 (displayed on the Touchscreen of the operation panel)

6.2.2. Short Description of How to Access the Panel Functions

Short Description of accessing the printer via Touchscreen:

„Tap“ the **Symbol / the Parameter**, that you want to access.

A rather more detailed description: tap your finger on that symbol or parameter displayed on the Touchscreen (illustrated by the graphic / symbolic representation in the figure below).

Getting Access to the SOLID 52 A4 Panel Functions (Printer Settings):

- ① „Tap“ the **MICROPLEX** symbol with the caption „Printer Settings“ beneath the symbol, to get access to the **Panel Functions of the printer**.

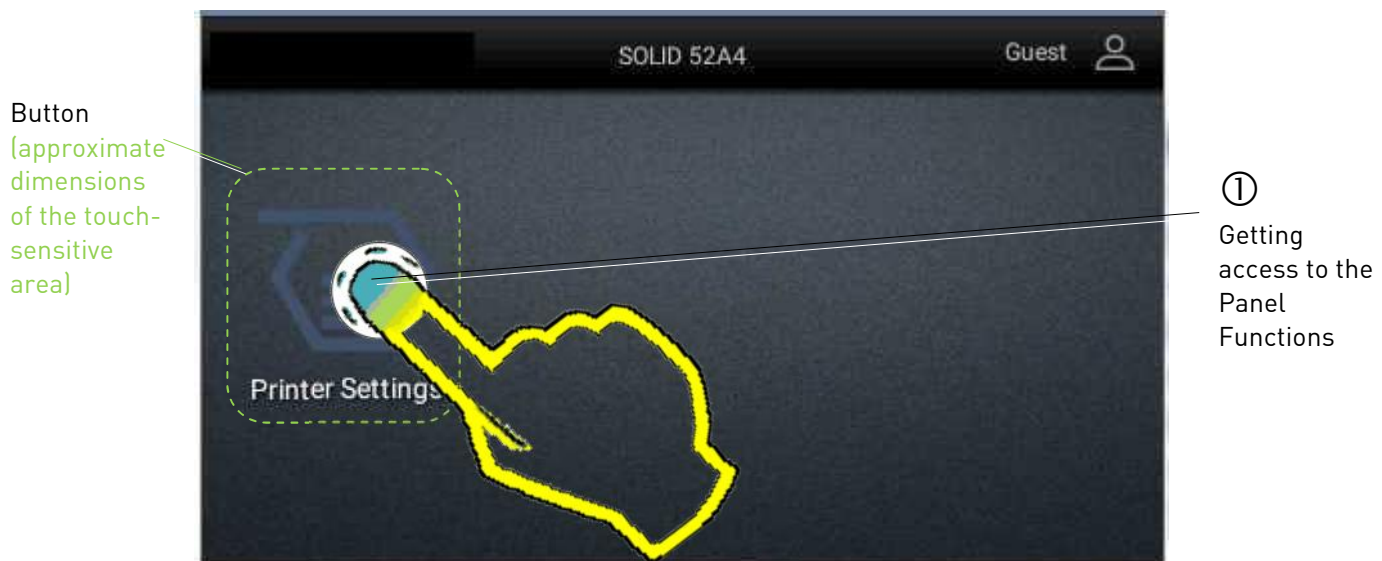


Fig. 6.2.2.a Getting access to the Panel Functions (tap the Touchscreen with a finger)

Touching („Tap“) the MICROPLEX symbol (labeled as „Printer Settings“, compare ① in the figure above) takes you to the Overview Screen of the Panel Functions:

6.2.3. Overview Screen of the Panel Functions (Printer Settings)

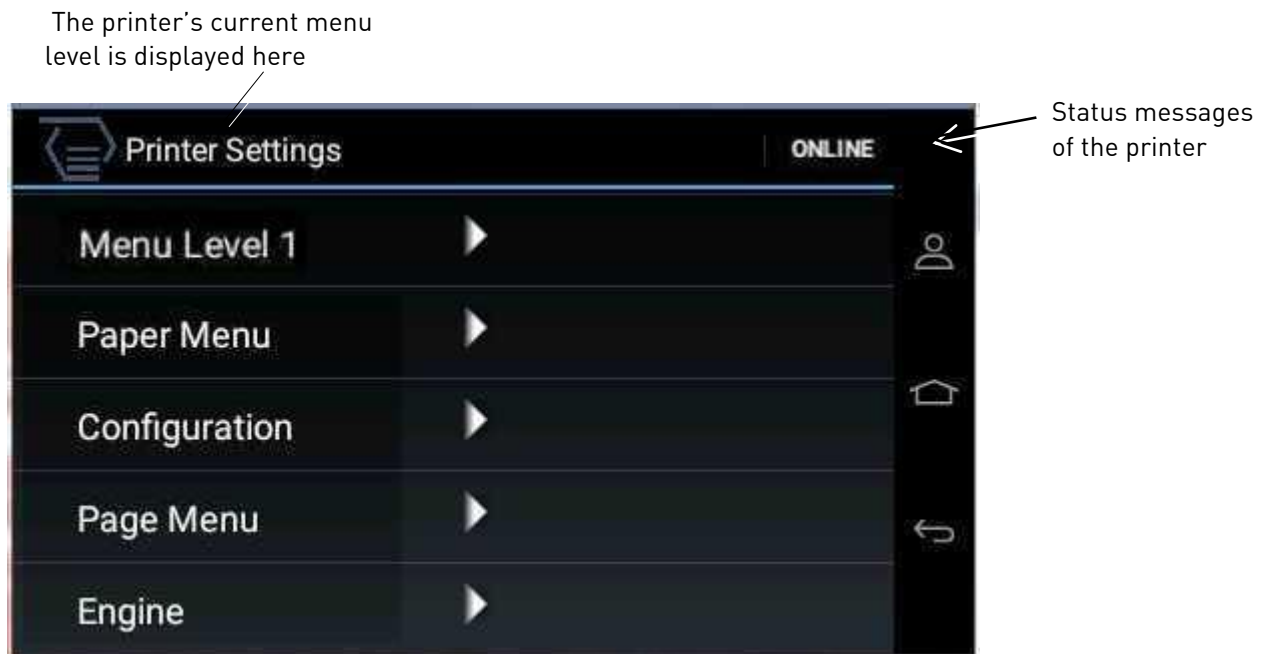


Fig. 6.2.3.a Overview Screen of the Panel Functions (Printer Settings)

On the Overview Screen you can get access to the main groups of the SOLID 52 A4 Panel Functions (just tap on the desired group with your finger).

In the following figure, the Main Groups are marked in yellow:

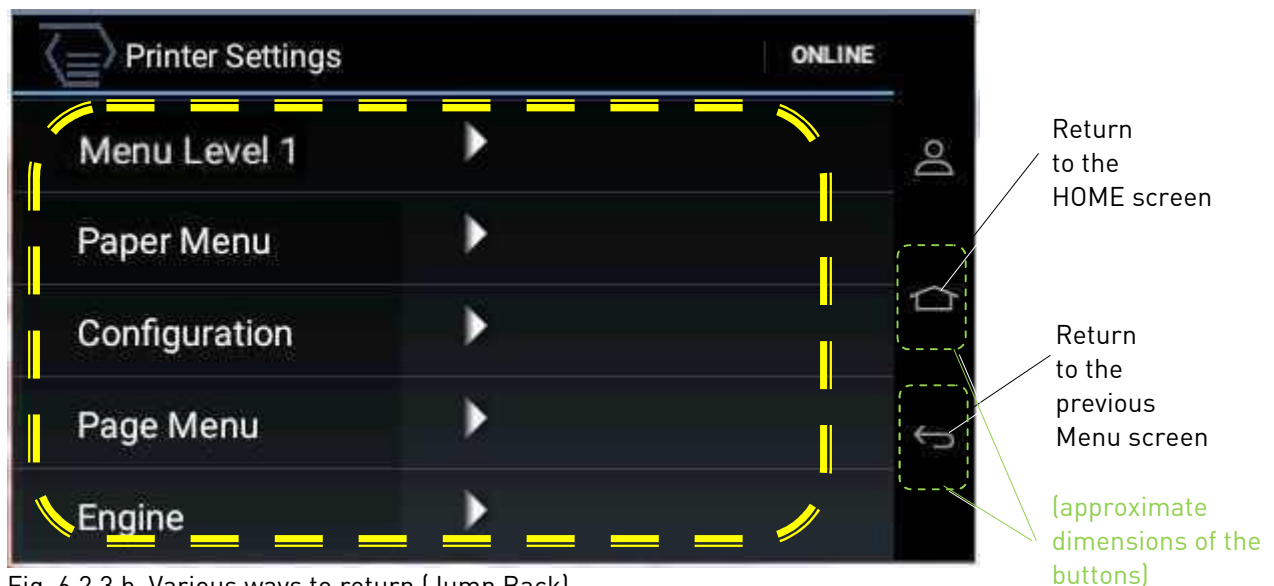


Fig. 6.2.3.b Various ways to return (Jump Back)

The **Menu structure** of the SOLID 52 A4 is arranged in different levels.

The **Menu Page** of your printer provides you a survey of the whole menu structure and its submenus:

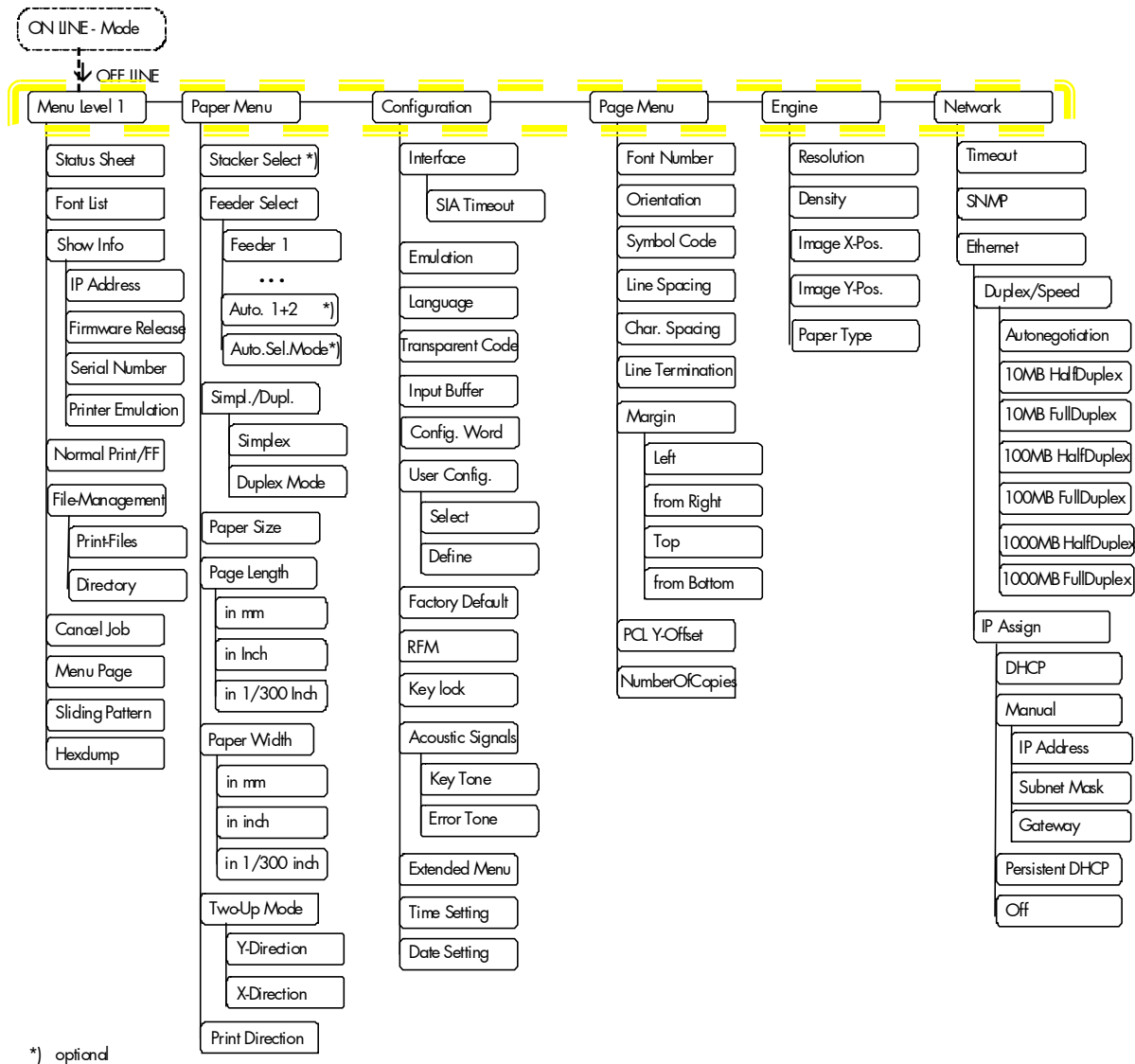


Fig. 5.2.3.c Menu Page of the SOLID 52 A4, it provides a survey of the printer menu structure

The **yellow dashed** line in the figure above **marks** the 6 **main groups** of the SOLID 52 A4 menu structure.

These 6 main groups are **selectable** on the Overview Screen directly **via finger tap on the touchscreen** of the SOLID 52A4. (More details are described in the following sections).

Hint: You can print a survey of the available panel functions. More details can be found in section 8.2 Menu Structure.

6.2.4. Turning the Printer OFFLINE

Hint:

The steps from turning the printer on and from the Home Screen down to the „Printer Settings“ menu is described in the previous sections.

② Turn the printer OFFLINE.

By touching the status message („single tap“ with the finger on the touchscreen) the printer is turned OFFLINE. Compare hint ② in the following figure.

(By the way: after finishing your settings you can turn the printer ONLINE again by (another) tap on the OFFLINE – status message.)

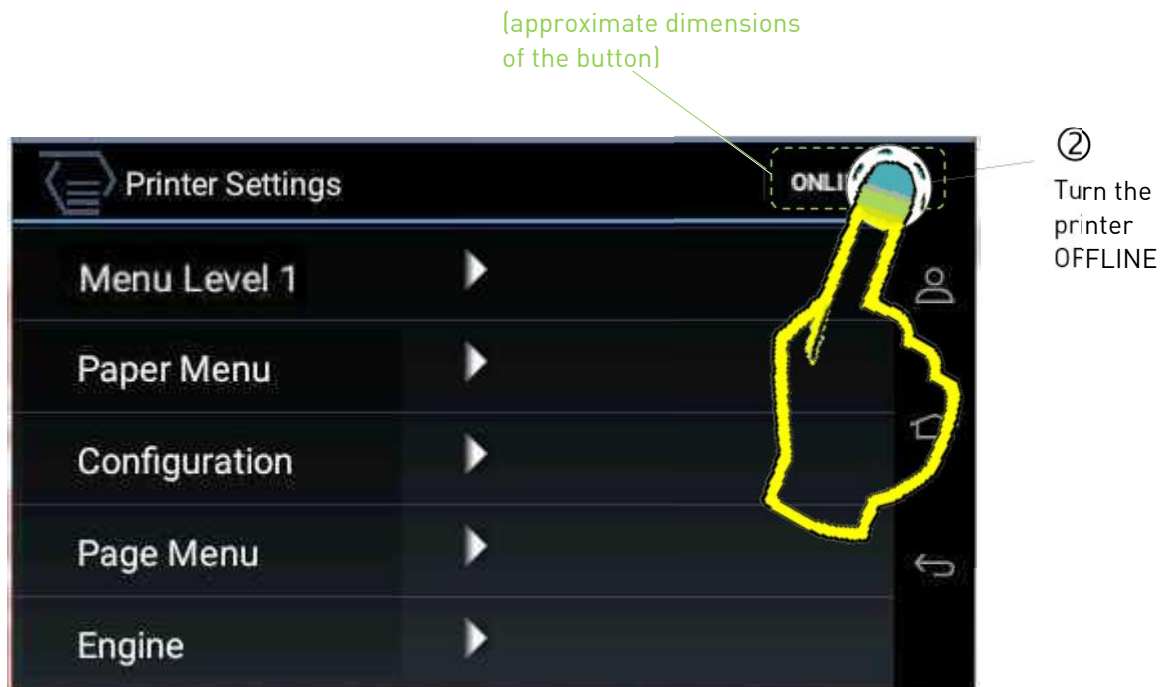


Fig. 6.2.4.a Turning the printer OFFLINE (by single tap with the finger on the touchscreen)

The printer turns to the OFFLINE mode and shows the following on the touchscreen:



Fig. 6.2.4.b Printer in the OFFLINE mode

Hint: Only if you turn the printer OFFLINE, you can select all panel functions.
 The following figure shows as an **example** the Menu Level 1 during **ONLINE** mode: all „low colored“ functions are not available / will not work:

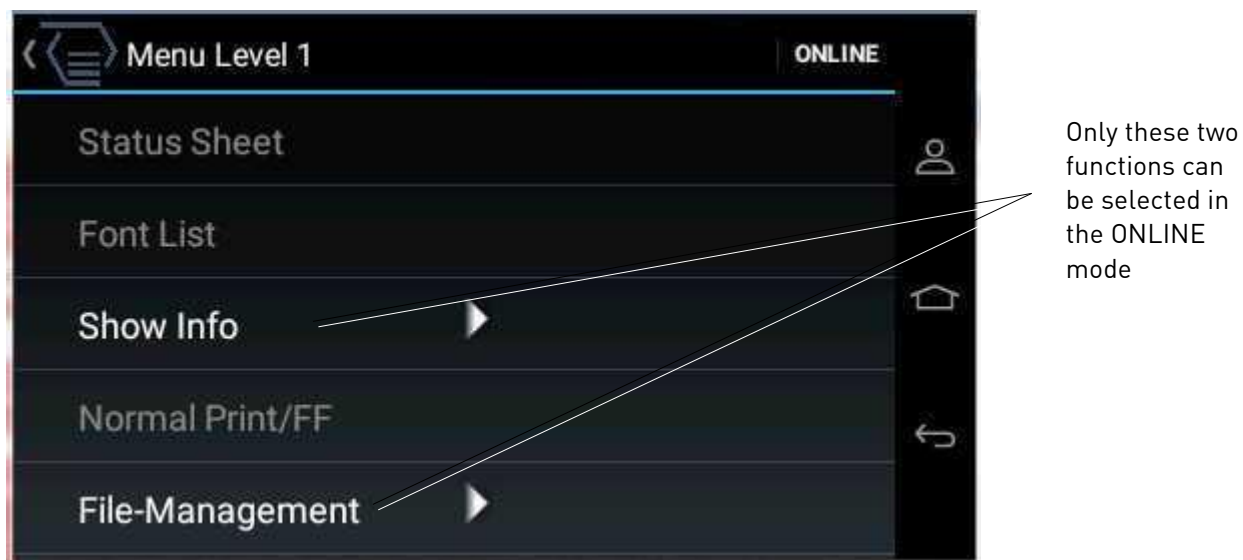


Fig. 6.2.4.c This example shows, that only a few functions can be selected in the ONLINE mode

The „Show Info“ panel function is one of the few that work in the ONLINE mode, too.
All „low colored“ functions are only available when the printer is turned OFFLINE.

6.2.5. Browsing longer Menu Lists („wipe“)

Hint:

The way down to the „Printer Settings“ menu is described in the previous sections.

The overview page of the panel functions (Printer Settings) shows five menu items („Menu Level 1“ up to „Engine“, compare the following figure).



Fig. 6.2.5.a Main menu of the panel functions (Printer Settings menu)

The list of menu items for the printer settings is even longer, the last menu item „Network“ is not displayed yet.

- ③ Touch the screen with your finger (don't lift it but hold your finger on the screen) and **slide/wipe** the finger up the touchscreen. After that you can lift your finger

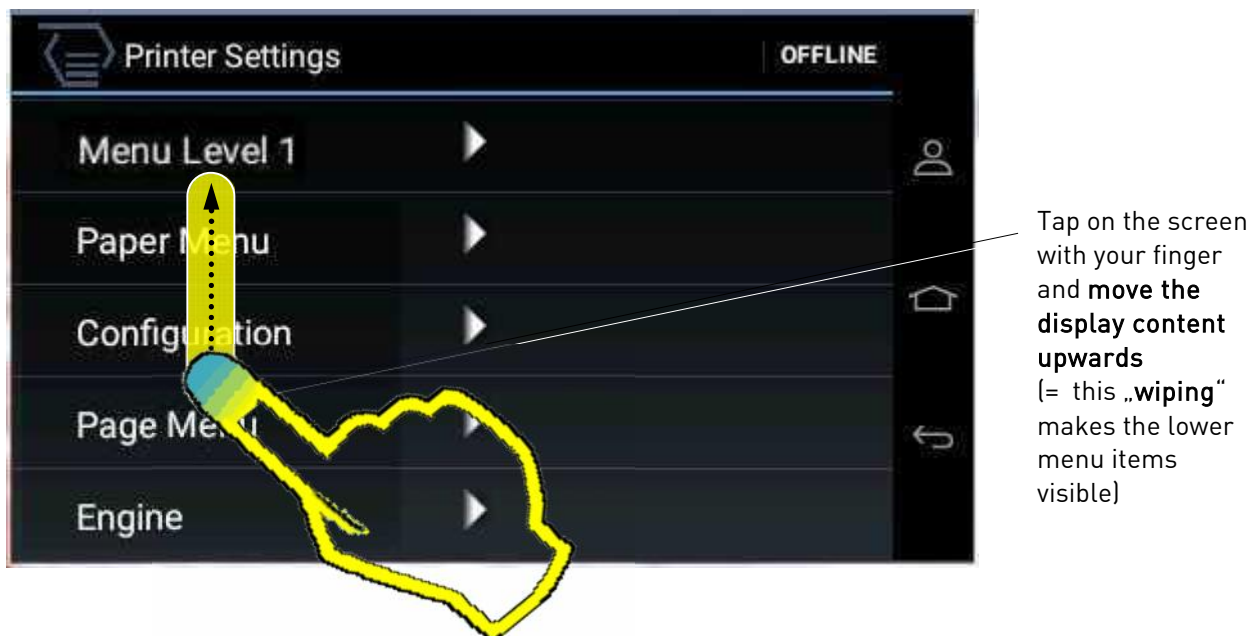


Fig. 6.2.5.b „Drag upwards“ = move the displayed menu items upwards

By the „wiping“ with your finger you „moved the displayed content upwards“: the lower menu items are visible on the touchscreen now:

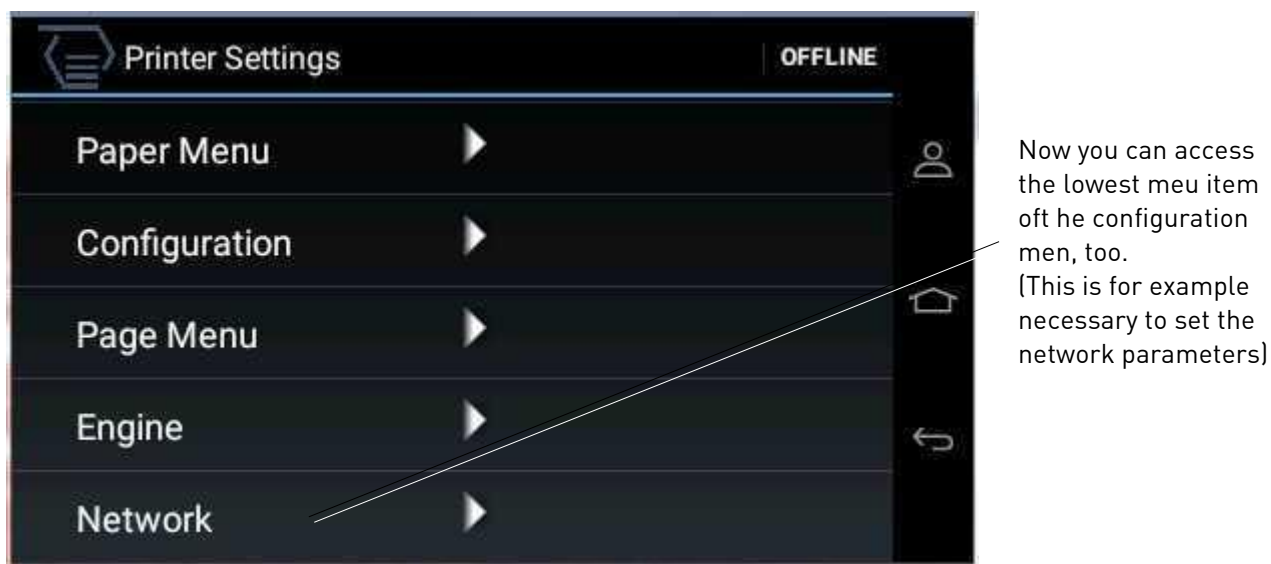


Fig. 6.2.5.c The lower menu items of the Printer Settings menu are displayed now

By „wiping“ to the opposite direction (moving your finger downwards, in this example)

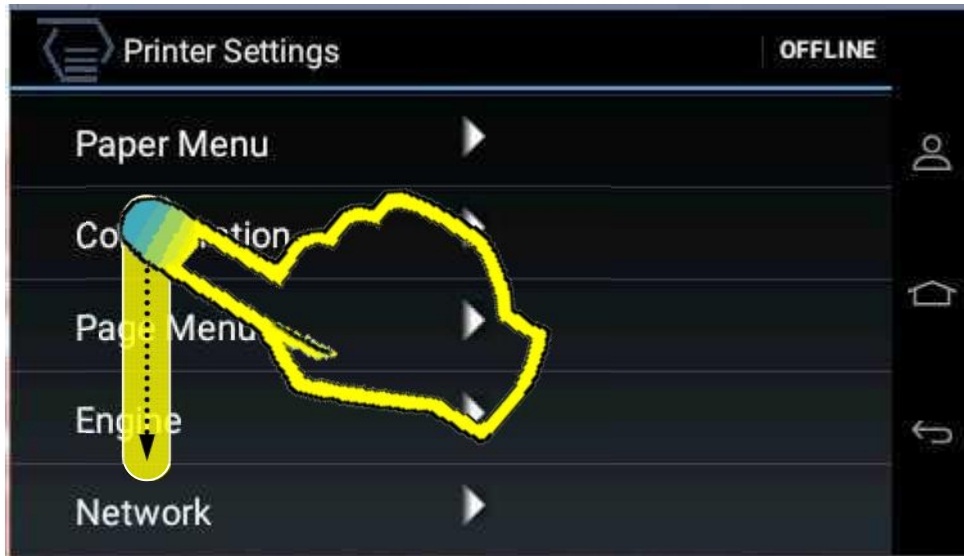


Fig. 6.2.5.d „Wiping downwards“ = this moves the displayed menu items downwards

you can make the **upper menu items visible again**:

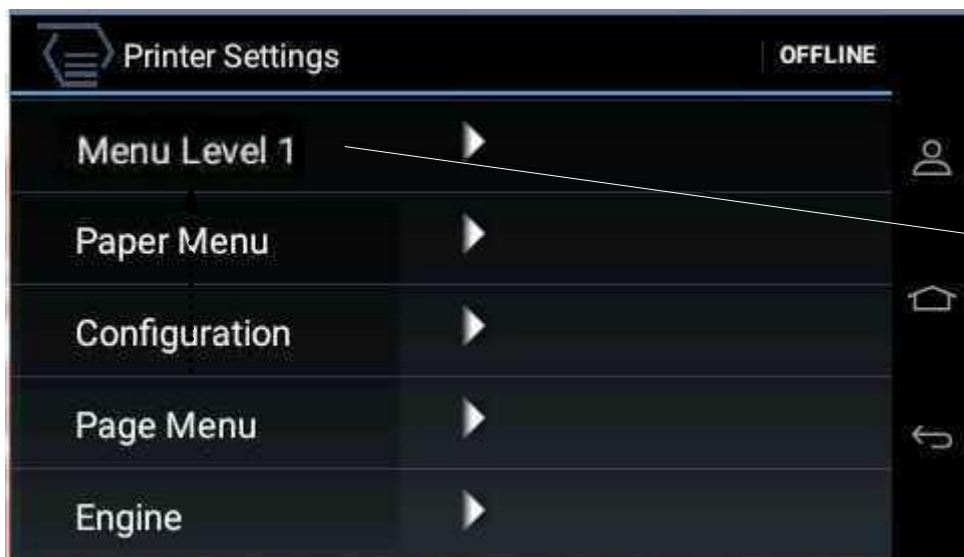


Fig. 6.2.5.e The upper menu item is visible again

6.2.6. Using Panel Functions (Example: Selecting „Show Info“)

The panel function **Show Info** shows you some basic information about your printer: the IP address, firmware version, serial number and the active printer emulation.

Hint:

The way down to the „Printer Settings“ menu is described in the previous sections.

- ③ Tap on „Menu Level 1“ to select the submenu.
(The sensitive area for selecting Menu Level 1 reaches over approx. the entire width of the screen. In order to clarify this, a green rectangle was drawn into the following figure subsequently.)



Fig. 6.2.6.a Selecting Menu Level 1 [tap on the touchscreen with the finger]

The functions of Menu Level 1 are displayed:

- ④ Tap on „Show Info“ to select the submenu.

At this position is provided, where in the menu structure you currently are



Fig. 6.2.6.b Tap on „Show Info“

- ⑤ The IP address, the firmware version, the serial number and the active printer emulation is displayed on the touchscreen:

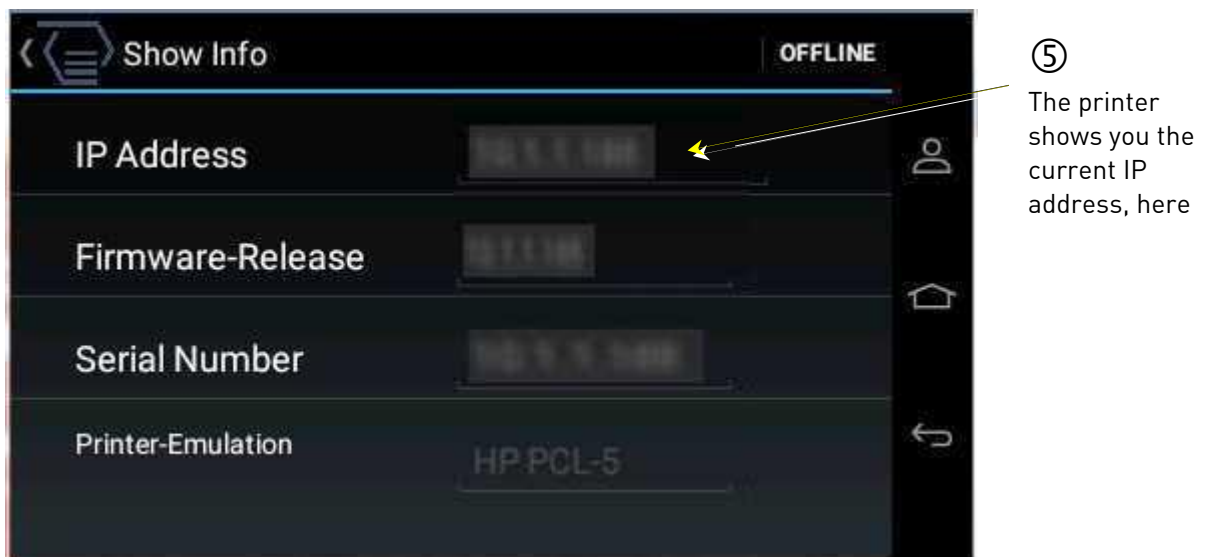


Fig. 6.2.6.c Displaying some printer information

Hint:

Further information about the IP address setting and about connecting the printer to a network can be found in the following sections.

- ⑥ Tap on one of the three buttons, to jump back to the previous menu pages:

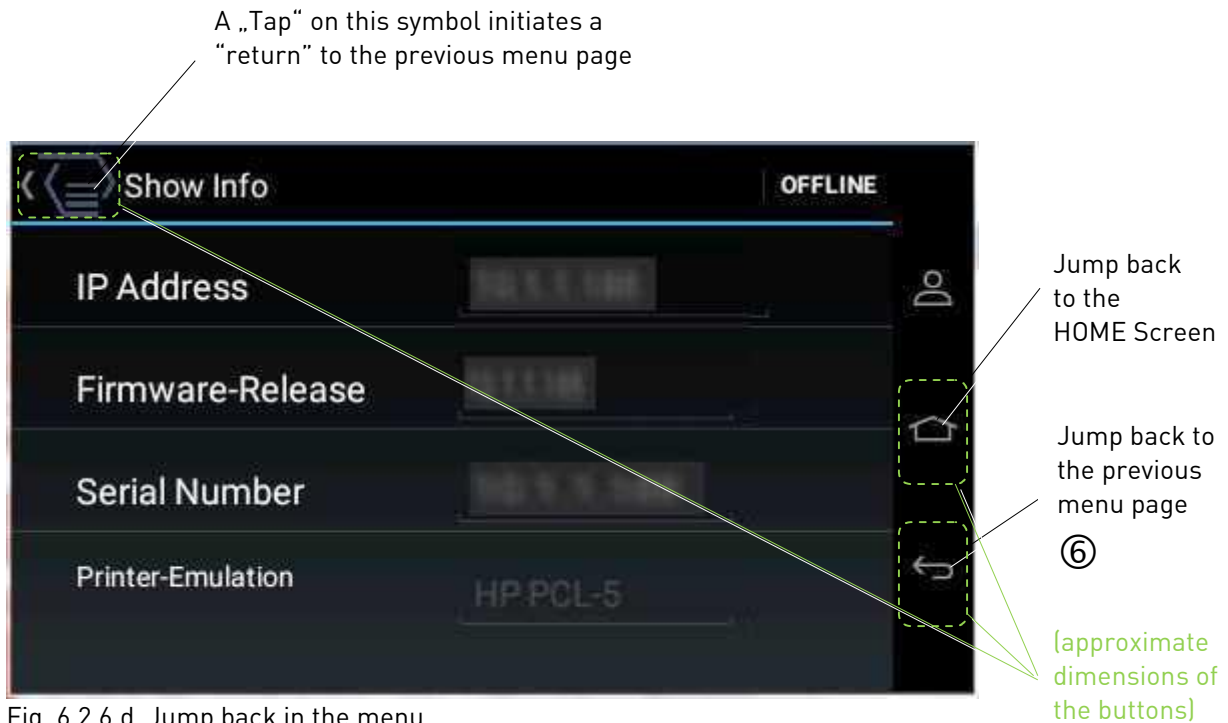


Fig. 6.2.6.d Jump back in the menu

Alternatively, you can directly turn the printer to ONLINE:

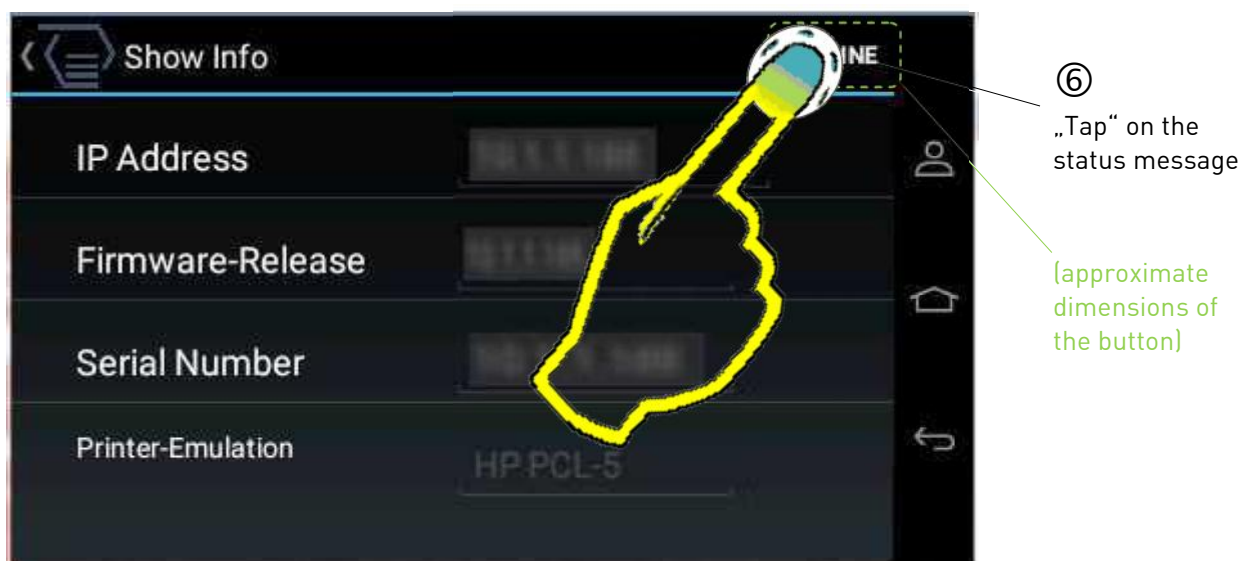


Fig. 6.2.6.e Alternative: turning the printer ONLINE again

6.2.7. „Browsing“ Popup Selection Lists (Example: Language Selection)

- ① Please make sure that the printer is in OFFLINE mode.
(By a „tap“ on the status message you can turn the printer „OFFLINE“ and also back again to „ONLINE“, compare section 6.2.4).

Hint:

The way down to the „Printer Settings“ menu is described in the previous sections.

- ② Tap on „configuration“ to open the configuration menu:

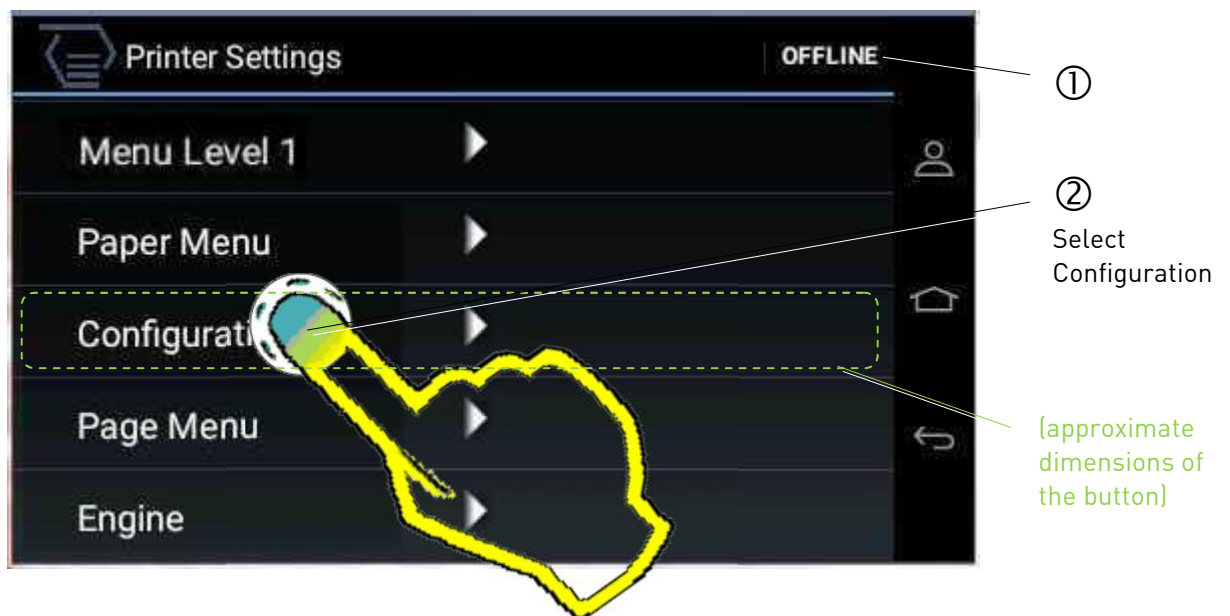


Fig. 6.2.7.a Select „Configuration“ from the main menu

In the Configuration menu the current language for the display messages and the status sheet is displayed.

In the following example the language english was preset:

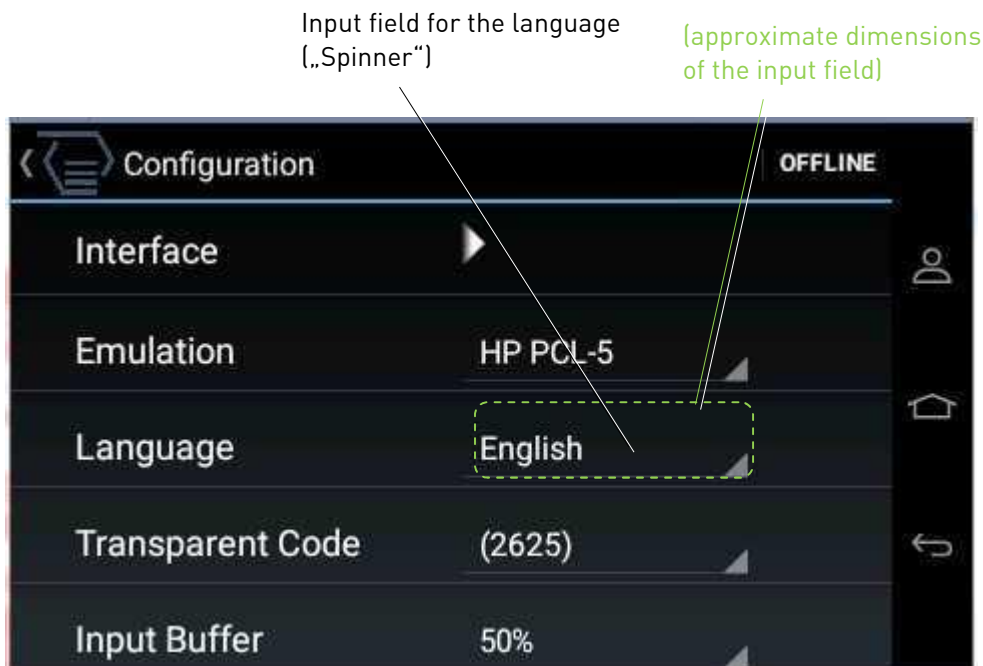


Fig. 6.2.7.b The current Language setting is shown in the configuration menu

You can change the language for the display messages and the Status Sheet etc. as follows:

- ③ Tap the input field for the language („Spinner“)

Note: **hold your finger on the screen, do not lift the finger !**

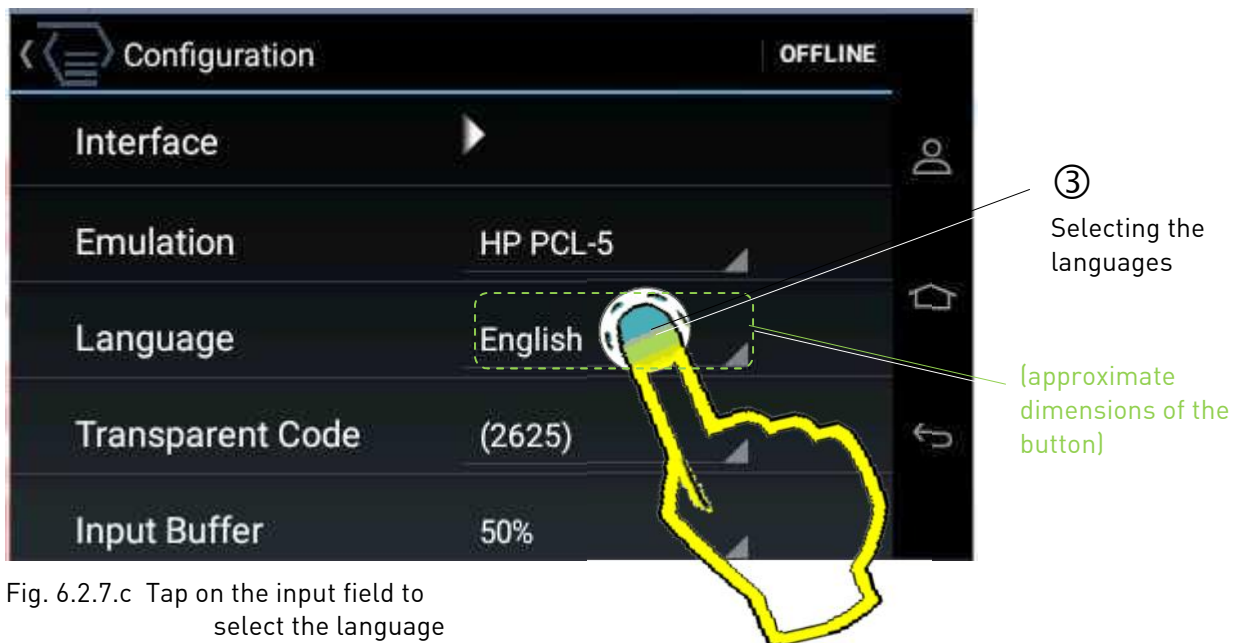


Fig. 6.2.7.c Tap on the input field to select the language

The Selection List for the languages “pops up”:

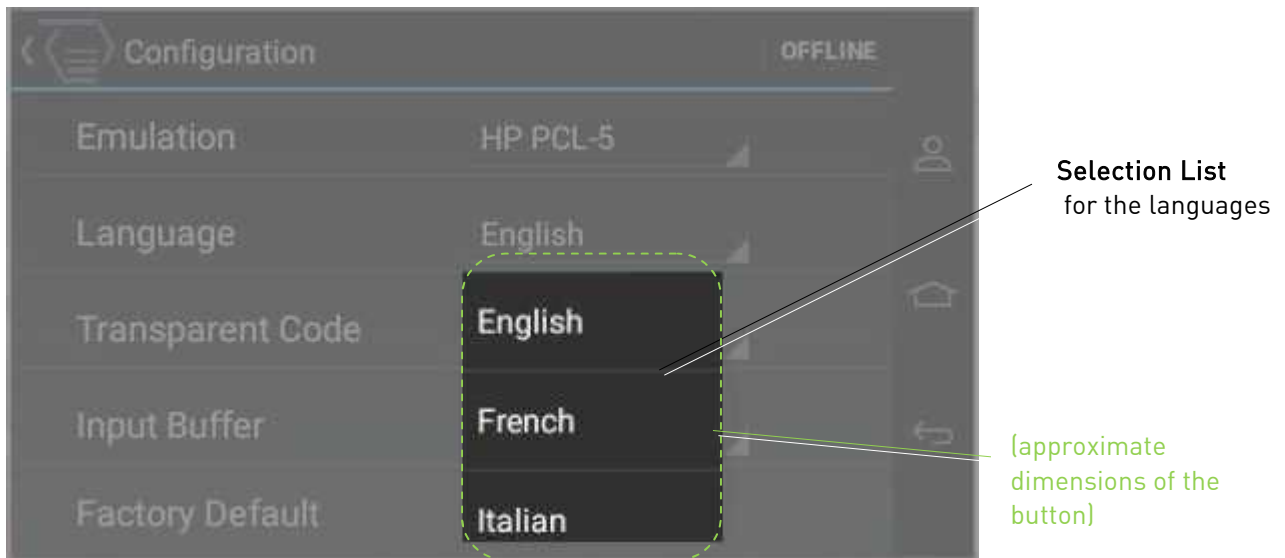


Fig. 6.2.7.d Selection List for the languages

A partial view including 3 languages is displayed, all other languages become visible via „**browsing**“ (scrollview) through the list:

- ④ For instance, **shift your finger to the upper end** of the Selection List (as shown in the following figure). This direction of movement enables you to browse to the upper items of the list („scroll“).

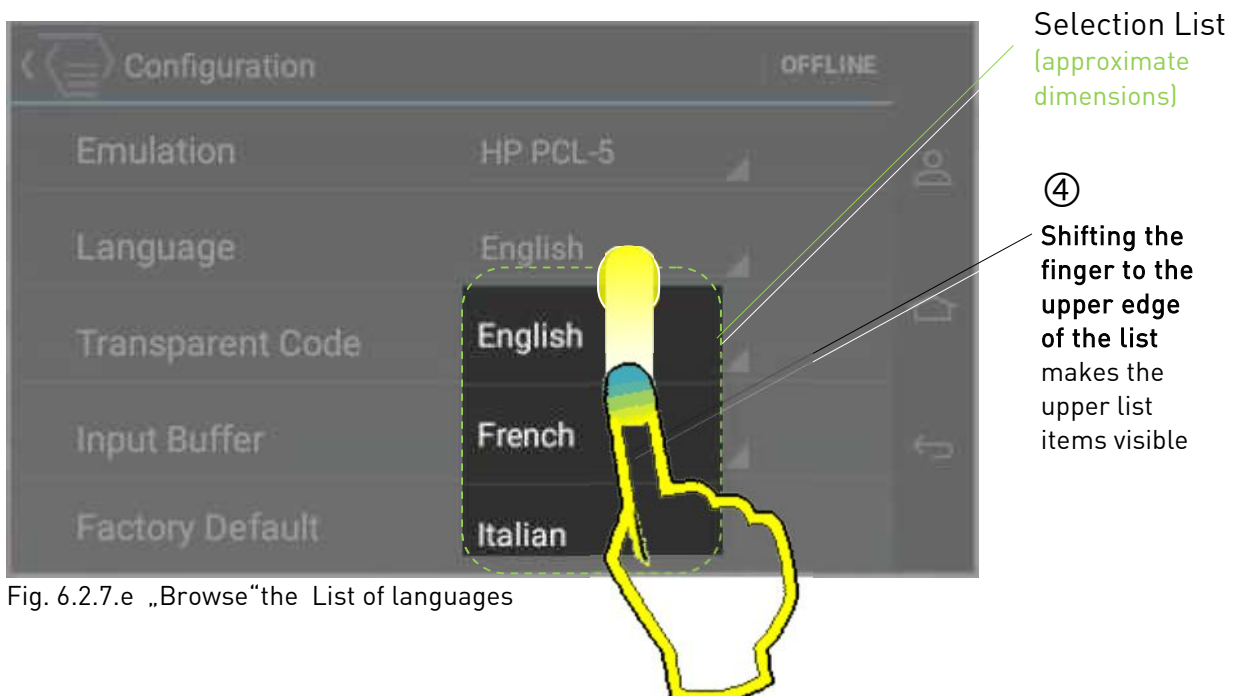


Fig. 6.2.7.e „Browse“ the List of languages

When shifting the finger downwards on the selection list, this enables you to see the lower items of the list. (**Tip: Keep your finger on the screen, don't lift it until the desired language is found**).

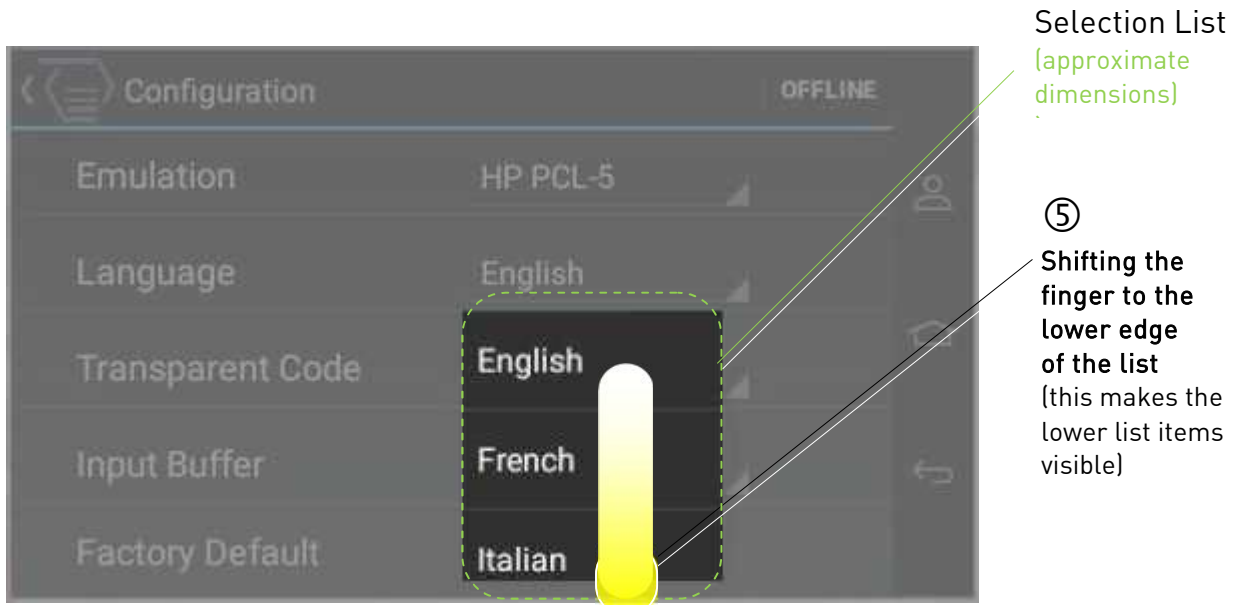


Fig. 6.2.7.f „Browsing downwards“ : scroll through the list of languages

- ⑥ Please **lift** your Finger, **when the desired language is displayed under your finger**. The currently selectable language is displayed **brighter**:

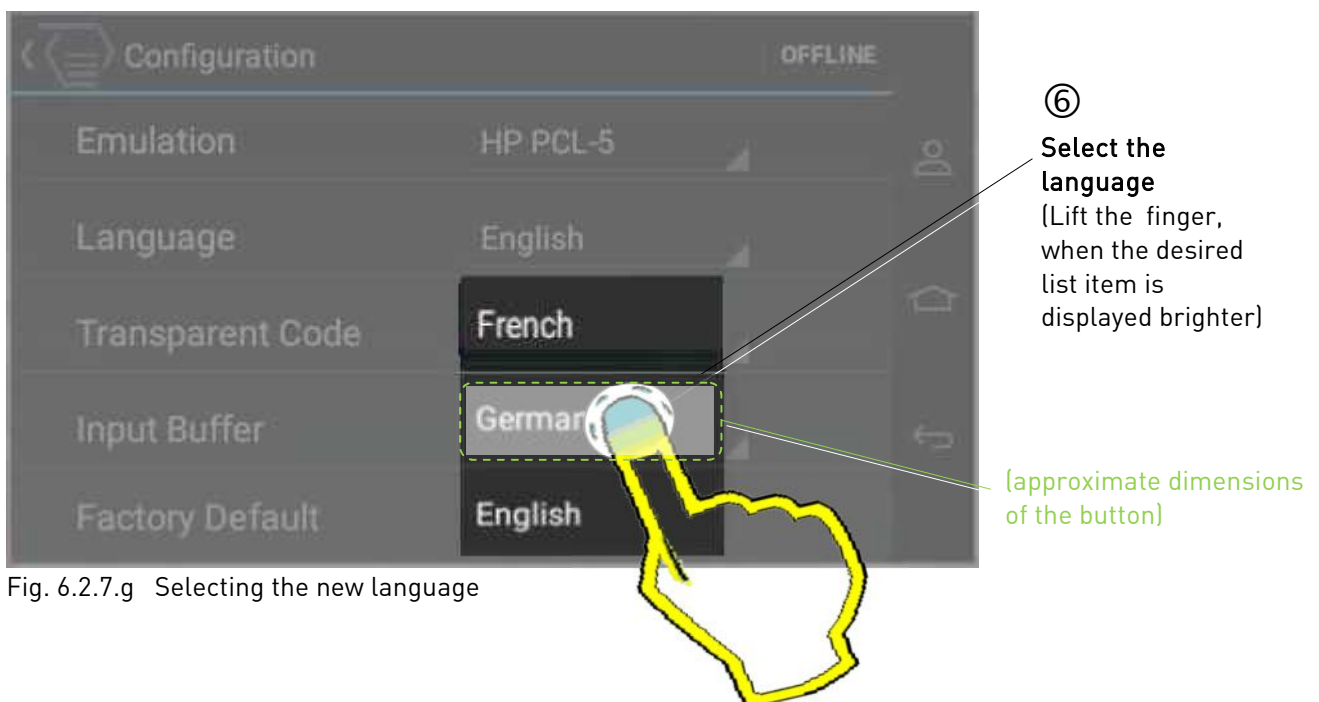


Fig. 6.2.7.g Selecting the new language

Hint: The new setting value for the language is saved as setup value by the printer automatically. (Message „Configuration saved“).

- ⑦ For your return from the submenu level there are several ways:

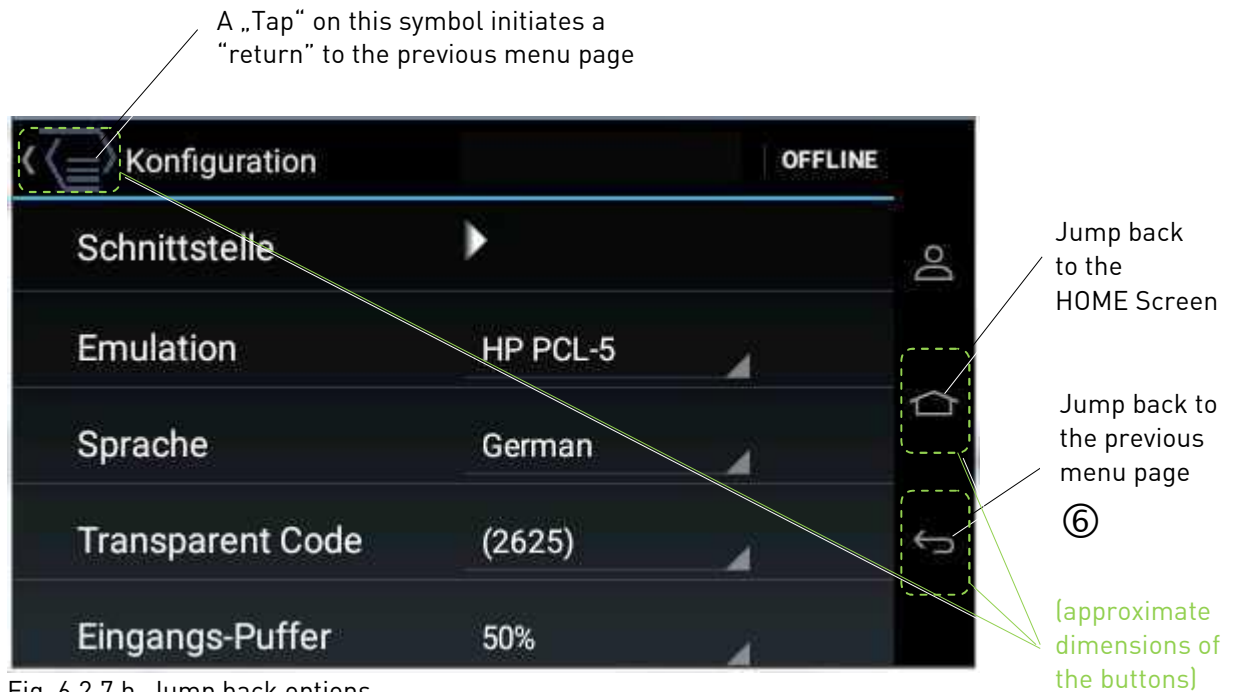


Fig. 6.2.7.h Jump back options

As an alternative you can directly turn the printer ONLINE:

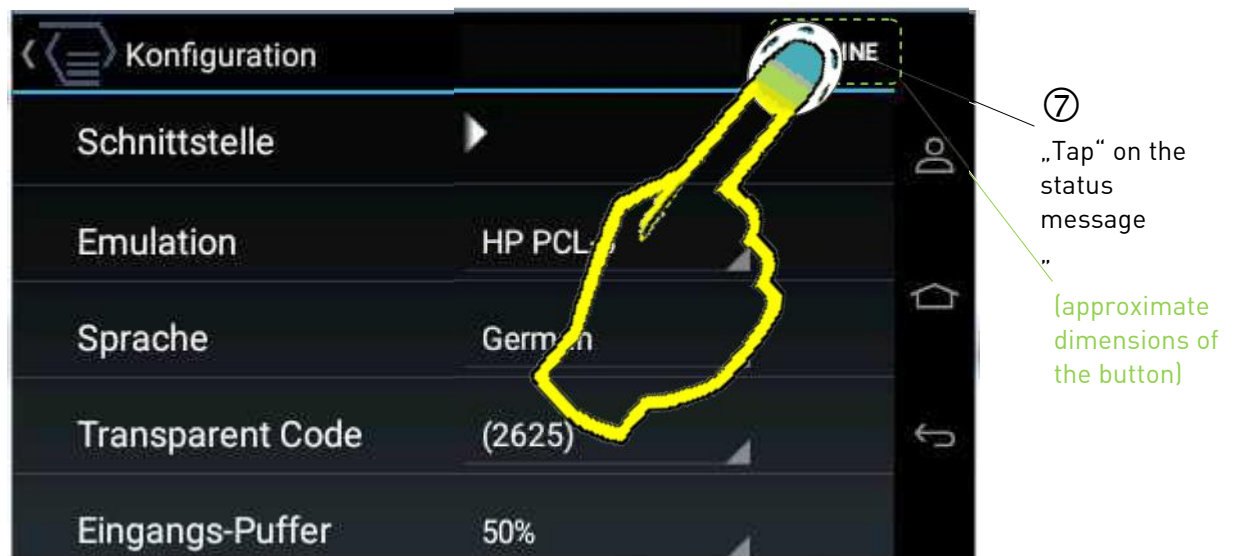


Fig. 6.2.7.i Turning the printer ONLINE again

6.2.8. Using Wheel Pickers

6.2.8.1. Step by Step until the „Date Setting“ Panel Function

After turning on the printer (and the initialization) the Home Screen (Startup Screen) is displayed on the touchscreen:

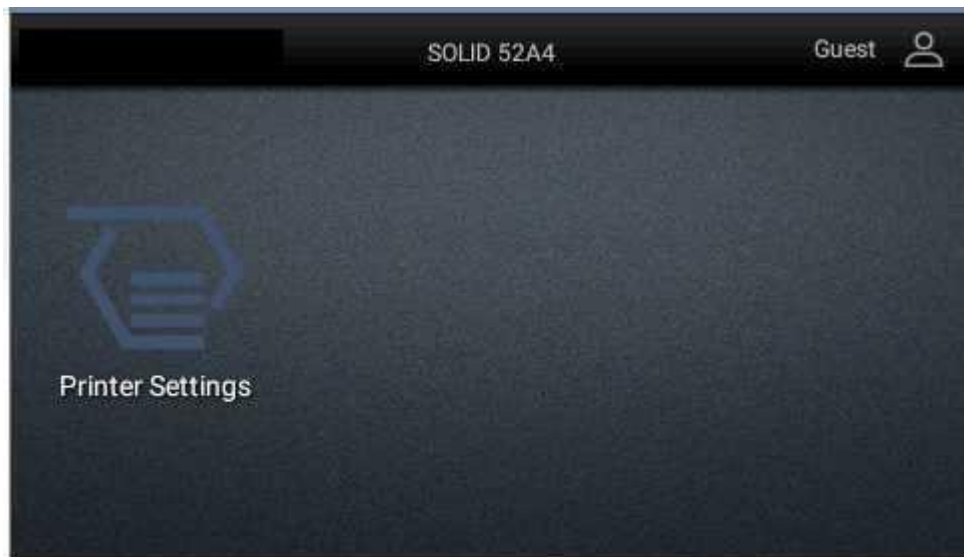


Fig. 6.2.8.1.a The Home screen is displayed on the touchscreen of the SOLID 52A4

- ① „Tap“ on the **MICROPLEX** symbol with the caption „Printer Settings“. This enables you to **access the Panel Functions of the printer**.

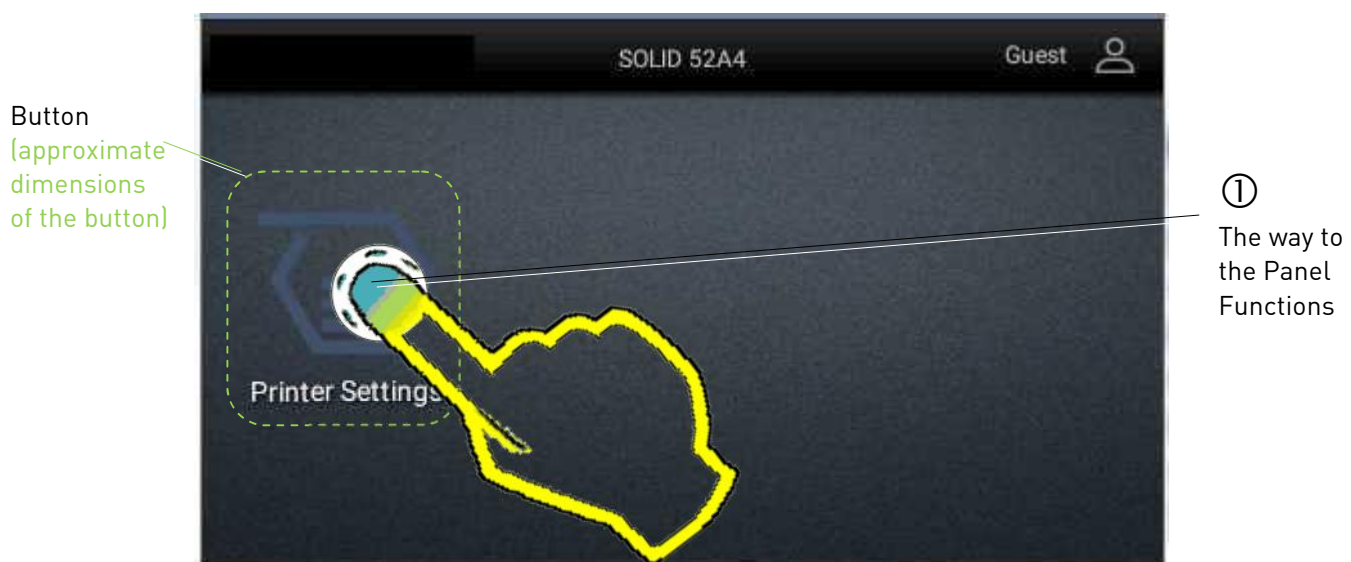


Fig. 6.2.8.1.b Calling up Panel Functions (tap on the touchscreen with your finger)

② Turn the printer **OFFLINE**.

By touching the status message („single tap“ with the finger on the touchscreen) the printer is turned OFFLINE. Compare hint ② in the following figure.

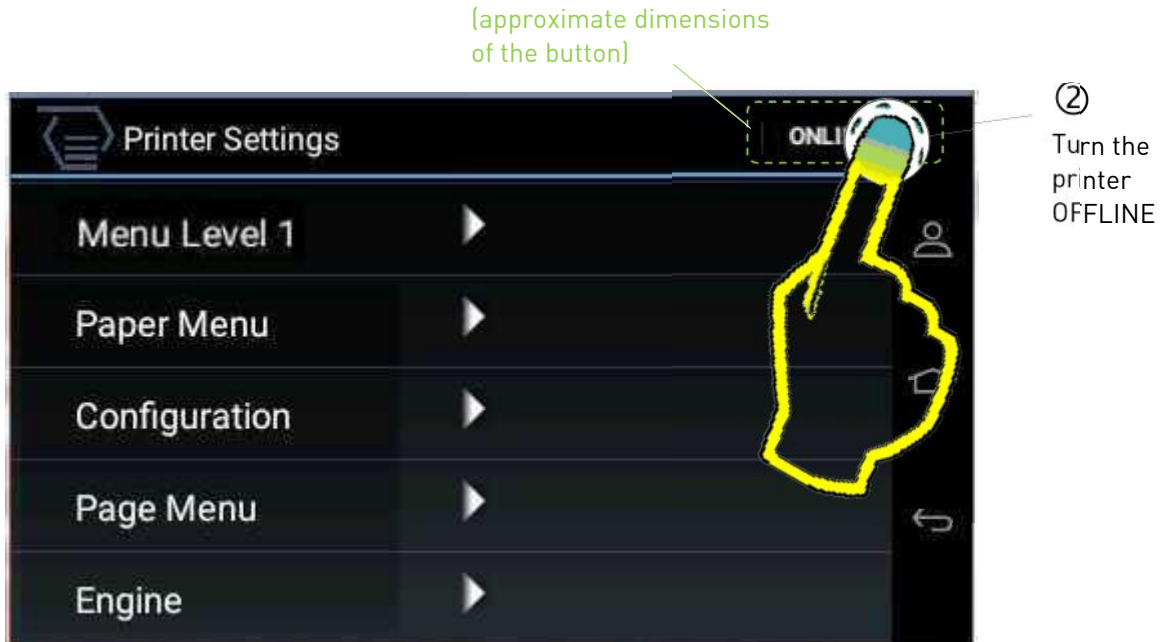


Fig. 6.2.8.1.c Main menu of the Panel Functions (Printer Settings menu)
First of all turn the printer OFFLINE (tap on the touchscreen with your finger)

The printer switches to the OFFLINE mode and displays it on the touchscreen:

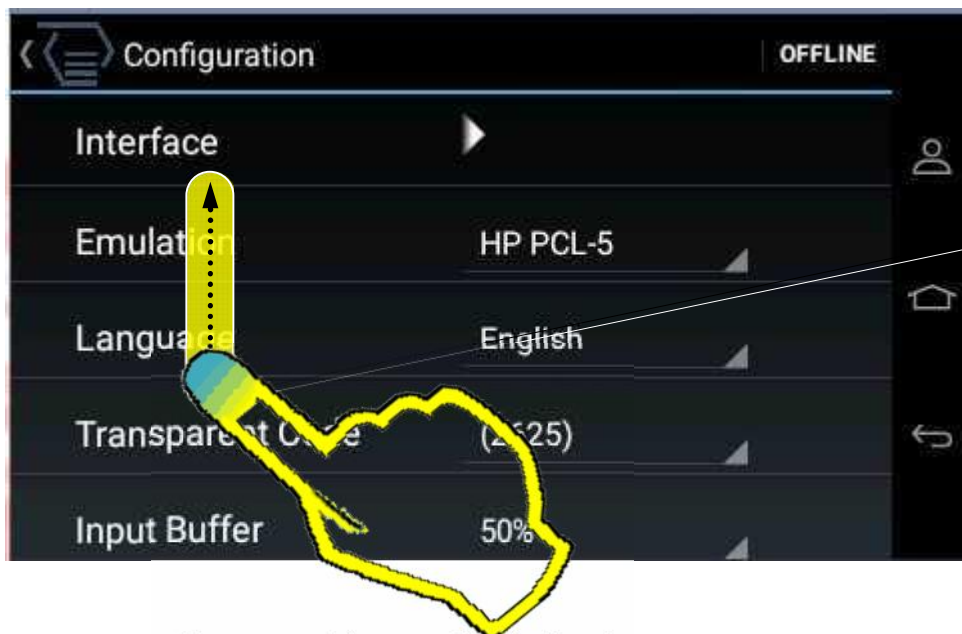
③ Tap on „Configuration“ to access the Configuration menu:



Fig. 6.2.8.1.d Tap on Configuration in the Main Menu

④ Find the „Date setting“ function in the **Configuration menu list** by „wiping“:

Touch the screen with your finger (don't lift it but hold your finger on the screen) and slide/**wipe** the finger up the touchscreen. After that you can lift your finger



④ Tap on the screen with your finger and **move the display content upwards** (= this „wiping“ makes the lower menu items visible)

Fig. 6.2.8.1.e „Drag upwards“ = move the displayed menu items upwards

By the „wiping“ with your finger you „moved the displayed content upwards“: the lower menu items are visible on the touchscreen now:



Now you can access the lowest menu item of the configuration menu, too. (This is for example necessary to set the Date values, see next section)

Fig. 6.2.8.1.f Lower menu items of the Configurations menu

6.2.8.2. Example: Date setting via Wheel Picker

Hint:

The way down to the „Configuration“ menu is described in the previous sections.

- ⑤ Tap on the **input field**, to change the **Date** setting:

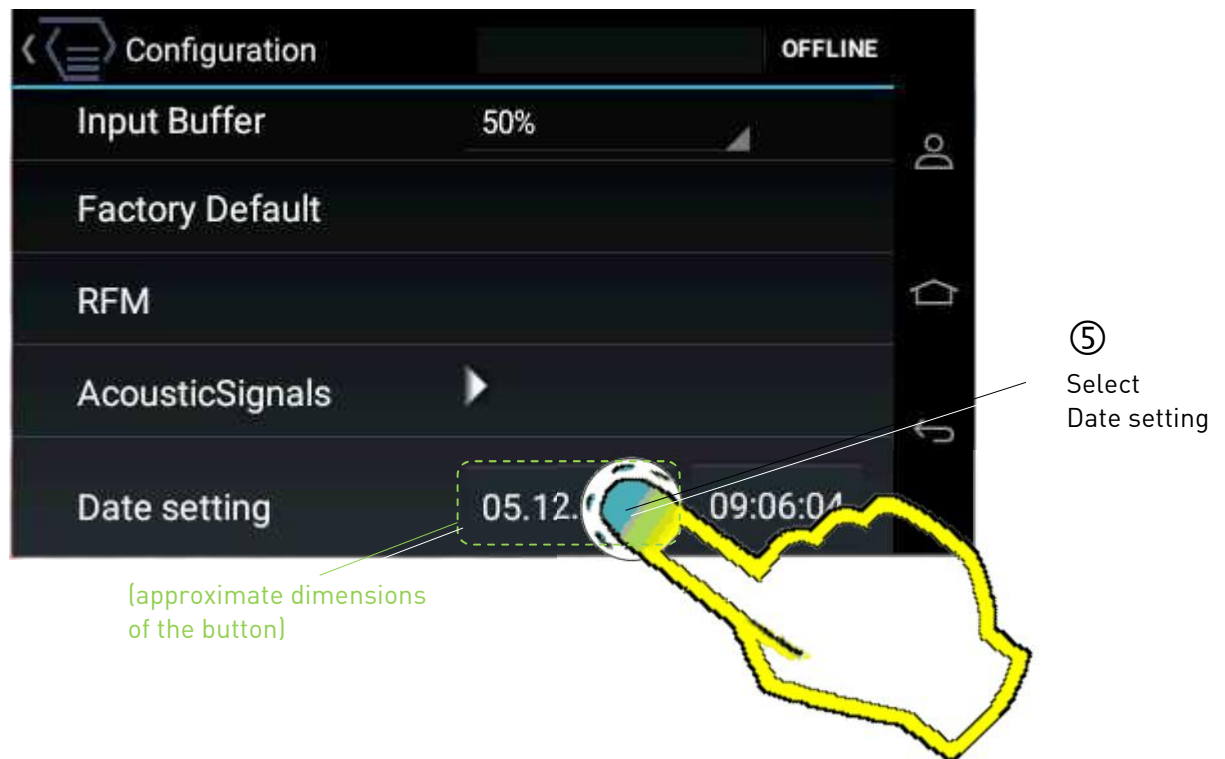


Fig. 6.2.8.2.a Tap on the input field for Date setting (item of the Configuration menu)

The **selection lists for Month, Day and Year** look like the **spinning wheels of a slot machine (Wheel Picker)**.

- ⑥ **Wipe/slide** with your finger over the **spinning wheel for the day** (this example describes how to set the day):

Detailed description:

Tap on the wheel picker (selection list) for the day with your finger and wipe the finger up the touchscreen, f.e. (as shown in the following figure).

By such „wipe movements“ you can „roll“ to the desired day value. (When using such wheel pickers your finger doesn't has to touch the screen the whole time. Instead you can "increase the rotation" of the spinning wheel by multiple wiping gestures).

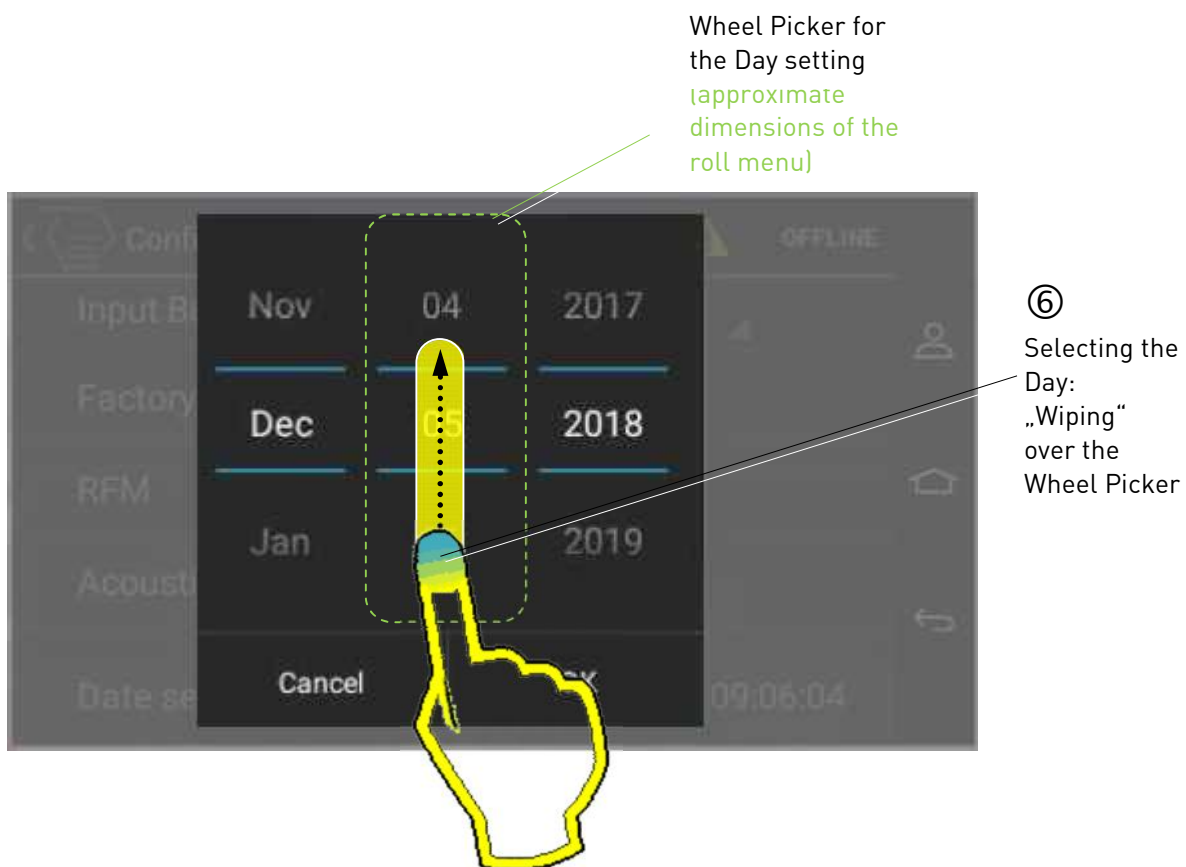


Fig. 6.2.8.2.b Set the day value by „wiping“ over the day - „Wheel Picker“
(= Setting Wheel)

- ⑦ Wipe/slide over the wheel picker until the **desired day** is displayed in the center (between the two lines):

- ⑦ The new day setting value is displayed here

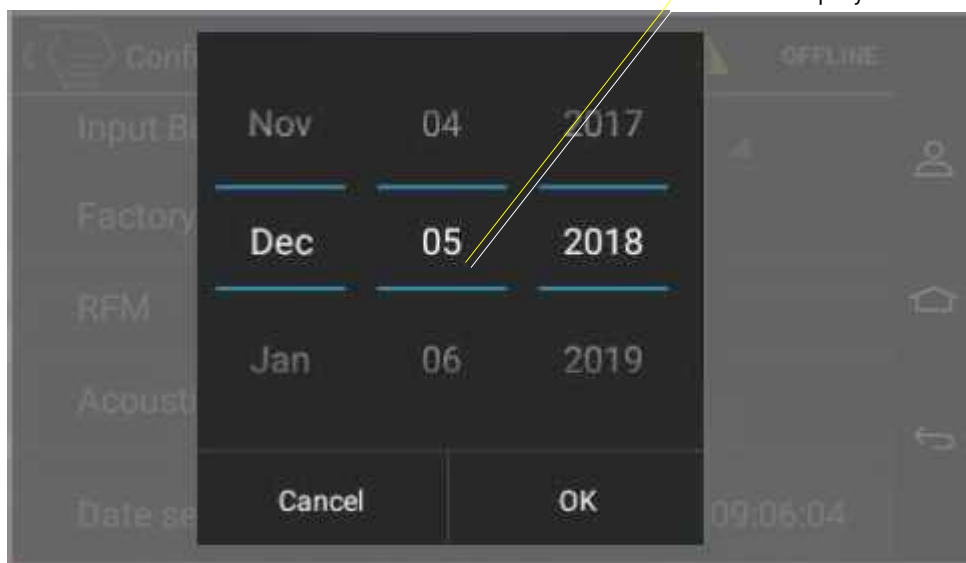


Fig. 6.2.8.2.c New setting value for the day

- ⑧ Adjust the month and year value, too (if necessary):

Set the Month
(approximate dimensions
of the roll menu)

Set the Year
(approximate dimensions
of the roll menu)

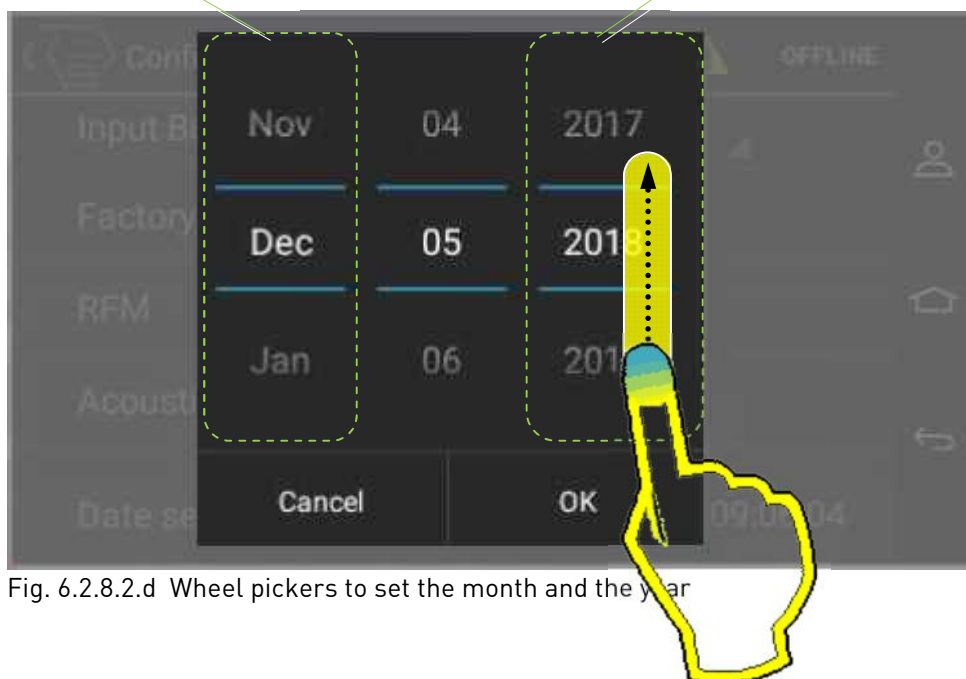


Fig. 6.2.8.2.d Wheel pickers to set the month and the year

⑨ Tap on OK to confirm the new settings.

(If you don't want to change the settings, you can tap the Cancel button.)

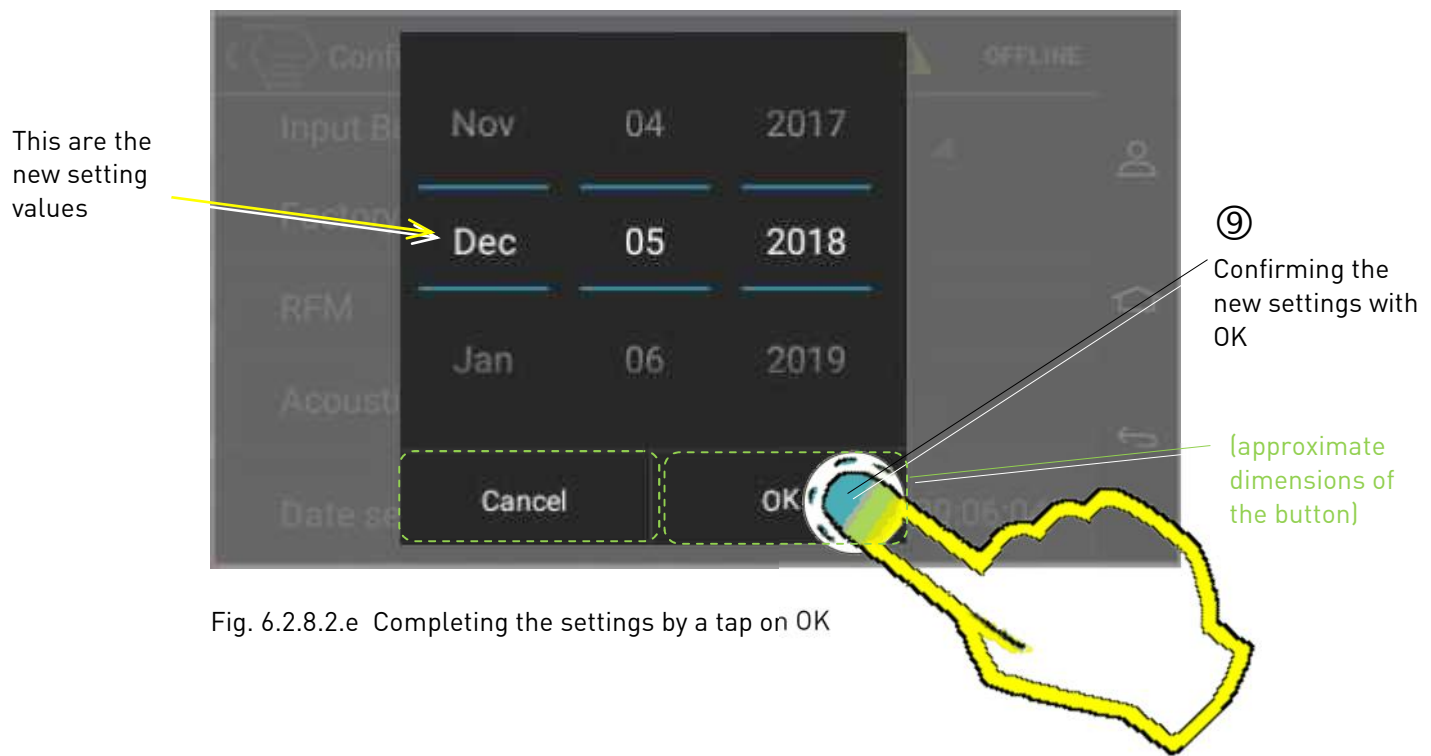


Fig. 6.2.8.2.e Completing the settings by a tap on OK

Next, you can set the correct time (or jump back in the menu) or switch the printer directly to ONLINE.
(Details can be found in the next section.)

6.2.8.3. Example: Setting the Time

- ⑤ Tap on the **Input field for the Time setting**, to change the time settings:

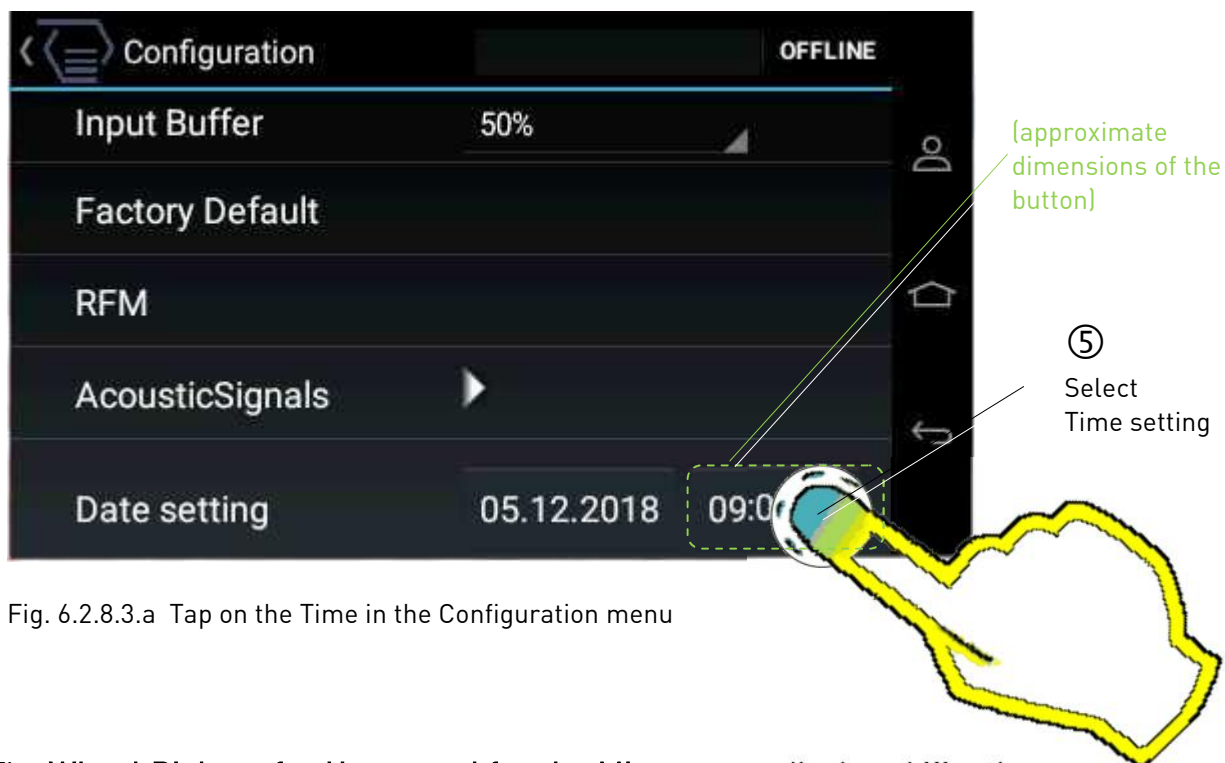


Fig. 6.2.8.3.a Tap on the Time in the Configuration menu

The **Wheel Pickers for Hours and for the Minutes** are displayed like the **Spinning wheels of a Slot Machine**.

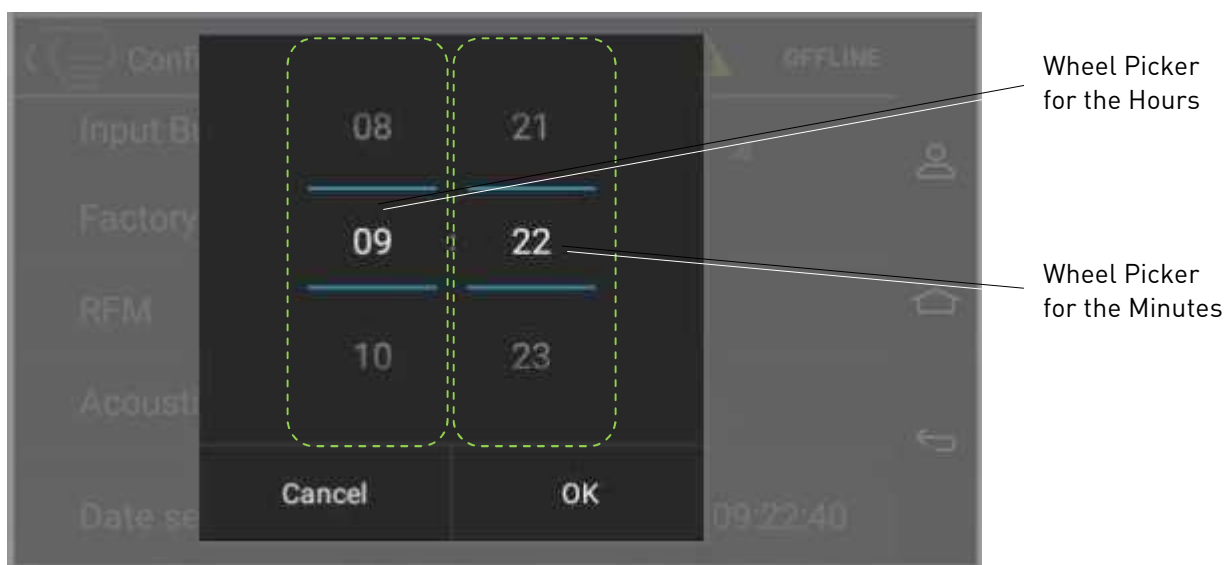


Fig. 6.2.8.3.b Wheel Pickers for Hours and Minutes (Spinning Wheels)

- ⑥ **Wipe/slide** with your finger over the **spinning wheel for the minutes**, to change the minute setting:

Detailed description:

Tap on the wheel picker (selection list) for the minutes with your finger and wipe the finger up the touchscreen, f.e. (as shown in the following figure).

By such „wipe movements“ you can „roll“ to the desired minute value. (When using such wheel pickers your finger doesn't has to touch the screen the whole time. Instead you can “increase the rotation” of the spinning wheel by multiple wiping gestures).

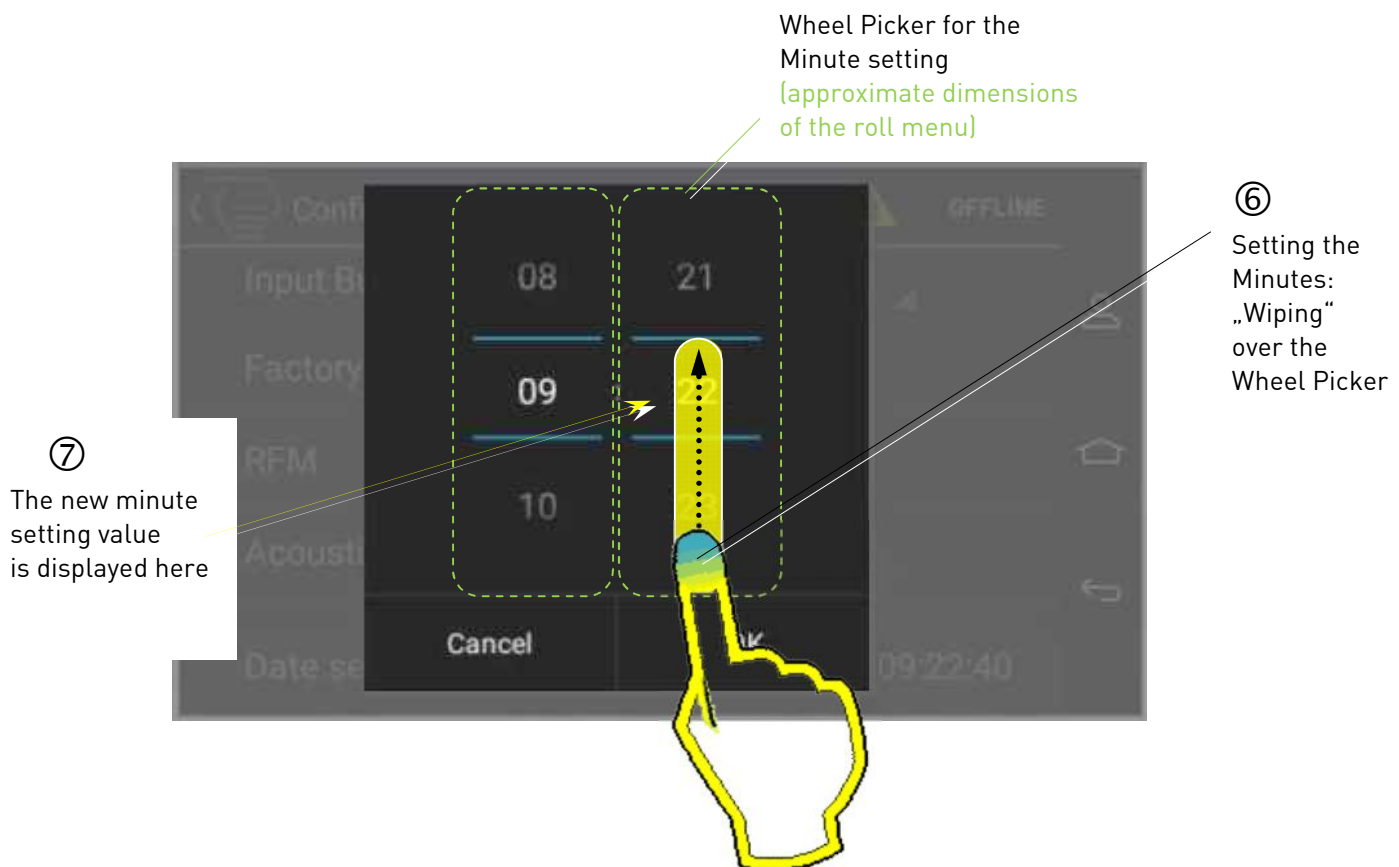


Fig. 6.2.8.3.c Setting the Minute value (by „wiping“ over the Minute-„Wheel Picker“)

- ⑦ Wipe/slide over the wheel picker until the desired minute is displayed in the center (between the two lines, compare the figure above).

- ⑧ Adjust the hour value, too (if necessary):

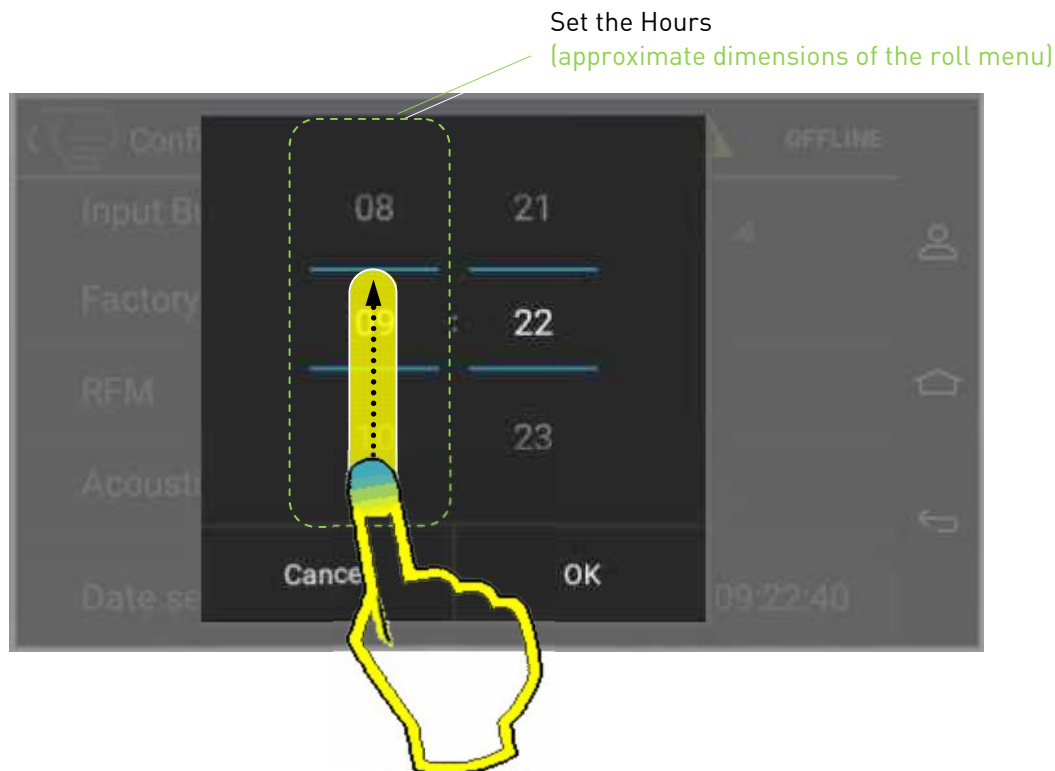


Fig. 6.2.8.3.d Setting the hours (by „wiping“ over the hours-„Wheel Picker“)

- ⑨ Tap on OK to confirm the new settings.

(If you don't want to change the settings, you can tap the Cancel button.)

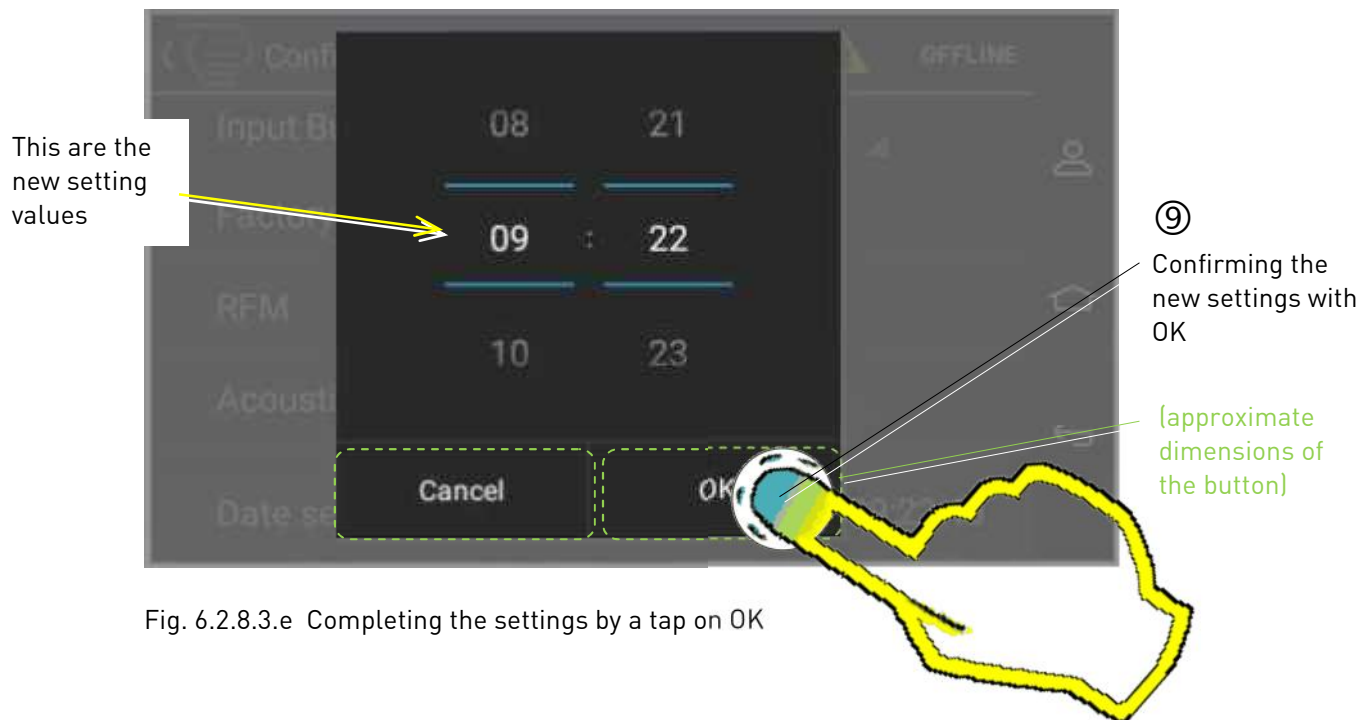


Fig. 6.2.8.3.e Completing the settings by a tap on OK

- ⑩ For your return from the submenu level there are several ways:

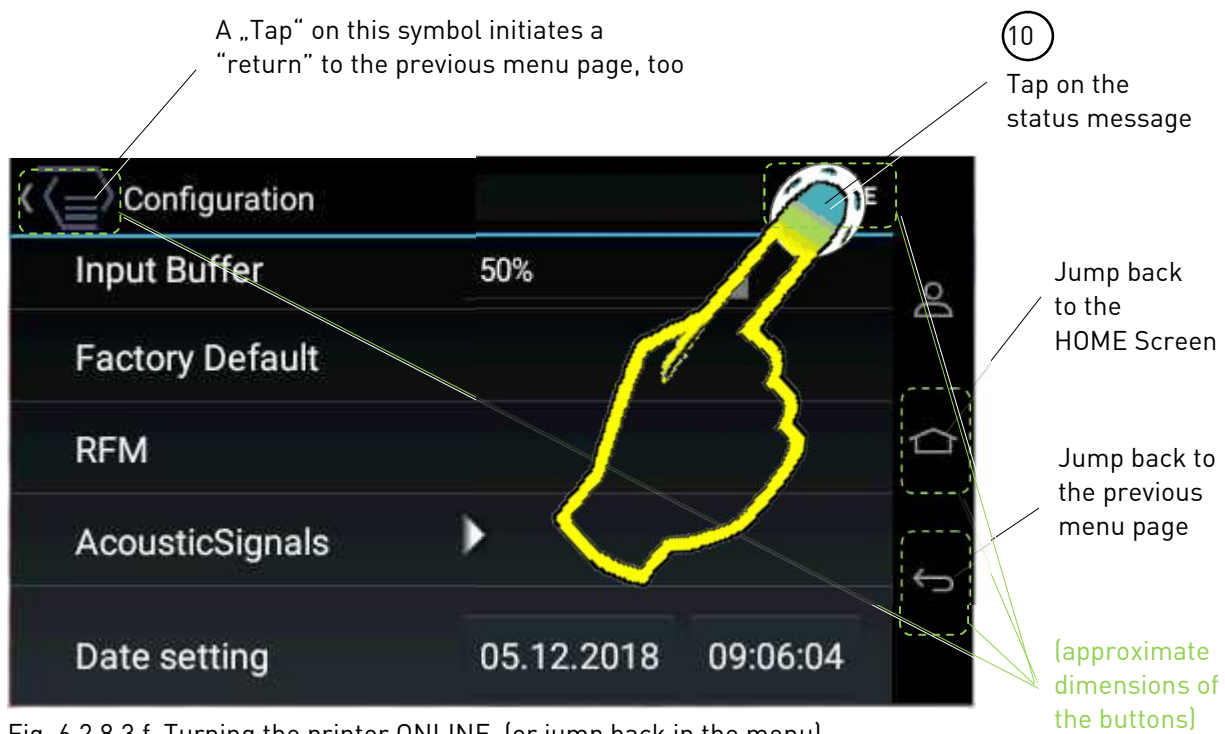


Fig. 6.2.8.3.f Turning the printer ONLINE (or jump back in the menu)

6.2.9. Using Toggle Switches

6.2.9.1. Example: Turning on the Error Ton

Hint:

The way down to the „Configuration“ menu is described in the previous sections.

- ⑤ To change the setting value please **tap** on the **input field** for the **Acoustic Signals** (located in the Configuration menu):

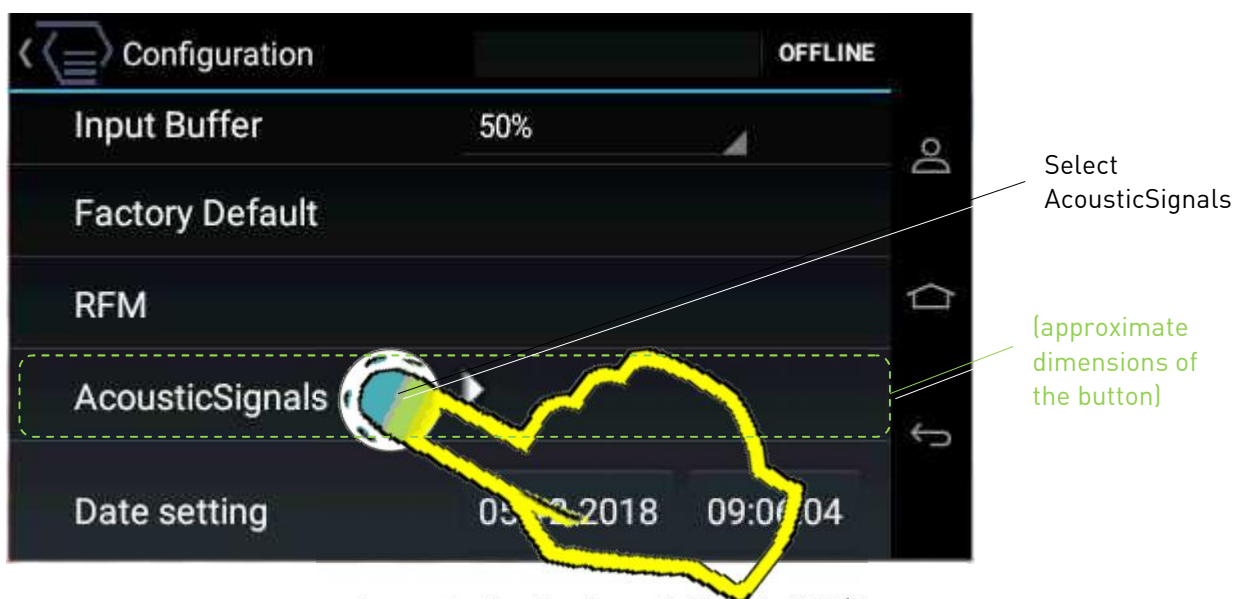


Fig. 6.2.9.1.a Selecting the submenu for the the Acoustic Signals OFF/ON

The currently setting value is displayed:

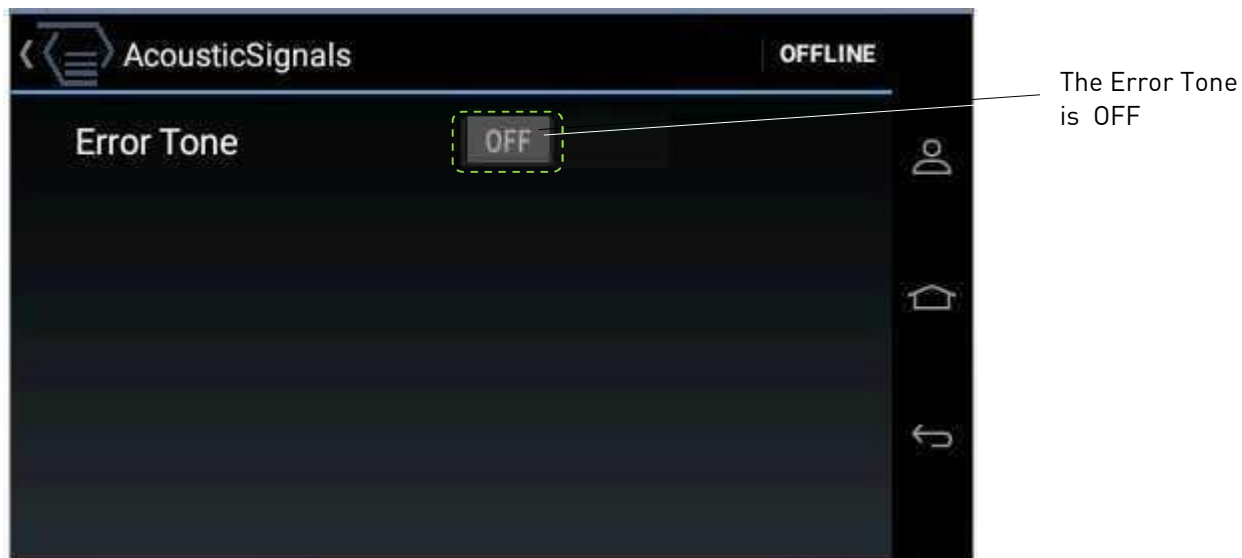


Fig. 6.2.9.1.b The Error Tone is switched off in this example

- ⑥ Tap on the **Button (Toggle Switch)** for the **Error Tone** to change the setting:

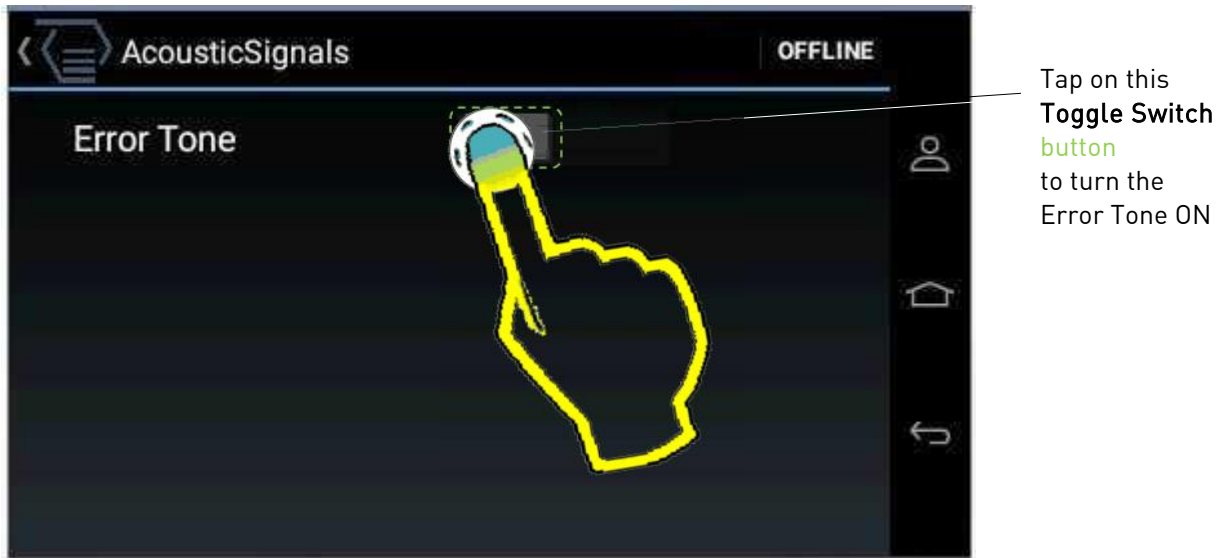


Fig. 6.2.9.1.c Tap on the current value (Toggle Switch) to change the configuration



Fig. 6.2.9.1.d The Error Tone is ON now

Hint: Each time that you tap on the displayed setting value you change the configuration = Toggle Switch button.

- ⑦ For your return from the submenu level there are several ways:

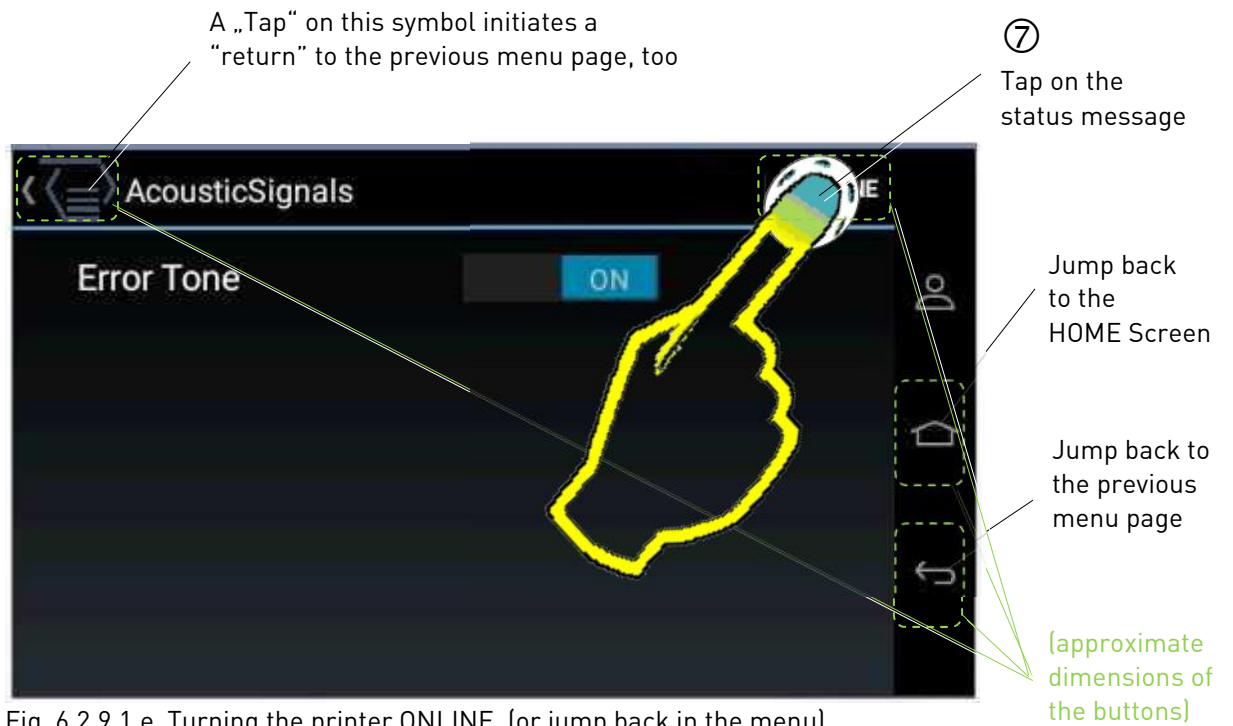


Fig. 6.2.9.1.e Turning the printer ONLINE (or jump back in the menu)

6.2.10. Entering Function Values (Numeric Keypad ...)

6.2.10.1. Example: Setting the Paper Width

Hint:

The way down to the main menu (Printer Settings) is described at the beginning of section 6.

- ③ In the main menu tap on the item **Paper Menu** to change the settings:

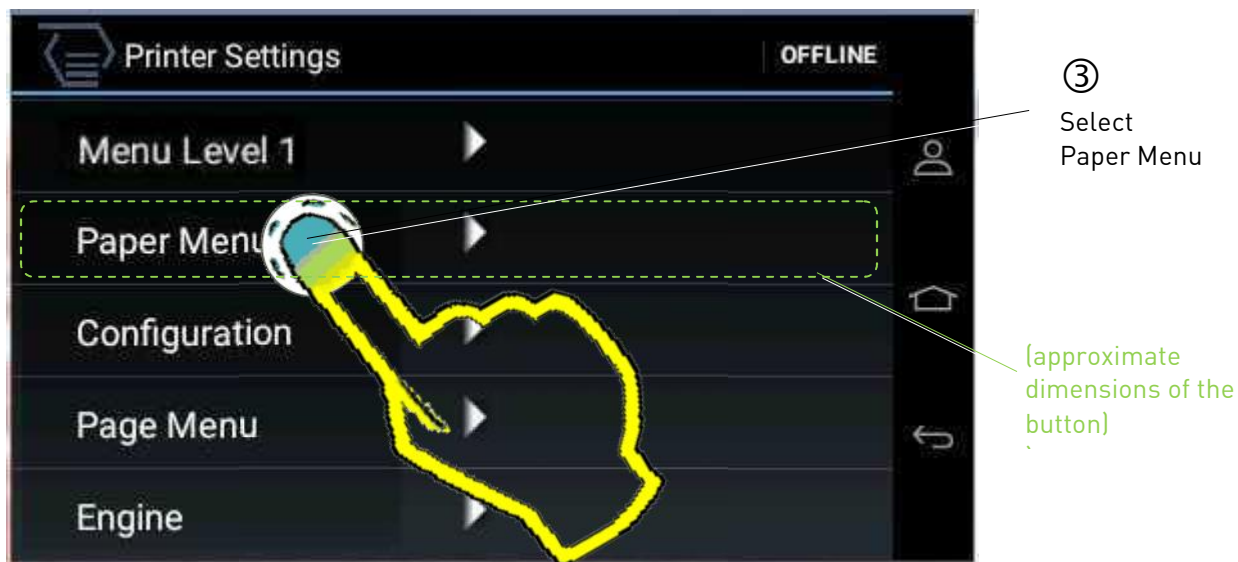


Fig. 6.2.10.1.a In the Main Menu tap on the Paper Menu

The Paper Menu is displayed:

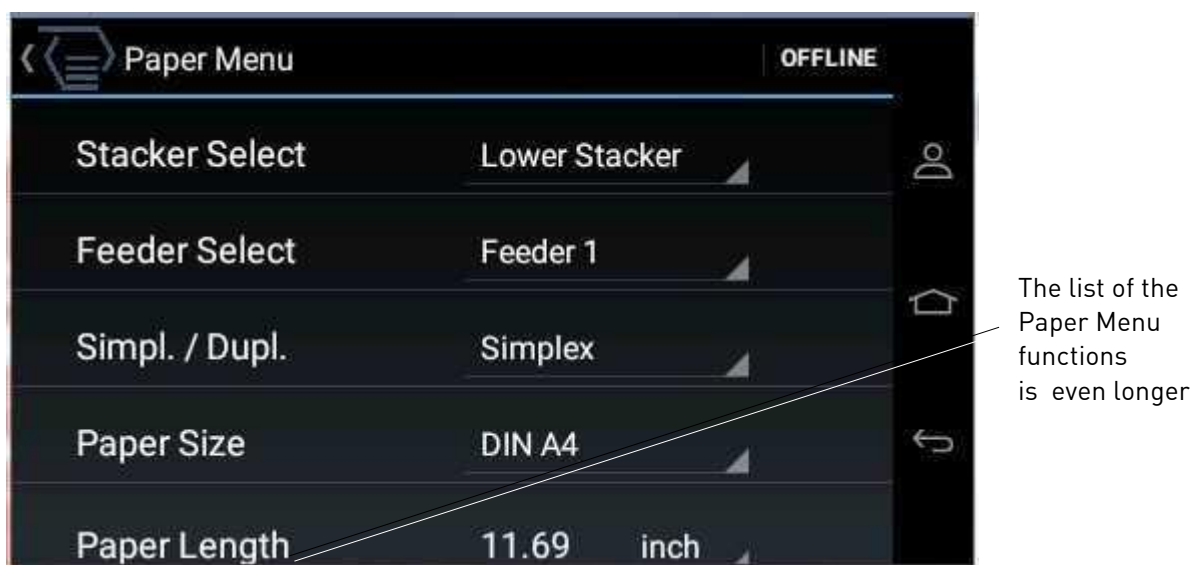


Fig. 6.2.10.1.b In the Paper Menu the first menu items are displayed only

- ④ Find the „Paper Width“ function in the **Paper Menu list** by „wiping“:
Touch the screen with your finger (don't lift it but hold your finger on the screen) and slide/wipe the finger up the touchscreen. After that you can lift your finger.

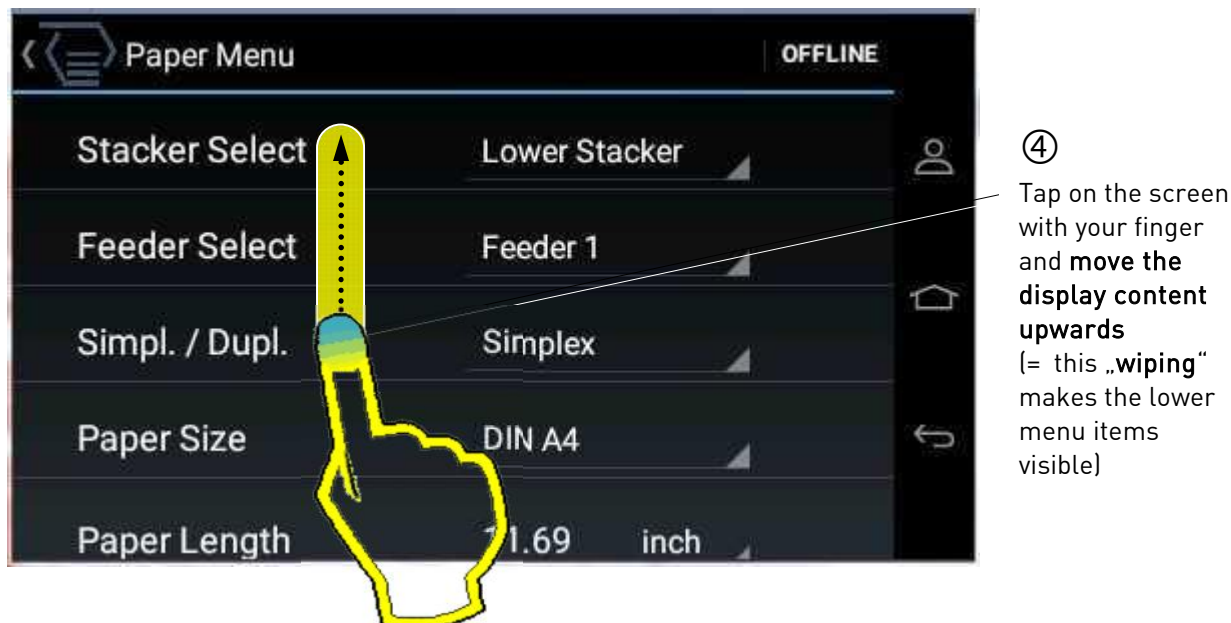


Fig. 6.2.10.1.c Make the lower menu items of the Paper Menu visible

The lower menu items are visible on the touchscreen now:

- ⑤ Select the measuring unit for the Paper Width setting (inch or mm).
⑥ Tap on the paper width value to change the Paper Width setting:

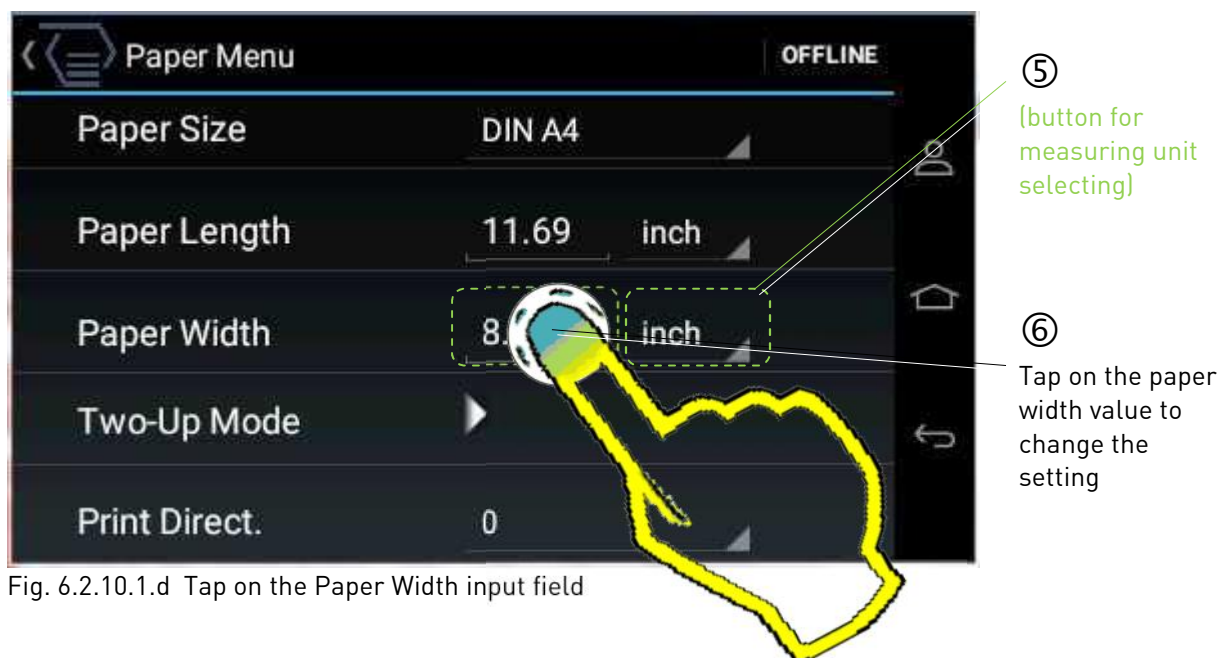
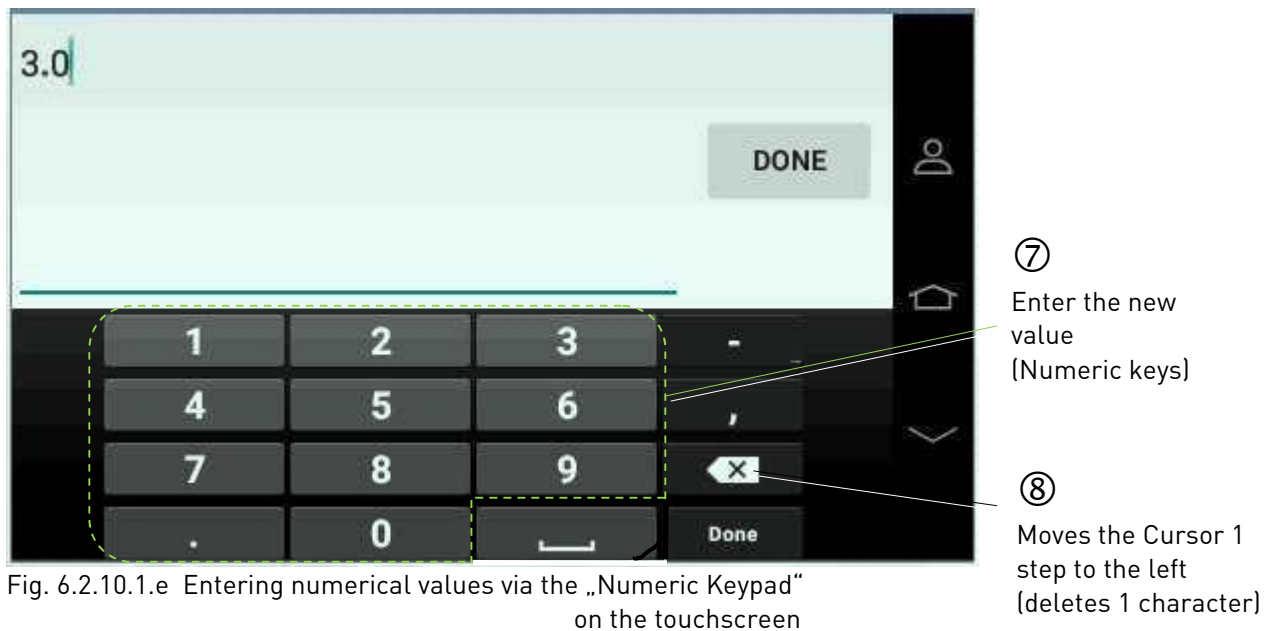


Fig. 6.2.10.1.d Tap on the Paper Width input field

- ⑦ Enter the new numerical value for the Paper Width:



Hint As an alternative to entering values on the touchscreen of the printer, you may enter the new value via the device keypad:



- ⑧ For **Deleting** numbers you may use the **X Button** located on the touchscreen or the **X Key** on the **Device Keypad**.

- ⑨ You have to tap on “DONE” to confirm the new Paper Width setting.
(As an alternative you can tap on the „Done“ button at the bottom of the screen.)

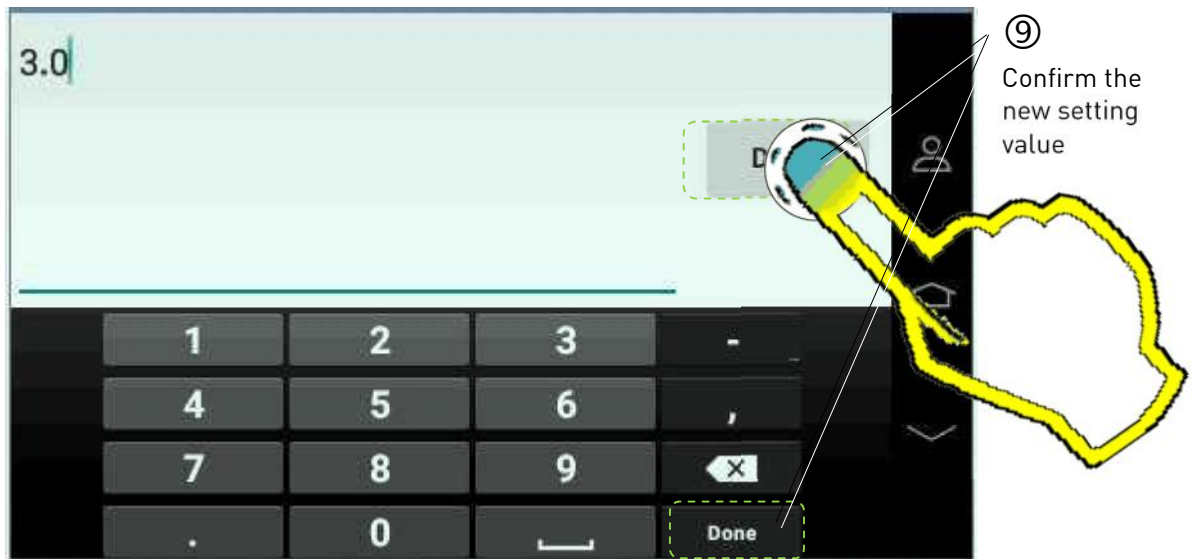


Fig. 6.2.10.1.g Finalizing the setting by a tap on „DONE“

Hint: The printer saves the new paper width setting permanently (as switch-on value)
(Message „Configuration saved“).

- ⑩ For your return from the submenu level there are several ways:

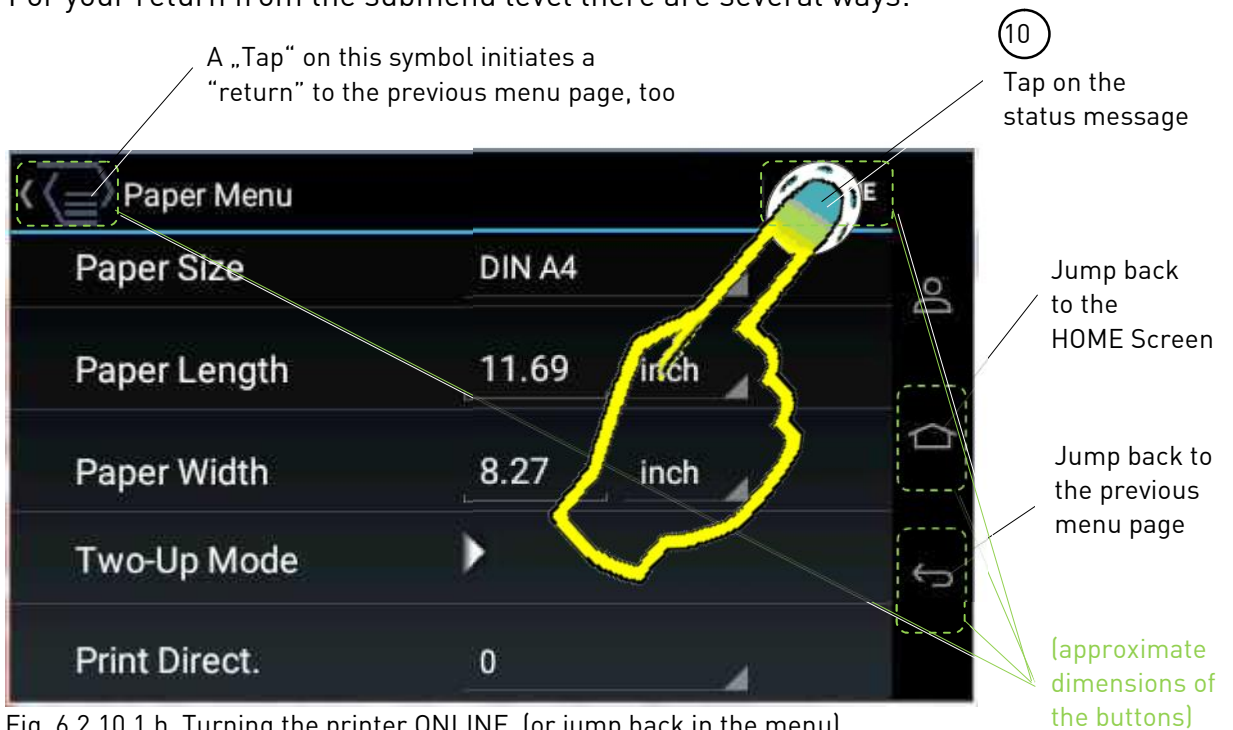


Fig. 6.2.10.1.h Turning the printer ONLINE (or jump back in the menu)

7. Control the Print System Remotely via Website / IP-Admin Panel

7.1. Abstract

You can also access the SOLID 52 A4 remotely.

The internal web page of the printer enables you for example to control or configure the printer using a computer that is connected via Ethernet (MICROPLEX IP-Panel and WebPanel).

7.2. Connecting the Printer to the Network

1. Connect the SOLID 52 A4 to your network* (via the Ethernet port, compare section 5.2 Attaching the Printer to a Network/PC).

The following network parameters** are for instance factory default settings:

IP Address	192.168.128.128
Subnet mask	255.255.255.0
Gateway	0.0.0.0

2. The status sheet (see section 9.1) contains information about the current printer configuration and the IP address of the printer.
The panel function **Show Info** (see section 9.2) serves to show some basic information about your printer: the IP Address, Firmware Release, Serial Number and the current Printer Emulation.

3. Start your Web Browser and type the IP address of the printer in the address bar of the Web browser:

http://192.168.128.128/

* More details are described in the document [Networking Features of MICROPLEX Printers](#). You'll find this document on the MICROPLEX Documentation CD. The CD belongs to the extent of supply of your printer.

** The network settings can be changed.
(See section 9.6 Configuration of Network Parameters).
The **status sheet** of the SOLID 52 A4 shows the **current settings**.

The Web Browser shows the Information page of the MICROPLEX **WebPanel**:

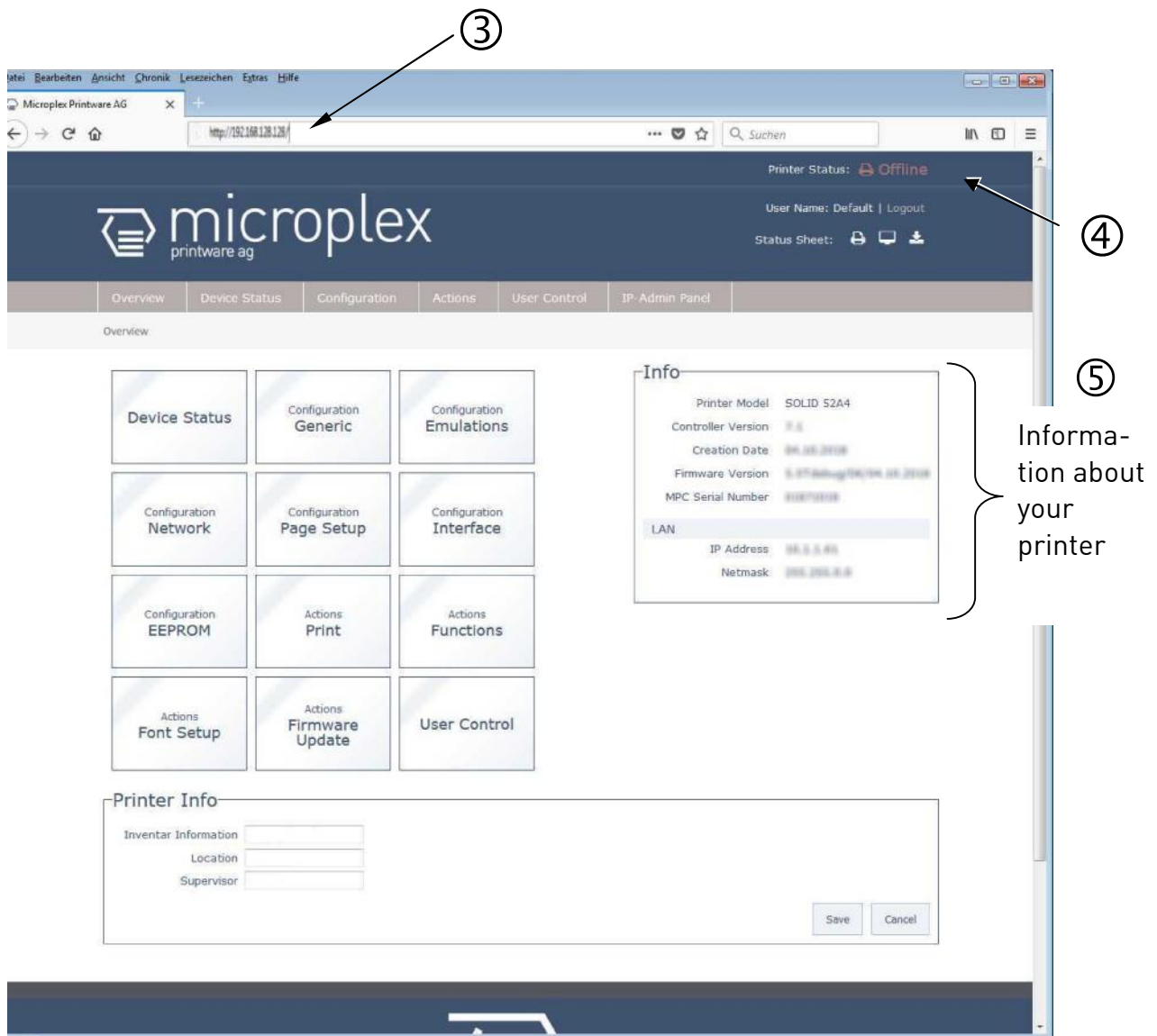


Fig.7.2.a SOLID 52 A4: Overview page of the MICROPLEX WebPanel

- ④ On the **Overview page** the printer status is displayed,
- ⑤ as well as information on the controller and firmware version of your device.

Hint:

More details about this WebPanel are described in the following sections. If you are already familiar with the panel functions of MICROPLEX printers you may skip to section 7.4 Remote Control via the IP-Admin Panel.

7.3. Remote Control via the integrated Website (WebPanel)



The print system settings can only be changed if the **printer** is turned **OFF LINE**.

7.3.1. Overview Page

On the Overview page the printer status is displayed, as well as information on the controller and firmware version of your device.

Access to other menu pages

Printer Status: **Offline** ①

User Name: Default | Logout

Status Sheet: [Print] [Download] ②

Overview | Device Status | Configuration | Actions | User Control | IP-Admin Panel

Device Status | Configuration Generic | Configuration Emulations

Configuration Network | Configuration Page Setup | Configuration Interface

Configuration EEPROM | Actions Print | Actions Functions

Actions Font Setup | Actions Firmware Update | User Control

Info

Printer Model	SOLID 52A4
Controller Version	1.0
Creation Date	04.05.2018
Firmware Version	1.0.0.0 (Build 10/04/2018)
MPC Serial Number	00000000
LAN	
IP Address	192.168.1.10
Netmask	255.255.255.0

Information about your printer

Printer Info

Inventar Information

Location

Supervisor

Save Cancel ③ ④

Fig. 7.3.1.a SOLID 52 A4: Overview page of the MICROPLEX WebPanel

- ① The printer status messages are displayed here (Offline/Online).
- ② Here you can release the printing of the printer status sheet, view it and save it to a file.
- ③ To change a parameter, „click“ on this specific parameter:
Select for example the input field „Inventar Information“ and then enter a new inventory number for this printer.
- ④ Complete the input of the function value with the Save key.

The print system confirms the acceptance of the new setting value. (An improper setting value leads to an error message.)



The following descriptions of panel functions are written assuming the printer is turned **OFFLINE**.

7.3.2. Configuration Page

On the Configuration page a number of print system configuration parameters can be changed.

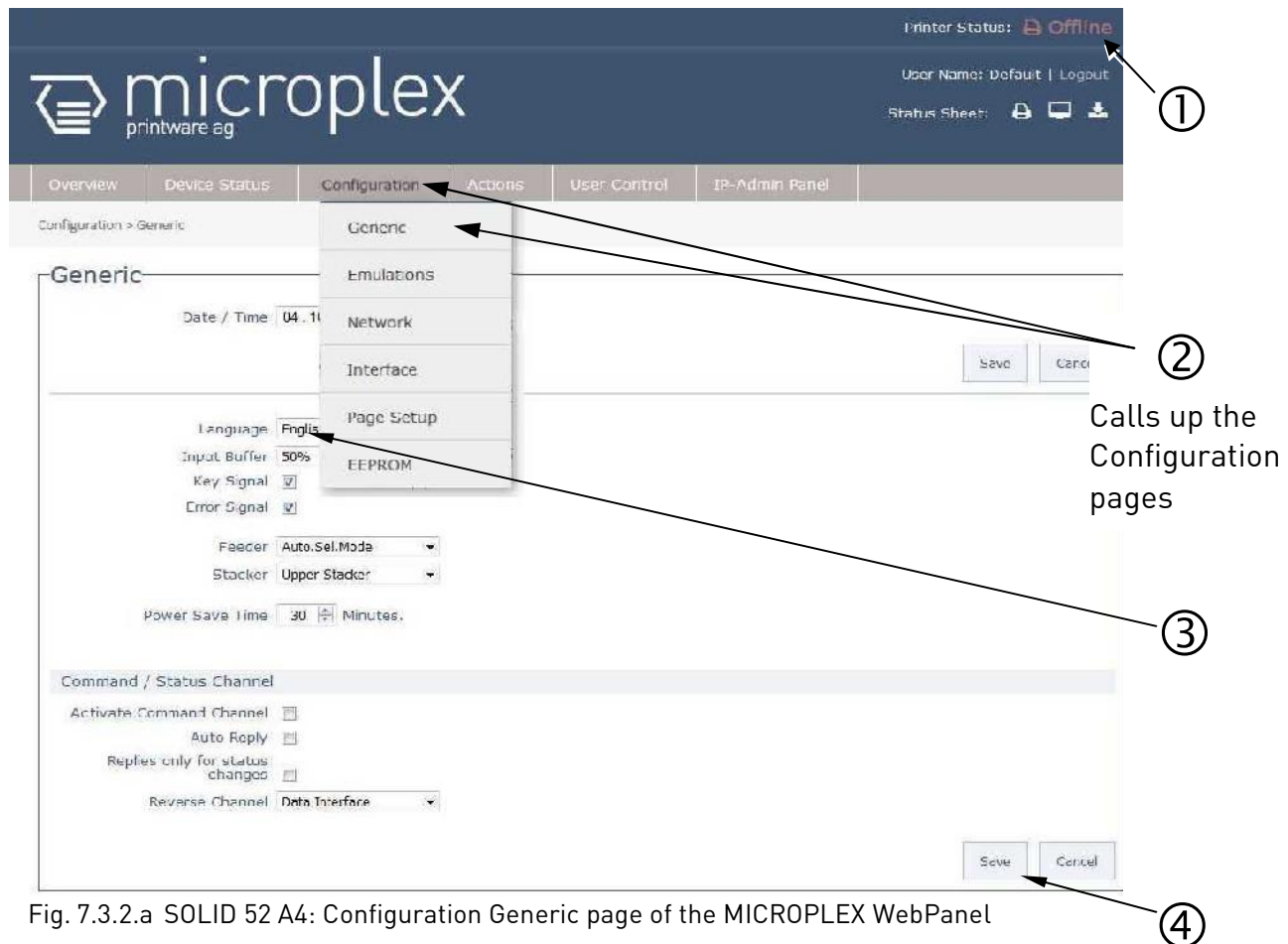


Fig. 7.3.2.a SOLID 52 A4: Configuration Generic page of the MICROPLEX WebPanel

Abstract:

Please „click“ on the parameter you wish to change:

- ① Click on the „online“ status message to turn the printer offline.
(Clicking on the „offline“ message turns the printer online again).
- ② Click on „Configuration“ and select the menu item „Generic“, to get to the Configuration page, that is shown above.
(or click on the button „Configuration Generic“ on the Overview page of the MICROPLEX WebPanel, compare Fig. 7.2.a)
- ③ Click the input field for the Language to change the language of the display messages, the status sheet...
- ④ Complete the input of the function value with the Save key.

7.3.3. Page Setup Page

On the Page Setup page you can for example set the paper size and the margins for the printouts.

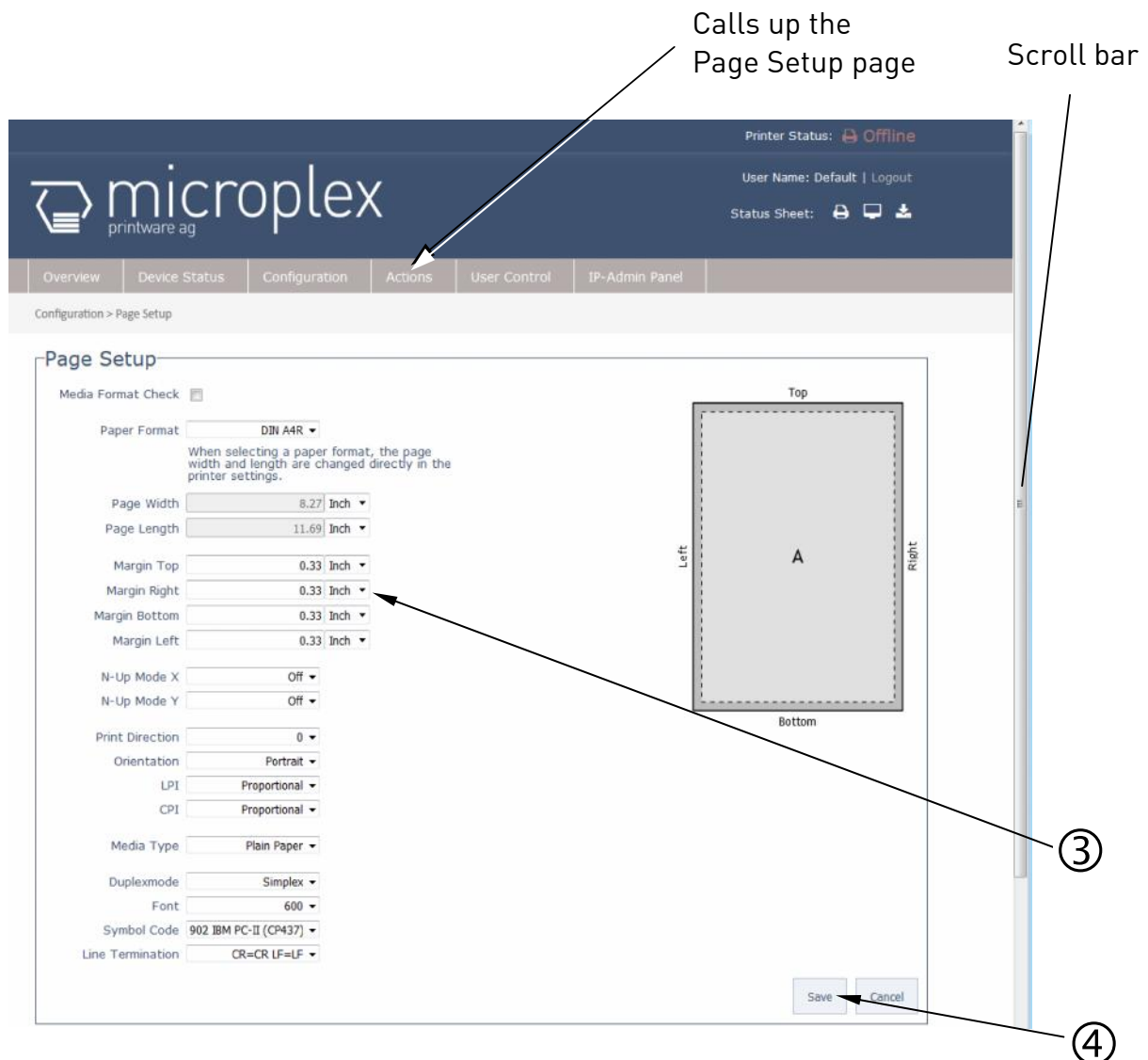


Fig. 7.3.3.a SOLID 52 A4: Page Setup page of the MICROPLEX WebPanel

- ② Click on „Configuration“ and select the menu item „Page Setup“, to get to the Page Setup page, that is shown above.
(or click on the button „Configuration Page Setup“ on the Overview page of the MICROPLEX WebPanel, compare Fig. 7.2.a)

- ③ Click on the adjustable values, use the input fields.

If the lower part of the menu page is not visible:

Please use the scroll bar at the right side of the screen to make the lower part of the menu page visible.

- ④ Click the Save button to finalize your settings.

7.3.4. Network Page

On the Network page you can configure the parameters for a network connection of the printer.



Fig. 7.3.4.a SOLID 90 A3-2/105A3-2/120 A3-2: Network page of the MICROPLEX WebPanel

Abstract:

Please „click“ on the parameter you wish to change:

- ① Click for example on ConfigType and select Manual.

- ② Click on the input field for the IPAddress and then enter a new IPAddress.

Hint: The best way is to write the new IPAddress for example on a label and put it onto the device.

- ③ Click on the input field for the Subnet Mask and enter the subnet mask.

- ④ Click the Save button to finalize your settings.

More details on the network parameters can be found in chapter 6 up to 9.

7.3.5. Device Status Page

The Device Status page is not only accessible via the menu, but also appears if you click on the error message (in the event of a fault).

(or you are on the Overview page of the MICROPLEX WebPanel, then you can click on the button „Device Status“, compare Fig. 7.2.a)

Calls up the Device Status page

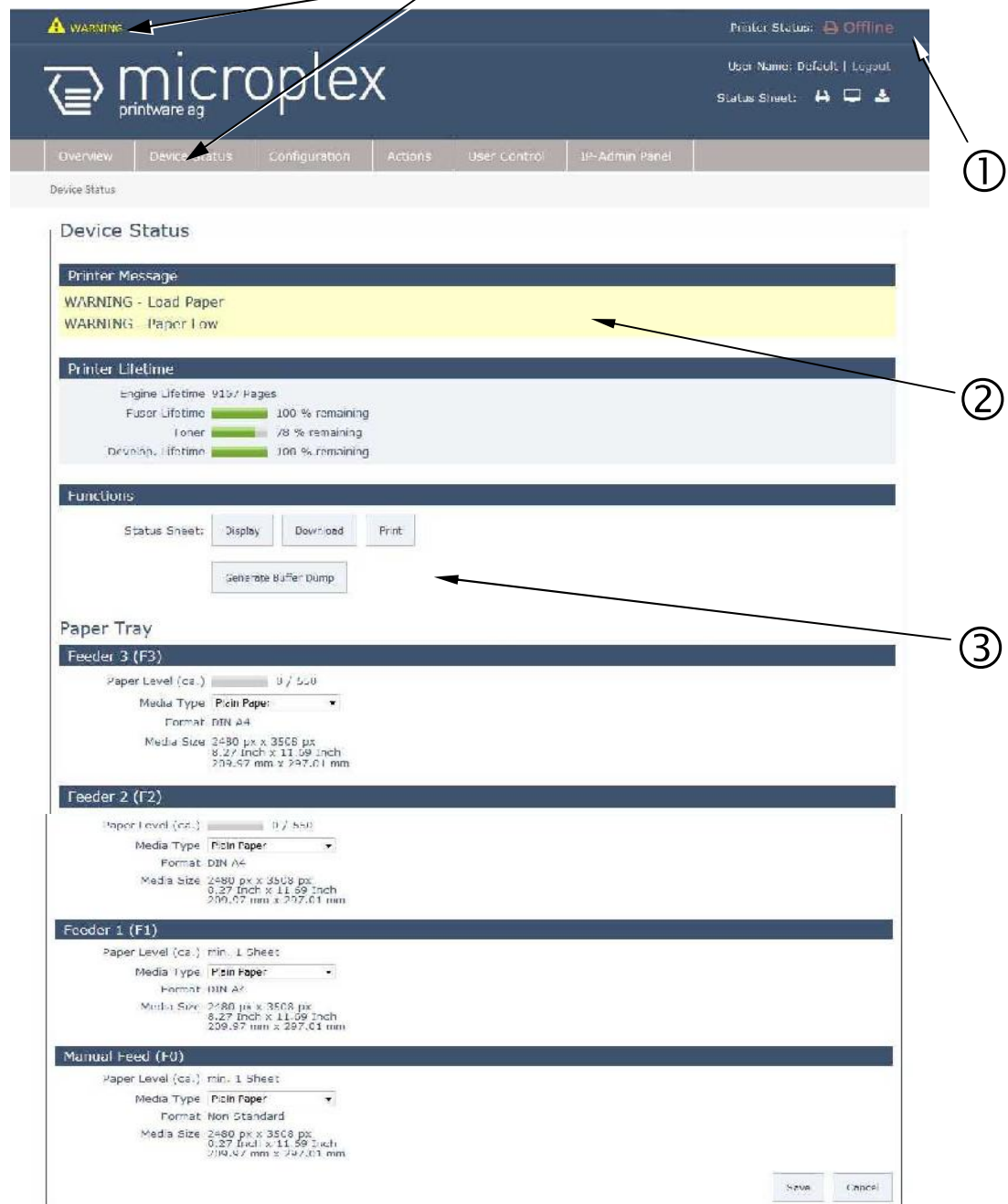


Fig. 7.3.5.a SOLID 52 A4: Device Status page of the MICROPLEX WebPanel

Abstract:

- ① The printer status messages are displayed here (Offline/Online).
Error messages (short form) are displayed in this area, too.
- ② The (Error)Messages of the printer are listed here.
- ③ Here you can show the printer status sheet, save it to a file, and release its printing.

7.3.6. EEPROM Page

Attention:

You have to be **very careful** when changing parameters via the EEPROM page. If you use wrong parameters, the printer could hang up!

Before you change EEPROM parameters of the print system it is recommended to generate a **Status Sheet**! This facilitates a reset of the printer (resetting the parameters to the former settings).

The parameters must be written in hexadecimal numbers (0000 to FFFF). These EEPROM values are printed out in the first to third line of the Status Sheet.



Fig. 7.3.6.a SOLID 52 A4: EEPROM page of the MICROPLEX WebPanel

The fourth line (Word 49 to Word 64) cannot be changed by the user.

Hint:

For more details refer to our offer of MICROPLEX Training Courses and the corresponding documentation: "The EEPROM-Sequence".

7.3.7. User Control Page

On the User Control page you can register all users with user name and password.

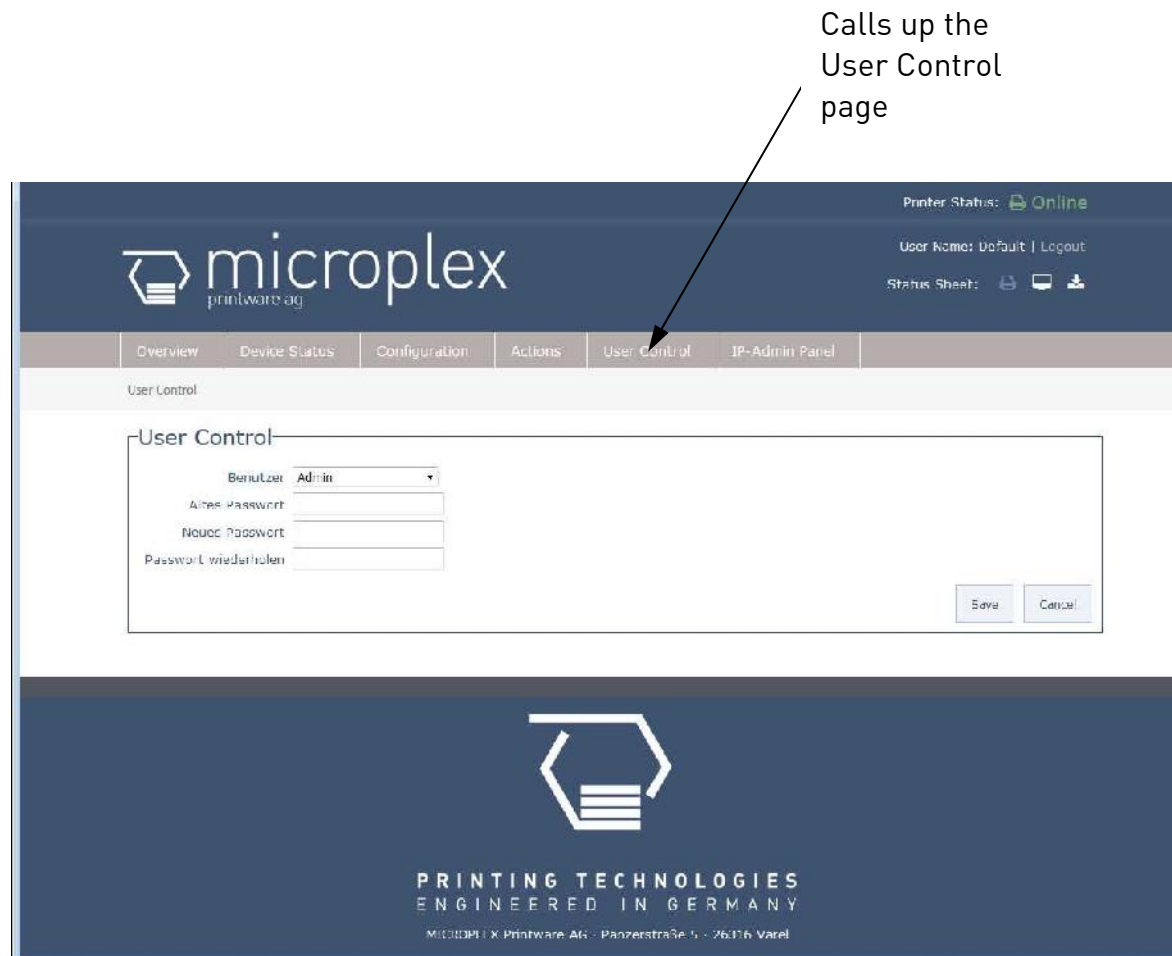


Fig. 7.3.7.a SOLID 52 A4: User Control page of the MICROPLEX WebPanel

Choose the User/Group and enter the passwords.

Click the Save button to finalize your settings.

7.4. Remote Control via the IP-Admin Panel User Interface

7.4.1. Abstract

If you are already familiar with the panel functions of MICROPLEX printers the IP Panel enables you to do the well-known operating steps.

1. Type the IP address of the printer in the address bar of your Web browser:
(compare the previous sections, example: <http://192.168.128.128/>).

The browser shows the Overview page of the MICROPLEX WebPanel:

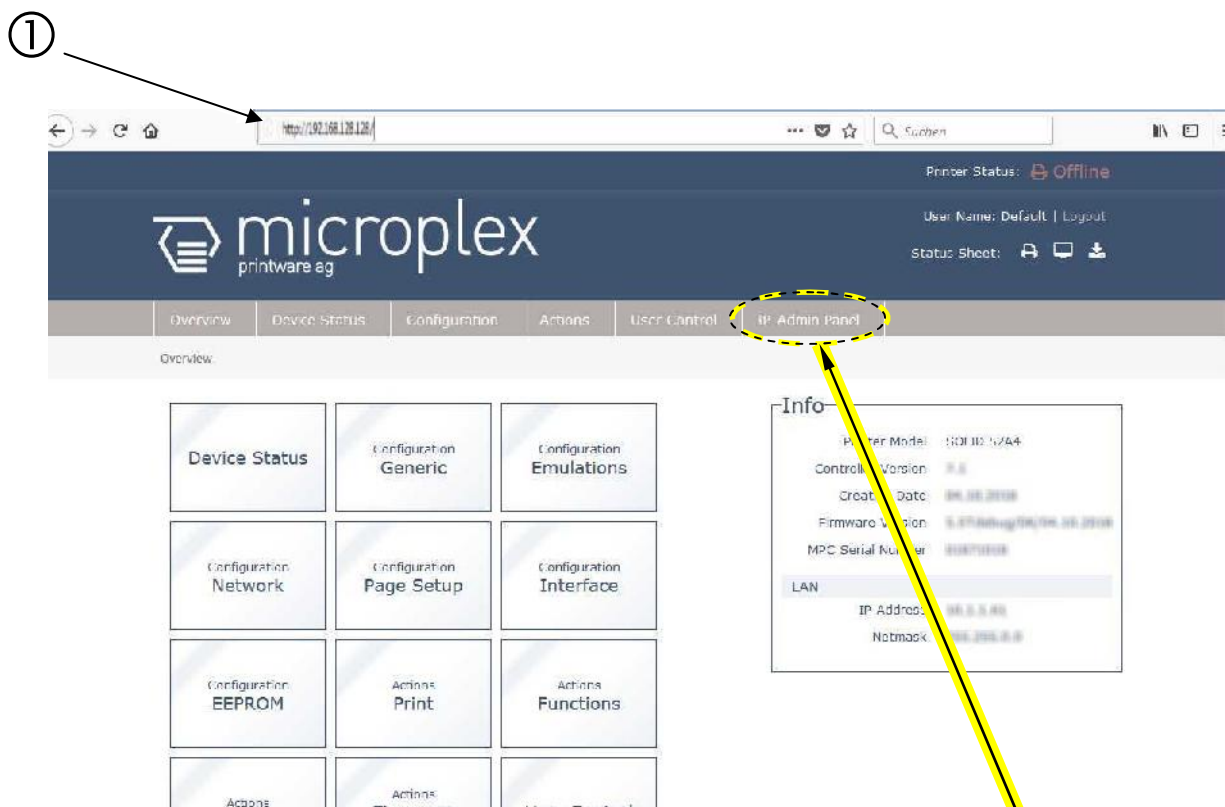


Fig. 7.4.1.a SOLID 52 A4: Overview page of the WebPanel

2. By „touching“ the IP-AdminPanel button you can switch to the **IP-Admin Panel user interface** directly („panel“ as you know it from other MICROPLEX printers, see the following sections).

The **virtual control panel** (internal web page of the printer) of the SOLID 52 A4 pops up:

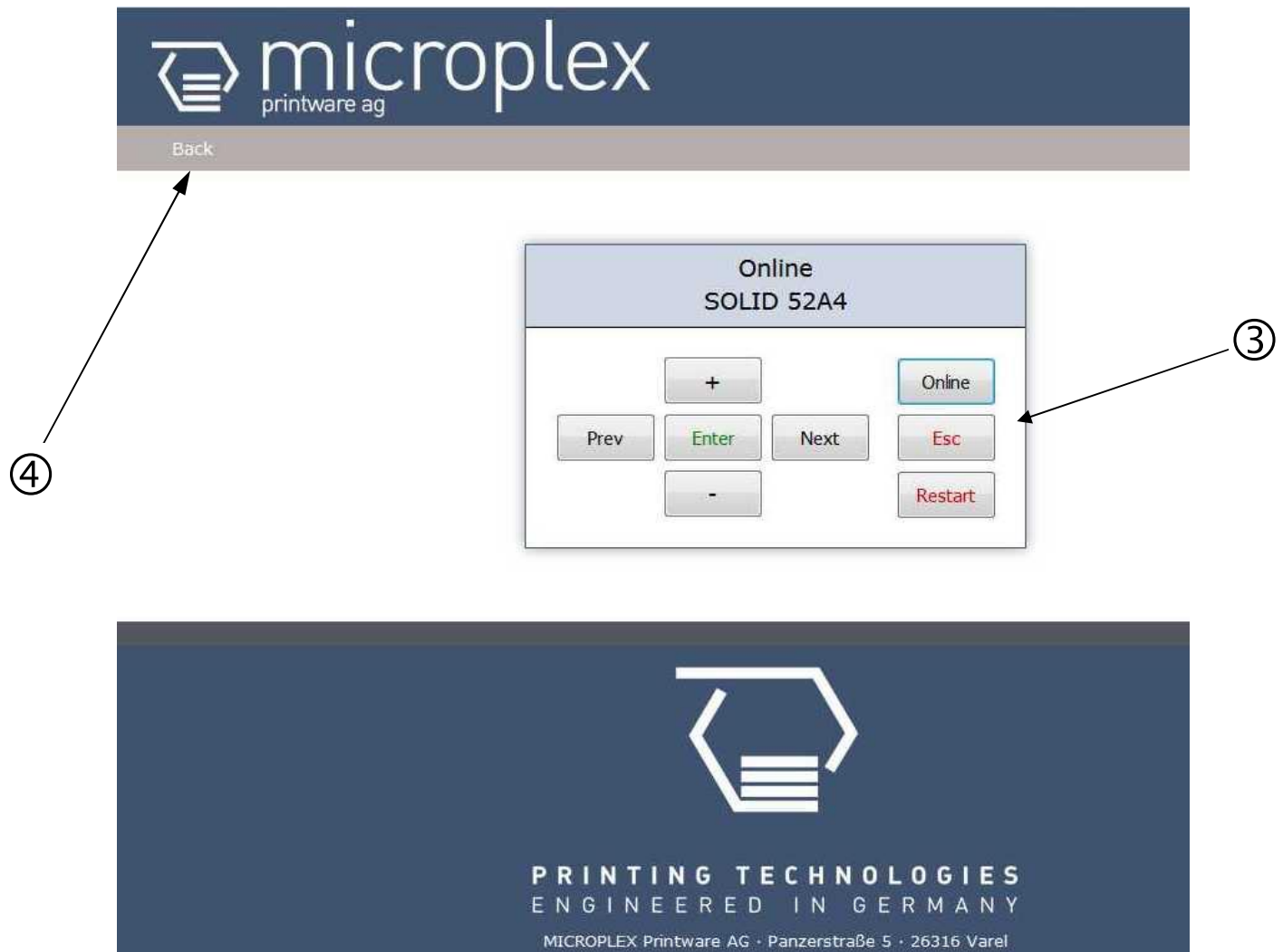


Fig. 7.4.1.b The MICROPLEX IP-Admin Panel is the virtual control panel of the SOLID 52 A4

- ③ This virtual control panel enables you to get access to the printer's menu structure.

Details about the panel functions can be found in the following sections.

- ④ A „click“ on the Back button brings you back to the Overview page of the MICROPLEX WebPanel.

7.4.2. Details of the IP-Panel Elements

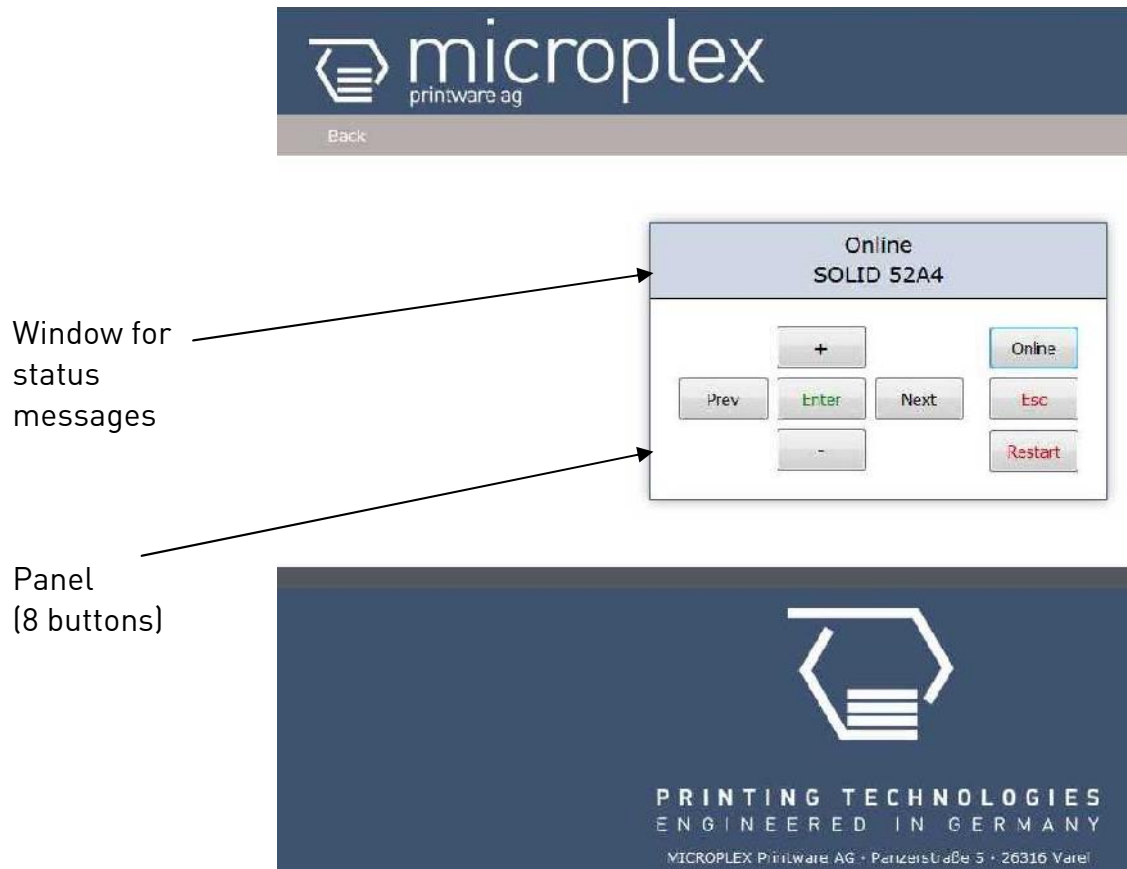
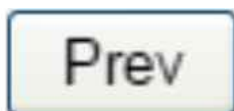


Fig. 7.4.2.a MICROPLEX IP-Panel (virtual control panel of the SOLID 52 A4)

Buttons („Panel keys“)

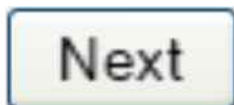
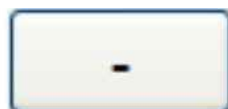


The  key turns the printer ON / OFF LINE.



These keys are used for working within the different levels of the menu structure.

This structure and the panel functions are described in the following.



Using this key a "Restart" is released in the OFF LINE mode. You can back out e.g. error messages by a Restart.

8. Printer Configuration and Menu Structure

8.1. Changing the Printer Configuration

You can use the panel functions directly via the touch panel of the SOLID 52 A4 or by remote-control via network (**IP-Panel** and **WebPanel**) to change the printer configuration and to customize your device to meet your specific needs.

Chapter 9 (Panel Functions) describes how to use the particular printer functions.

If the **touchscreen** is used to **change function values**, the new values are always saved **p e r m a n e n t l y**.

If function values are changed via **IP-Panel** or **WebPanel** the new printer configurations can be saved **t e m p o r a r y**.

Then the changes in printer configuration are effective only as long as the printer stays turned on. To select such changes temporarily, the user must terminate the change of function by pressing the  key (only one single time).

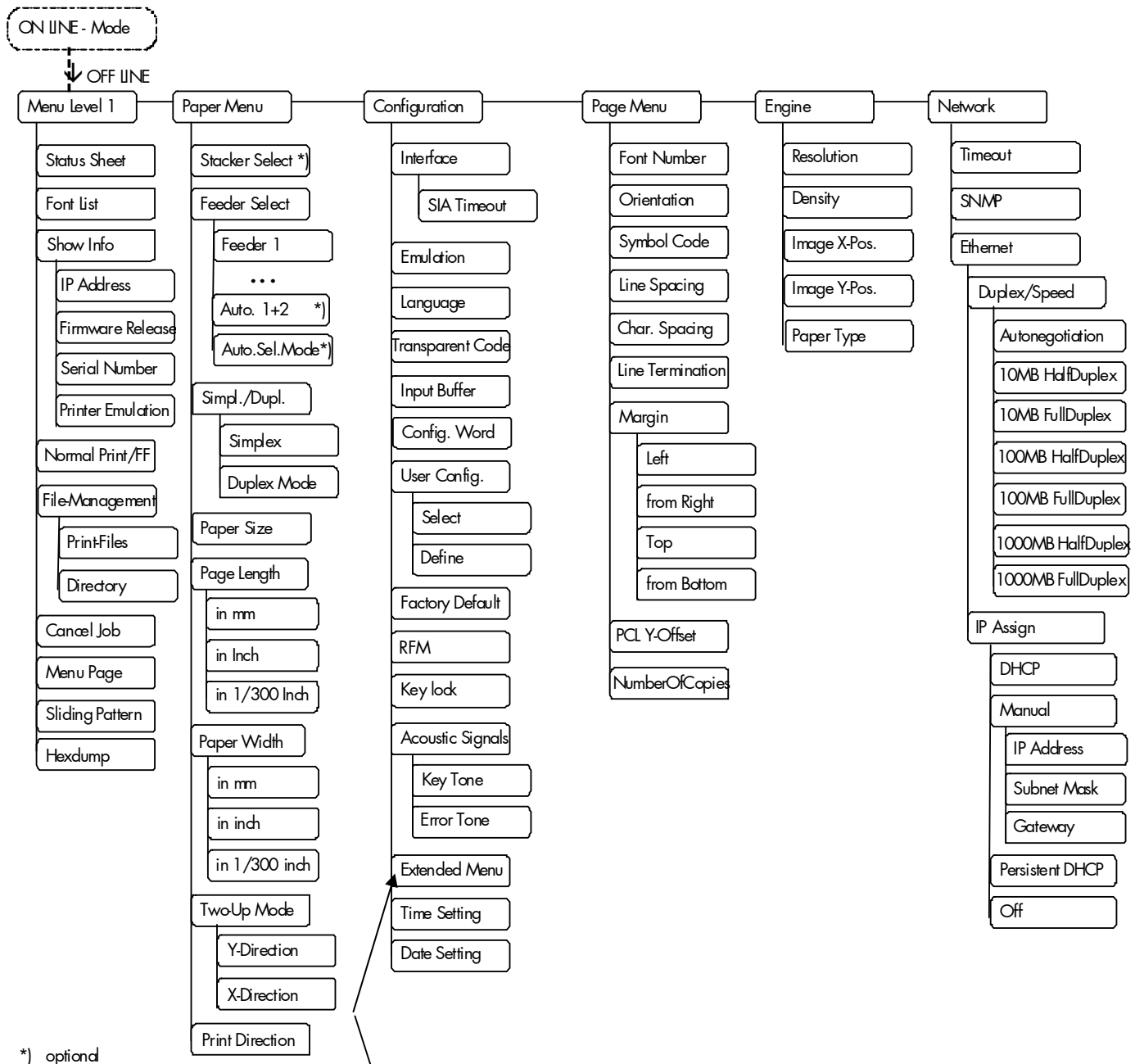
To select such changes **p e r m a n e n t l y**, the user must terminate the change of function by pressing the  key **two times**.

P e r m a n e n t changes in printer configuration are active each time the printer is turned on again.

An output of the current printer values can be generated using the panel function "Printing the Status Sheet " (see section 9.1).

8.2. Menu Structure

Access to the menu structure is possible as soon as the printer is turned OFF LINE.
The menu structure of the SOLID 52 A4 is arranged in different levels:

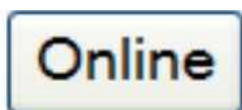


This panel function allows the user to choose a **reduced menu** instead of the extended menu shown above.

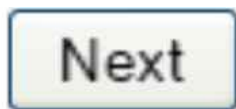
Selecting positions in the menu structure:

IP-Panel
Buttons:

Descriptions:



This symbol shows the  button. You get automatically into menu level 1, if the printer is turned OFF LINE with this button.



By pressing the  button or the  button you can move within the menu levels.

["Menu Level"]

Each menu item/subitem within a menu level is shown in the display.



The  button has two main functions. It gives the user access to a particular menu and, once in the menu, it allows the user to select a particular function.

["Function"]

Functions / Changing of function values:

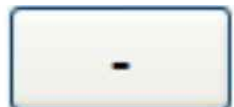
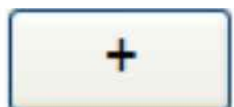
IP-Panel

Buttons:

Descriptions:



In case of a multi-digit function value these buttons are used to select the position within the function value to be changed (DIGIT).



These buttons change the value of the selected digit of the function value.



By pressing this button the selected function is activated respectively the function values currently displayed are confirmed.



In case of a multi-digit function value pressing the  button switches to the next position of the function value.

Pressing the  button switches to the previous digit of the function value.

Please note: If you press the  button although the absolute left digit of the function value is still arrived, the changing procedure will be cancelled and this moves you to the next menu level above.

If you press the  button although the absolute right digit (digit 1) of the function value is still arrived, the currently displayed function value is stored.

IP-Panel

Buttons:

Descriptions:



Pressing the button the displayed function value is confirmed respectively the displayed function is activated. The changes are saved temporary. (This means, the changes are saved only until the next printer power off).

[Save as Setup?]

After this you have to decide, if you want to save the changes permanent (Save as setup).



To select such changes permanently, the user must press the button one more time. These permanent changes in printer configuration are active each time the printer is turned on again.



If this button is pressed instead, the changes are only stored temporary (not saved as setup). (This button takes the user to the respective previous menu level).

Return to the menu level above:

IP-Panel

Buttons: Descriptions:



Pressing this button takes the user back to the respective menu level above.

Return to the ON LINE mode:

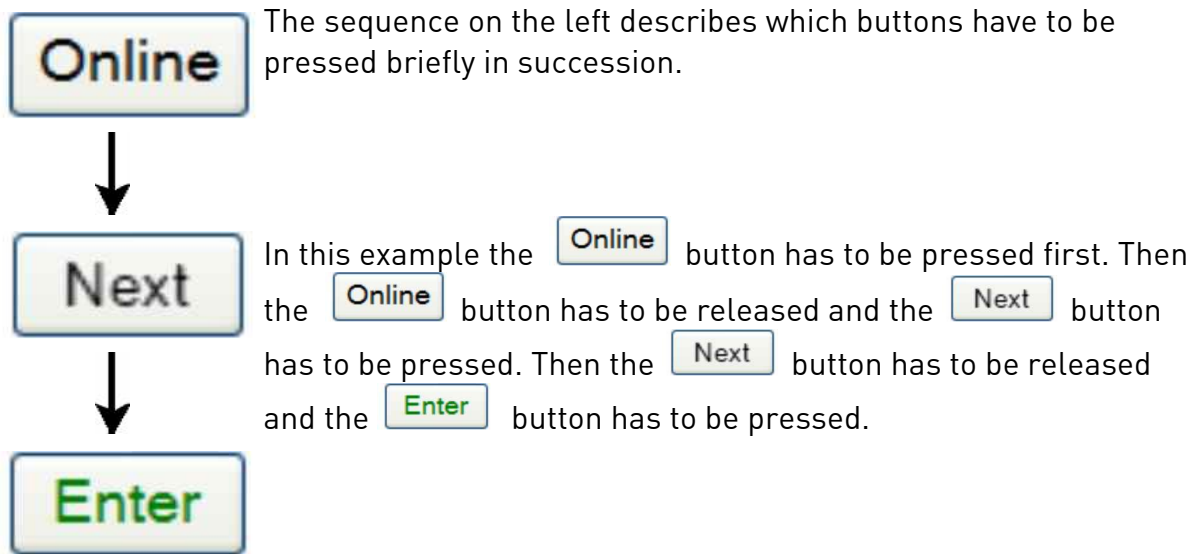


Pressing this button switches the user directly to "ON LINE" from any menu position.

8.3. Syntax of Diagrams

The control panel functions will be described using diagrams. These diagrams show the course necessary in order to activate a certain function.

First the elements of the diagrams are explained:



["Message"]

The "Panel display" column shows the display messages corresponding to the sequences listed on the left.

In the column "Notes" explanations to particular operational steps are given.

9. Panel Functions



For the panel functions described in the following, the printer is presumed to be switched on and in the ON LINE mode.

9.1. Printing the Status Sheet

This function generates a status sheet. The status sheet contains information about the current printer configuration, the available fonts and options.

<u>Panel display</u>			<u>Notes</u>
[Online	]		Turn the printer OFF LINE with this key.
[Menu Level 1	]	↓ 	Press this key. Menu Level 1 is selected.
[Status Sheet	]	↓ 	Press this key again.
[Status Sheet	]	↓	A status sheet is printed.
			Turn the printer ON LINE again: Press the  key.
[Online	]		After this the printer is ready to print again.

Status sheet contents:

The first lines, entitled SERVICE INFORMATION, contain hexadecimal coded configuration parameters.

Printed in plain text:

- Controller version / memory / serial number
- Firmware release
- Interface
 - parameters of Parallel, USB, Network (Ethernet)
- Network
 - parameters and addresses
- Printer emulation
- User-RAM / free User-RAM
- Input data buffer
- Transparent code
- Paper size
- Default margins
 - top / left
 - bottom / right
- Default character code
- Options
- Fonts installed (Font banks)

Note: Use the panel function Printing the Font List to show the fonts installed (see section 9.19).

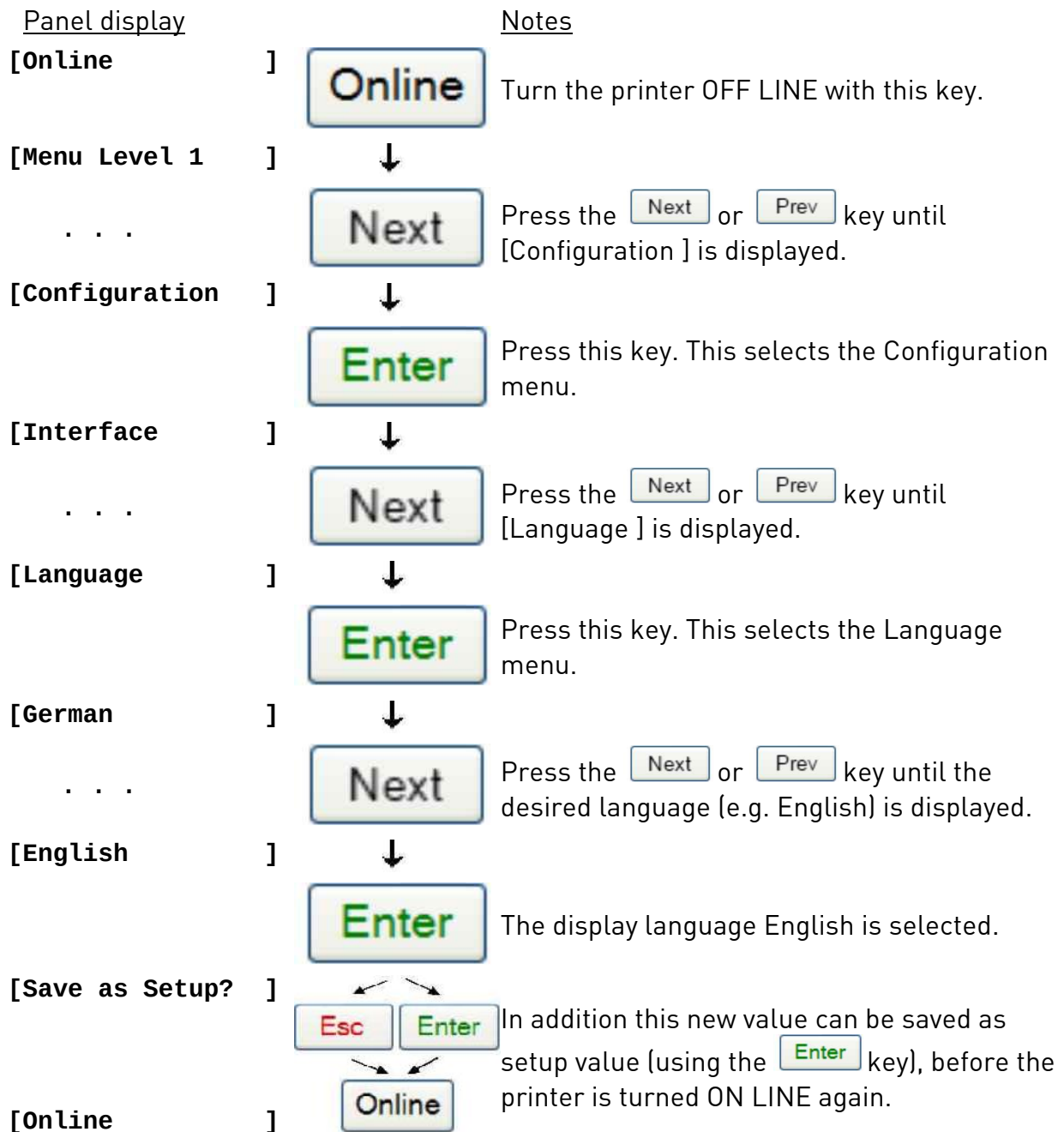
9.2. Show Info (IP Address, Firmware Release ...)

This function serves to show some basic information about your printer: the IP Address, Firmware Release, Serial Number and the current Printer Emulation.

Panel display		Notes
[Online]		Turn the printer OFF LINE with this key.
[Menu Level 1]	↓	
		Press this key. Menu Level 1 is selected.
[Status Sheet]	↓	
. . .		Press the  or  key until [Show Info] is displayed.
[Show Info]	↓	
		Press this key. The Show Info menu is selected.
[IP Address]	↓	
		Press this key again to show the IP Address of your printer.
		Alternative: Use the  or  key to select for example the Firmware Release or the Serial Number of your printer.
[192.168.128.128]	↓	The currently set IP Address is displayed. If you need to change the setting, refer to section Configuration of Network Parameters.
		Turn the printer ON LINE again: Press the  key.
[Online]		After this the printer is ready to print again.

9.3. Display Language Selection

This function enables the user to determine the language for the display messages, the status sheet and the font list.



9.4. Printing the Menu Page

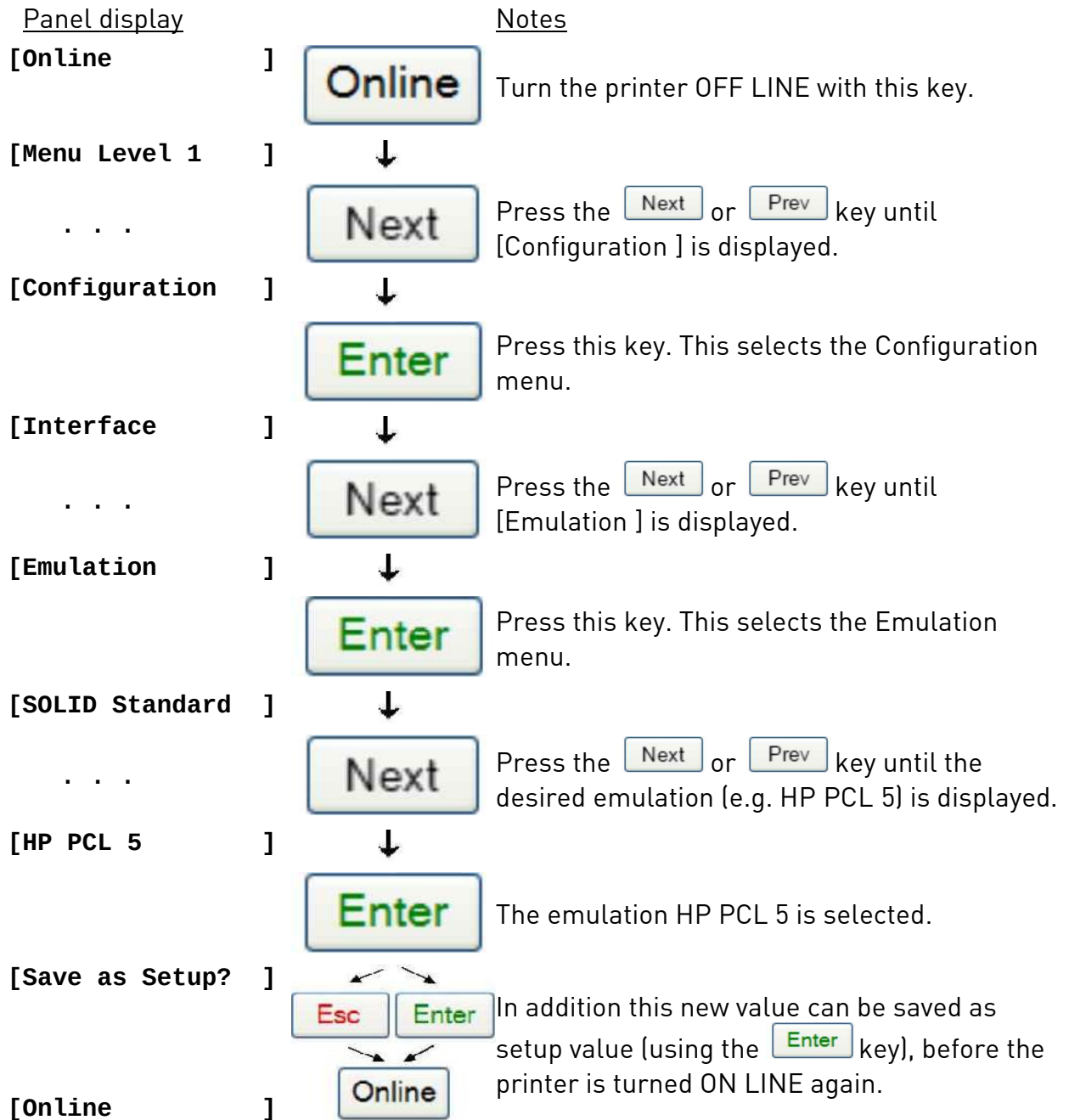
This function prints a survey of the available panel functions.

Note: When printing the menu page please use a large paper (letter).

<u>Panel display</u>			<u>Notes</u>
[Online	]		Turn the printer OFF LINE with this key.
[Menu Level 1	]	↓	
			Press this key. This selects Menu Level 1.
[Status Sheet	]	↓	
. . .			Press the  or  key until [Menu Page] is displayed.
[Menu Page	]	↓	
			A menu structure presentation of the printer is printed (compare diagram in section Menu Structur).
[Menu Page	]	↓	
			After pressing this key the printer is ready to print again.
[Online	]		

9.5. Emulation Selection

This function helps to determine which printer emulation will be activated.



Available emulations:

Standard:

SOLID Standard (MICROPLEX IDOL),
HP LaserJet (PCL 5e),
ZPL II (Zebra Programming Language),
Datamax (FGL),
Eltron EPL2,
Epson FX,
IBM Proprinter,
TIFF (CCITT group 4),

Optional:

CUPS Raster,
μPostscript,
IPDS (via PPD/PPR Protocol),
Kyocera Prescribe,
Printronix IGP/PGL,
Diablo 630,
AGFA Reno,
S3000 Lineprinter,
HPGL (7475A),
DEC LN03+,
Tally MT 6xx,
Bull MP6090,
TEC B6xx (Thermal Transfer),
TEC Bx72 (Thermal Transfer),
Etimark (Thermal Transfer),
IDS/IDS2,
QMS (Magnum) Code V,
ANSI (Genicom),
XEROX XES,
HP DesignJet (HPGL-2),
LDC (Label Description Language),
Express

(More emulations on request)

Notice:

The brand names mentioned are registered trademarks of the enterprises named above.

9.6. Configuration of Network Parameters (IP Address, e.g.)

The functions of the submenu Network are used to set the parameters for connecting the printer to a network (Ethernet).

Setting the IP address manually:

Panel display		Notes
[Online]		Turn the printer OFF LINE with this key.
[Menu Level 1]	↓	
. . .		Press the  or  key until [Page Menu] is displayed.
[Network]	↓	
		Press this key. The Network menu is selected.
[Timeout]	↓	
. . .		Press the  or  key until [Ethernet] is displayed.
[Ethernet]	↓	
		Press this key. The Ethernet menu is selected.
[Duplex/Speed]	↓	
. . .		Press the  or  key until [IP Assign] is displayed.
[IP Assign]	↓	
		Press this key. The IP Assign menu is selected.
[DHCP]	↓	The current configuration is displayed.
. . .		Press the  or  key until [Manual] is displayed.
[Manual]	↓	
		Press this key to change address assignments, manually.

[IP Address]



Press this key to set the IP address manually.

[192.168.128.128]



The current IP Address is displayed.

Pressing the  or  key changes the value of the current digit. (Left digit first, in this example: 1).

. . .

Pressing the  key moves you to the next digit (the  key moves you back, if need be).

[192.168.128.123]



The new IP address is saved as setup value.

[Saved !]



After pressing this key the printer is ready to print again.

Hint:

The current network settings are shown on the Status Sheet of your printer, too.

Notes: If your network is using DHCP[®], an address can be automatically assigned (select the item **DHCP** from the network submenu IP Assign).

The parameters **Subnet Mask** and **Gateway** are configured in the same way as described above. Please select the concerning panel functions for this (compare section 8.2 Menu Structure).

Select the subitem **Off** from the network menu to switch off the network access.

[®] Dynamic Host Configuration Protocol: offers among other things a centralized address management.

Duplex/Speed Setting

This panel function is located in the network menu (submenu Duplex/Speed Setting).

The factory default value is Autonegotiation.

Autonegotiation means that devices on the network agree a transmission mode, which each unit is able to handle, before data transmission starts. By this the printer automatically adjusts itself to maximize link performance.

Hint: **Autonegotiation is the recommended setting!**
If you set the Duplex/Speed parameters manually, you may experience problems. Wrong settings can slow down the speed of the link (worst case: communication does not occur)

Explanations:

Auto-Negotiation

A Ethernet procedure that allows devices at either end of a link segment to advertise and negotiate modes of operation such as the speed of the link (100 Mbit/s or 10 Mbit/s) and half- or full-duplex operation.

Half duplex

A device can either receive or send data at a given time.

Full duplex

Capability of a device for sending and receiving data at the same time. In the case of full duplex, collision detection is deactivated. A full duplex capable device is able to buffer data packets.

9.7. Data Interface Configuration

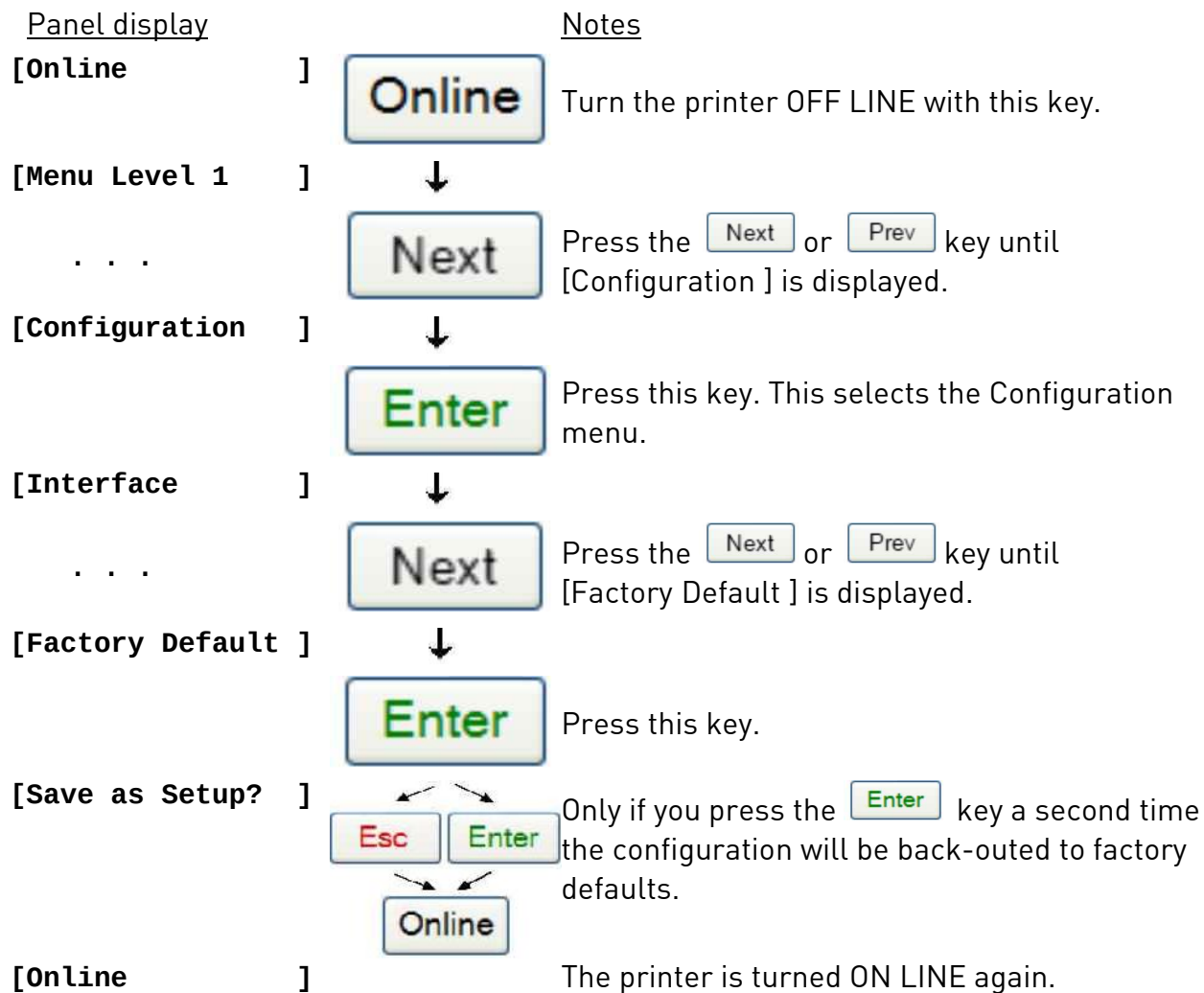
This function is used to set the interface parameters.

<u>Panel display</u>		<u>Notes</u>
[Online]		Turn the printer OFF LINE with this key.
[Menu Level 1]	↓	
. . .		Press the  or  key until [Configuration] is displayed.
[Configuration]	↓	
		Press this key. This selects the Configuration menu.
[Interface]	↓	
		Press this key. This selects the Interface menu.
[SIA Timeout]	↓	
		Press this key. This selects the Timeout menu.
[30 s]	↓	The currently set value for the timeout is displayed (here: 30 seconds).
. . .		Pressing the  or  key changes the timeout value. .
[40 s]	↓	
		The timeout (the waiting period for SIA to switch to the next interface) is increased to 40 seconds.
[Save as Setup?]	 	In addition this new value can be saved as setup value (using the  key), before the printer is turned ON LINE again.
[Online]		

Note: The printer uses SIA (Simultaneous Interface Administration) to check, which interface is currently used for the transfer of print data.

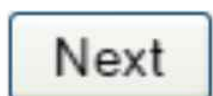
9.8. Setting to Factory Default

This function back-outs all configurations to factory defaults.



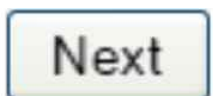
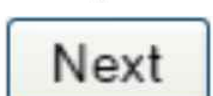
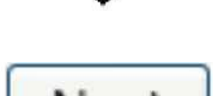
9.9. Transparent Code Adjustment

This function configures the transparent code. Using the transparent code enables you to initiate the commands of the page description language IDOL by **printable** characters. The transparent code pre-setting is 2625. These are the ASCII character codes (hexadecimal) for the characters &% (ref. IDOL Programming Manual).

Panel display		Notes
[Online]		Turn the printer OFF LINE with this key.
[Menu Level 1]	↓	
...		Press the  or  key until [Configuration] is displayed.
[Configuration]	↓	
		Press this key. The Configuration menu is selected.
[Interface]	↓	
...		Press the  or  key until [Transparent Code] is displayed.
[Transparent Code]	↓	
		Press this key. The Transparent Code menu is selected.
[Digit4 2625]	↓	The hexadecimal number for & % is preset.
...		Pressing the  or  key changes the value of the current digit. (Digit 4 = left position, in this example: 2). Pressing the  key moves you to the next digit (the  key moves you back, if need be).
[Digit1 2626]	↓	
		2626 is selected as transparent code. From now on use the characters & & before programming the IDOL commands.
[Save as Setup?]		In addition this new value can be saved as setup value (using the  key), before the printer is turned ON LINE again.
[Online]		

9.10. Selection of Memory Distribution (Input Buffer)

This function enables the user to choose the distribution of the available RAM memory between input buffer and macro/download memory.

<u>Panel display</u>		<u>Notes</u>
[Online	]	 Turn the printer OFF LINE with this key.
[Menu Level 1	]	↓
. . .		 Press the  or  key until [Configuration] is displayed.
[Configuration	]	↓
		 Press this key. This selects the Configuration menu.
[Interface	]	↓
. . .		 Press the  or  key until [Input Buffer] is displayed.
[Input Buffer	]	↓
		 Press this key. This selects the Input Buffer menu.
[32 kB	]	↓
. . .		 Press the  or  key until the desired memory distribution is displayed. The input buffer size is specified in kilobyte (kB) or in percent of the installed memory.
[100 kB	]	↓
		 100 kB is selected as input buffer.
[Save as Setup?	]	↙ ↘
		  In addition this new value can be saved as setup value (using the  key), before the printer is turned ON LINE again.
[Online	]	

9.11. Feeder Selection (Tray)

This function enables the user to choose a particular feeder (cassette).

<u>Panel display</u>		<u>Notes</u>
[Online	]	 Turn the printer OFF LINE with this key.
[Menu Level 1	]	
...		Press the  or  key until [Paper Menu] is displayed.
[Paper Menu	]	 Press this key. This selects the Paper Menu.
[Stacker Select	]	
...		Press the  or  key until [Feeder Select] is displayed.
[Feeder Select	]	 Press this key. This selects the Feeder Select menu.
[Manual Feed	]	Manual Feed = currently adjusted default.
...		Press the  or  key until the desired feeder is displayed.
[Feeder 2	]	 Feeder 2 (Cassette 2) is selected.
[Save as Setup?	]	   In addition this new value can be saved as setup value (using the  key), before the printer is turned ON LINE again.
[Online	]	

Feeder assignment:

Manual Feed	Multipurpose Feeder
Feeder 1	first paper tray
Feeder 2	second paper tray (optional)
...	

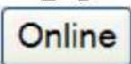
The following only applies if more than one feeder is installed:

Auto. 1+2	Automatic selection between feeders (the subset of feeders is settable, tray 1+2 = default)
Auto.Sel. Mode	Automatic selection between all feeders that are installed (Feeder Linking)

9.12. Stacker (Face Down or optional Face Up) Selection

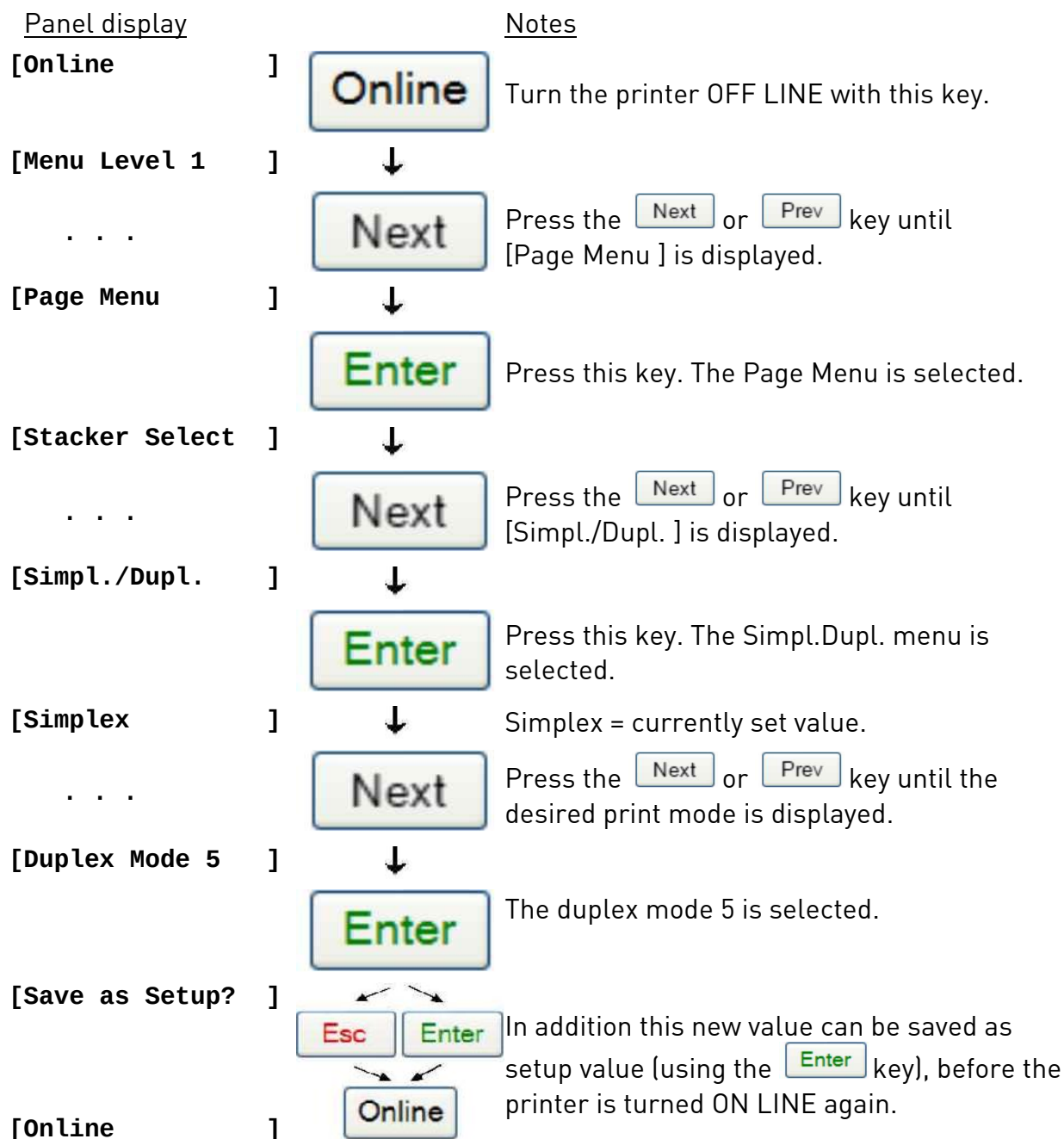
The printer prints the pages Face Down into the standard output bin (stacker).

If the Face Up Exit is installed (option), the Stacker Select panel function serves to select the lower or upper stacker (**Face Down** or **Face Up**).

Panel display		Notes
[Online]		Turn the printer OFF LINE with this key.
[Menu Level 1]	↓	
. . .		Press the  or  key until [Paper Menu] is displayed.
[Paper Menu]	↓	
		Press this key. The Paper Menu is selected.
[Stacker Select]	↓	
		Press this key. The Stacker Select Menu is selected.
[Lower Stacker]	↓	Lower Stacker = Current default.
. . .		Press the  or  key until the desired stacker is displayed.
[Upper Stacker]	↓	
		The printed pages will be collected in the upper stacker, printed side facing up.
[Save as Setup?]	 	In addition this new value can be saved as setup value (using the  key), before the printer is turned ON LINE again.
[Online]		

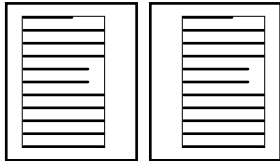
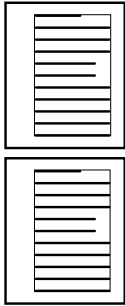
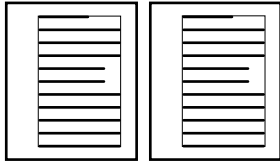
9.13. Print Mode Selection (Simplex/Duplex)

The prerequisite for this function is that the print system is equipped with a duplex unit. This panel function allows the user to choose between simplex and duplex. (Simplex = one-sided printing, Duplex = double-sided printing).



Information about the Print Mode command:

This command switches „intelligent“ printing on the front and rear side of a page on and off.

Duplex Mode	Description
0	Switches duplex print mode off
1	Duplex print mode long format-side, with rear side displacement *) 
2	Duplex print mode short format-side, without rear side displacement 
3	Duplex print mode long format-side, without rear side displacement for preprinted paper
4	Duplex print mode short format-side, without rear side displacement for preprinted paper
5	Duplex print mode long format-side, without rear side displacement 

*) Rear side displacement is presently not realized, for this reason the result is the same as using mode 5

9.14. Paper Size Selection

This function selects the size of the print page (print image).
 (This setting has priority over the tray selection, compare section Feeder Selection).

Panel display		Notes
[Online	]	Turn the printer OFF LINE with this key.
[Menu Level 1	]	
. . .		
[Paper Menu	]	
[Stacker Select	]	
. . .		
[Paper Size	]	
[Letter	]	Letter = currently adjusted default.
. . .		
[Legal	]	
[Save as Setup?	]	
[Online	]	

Online



Next



Enter



Next



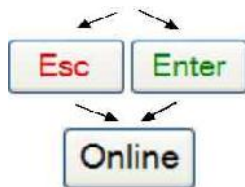
Enter



Next



Enter



9.15. Configuration of Text Margins

This function sets text margins. Margins are expressed in dots at the concerning edge of the paper.

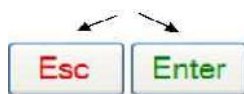
Panel display			Notes
[Online]	]		Turn the printer OFF LINE with this key.
[Menu Level 1]	]	↓	
...			Press the  or  key until [Page Menu] is displayed.
[Page Menu]	]	↓	
			Betätigen Sie diese Taste, dadurch wird das Konfigurationsmenü gewählt.
[Font Number]	]	↓	
...			Press the  or  key until [Margin] is displayed.
[Margin]	]	↓	
			Press this key. This selects the Margin configuration menu.
[Left]	]	↓	
...			Press the  or  key until the desired margin is displayed.
[from Right]	]	↓	
			Press this key if you want to configure the right margin.
[Digit4 0081]	]	↓	The currently set value is displayed.
...			Pressing the  or  key changes the value of the current digit. (Digit 4 = left position, in this example: 0). Pressing the  key moves you to the next position (the  key moves you back, if need be).

[Digit1 0087]



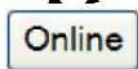
The right margin is changed to 87 dot.

[Save as Setup?]



In addition this new value can be saved as setup value (using the  key), before the printer is turned ON LINE again.

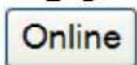
[Online]



9.16. Choosing Print Resolution

This function allows the user to choose the current print resolution

If, after a particular resolution is chosen, the print data stream indicates a different resolution (e.g. via a WINDOWS print driver), the second print resolution will be used only for that job.

<u>Panel display</u>			<u>Notes</u>
[Online	]		Turn the printer OFF LINE with this key.
[Menu Level 1	]	↓	
. . .			Press the  or  key until [Engine] is displayed.
[Engine	]	↓	
			Press this key. The Engine menu is selected.
[Resolution	]	↓	
			Press this key. The Resolution menu is selected.
[300 dpi	]	↓	
. . .			Press the  or  key until the desired resolution is displayed (z.B. 600 dots per inch) im Display erscheint.
[600 dpi	]	↓	
			600 dpi resolution is selected.
[Save as Setup?	]	↙ ↘  	In addition this new value can be saved as setup value (using the  key), before the printer is turned ON LINE again.
[Online	]		

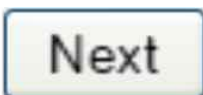
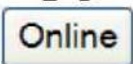
Remarks on choosing print resolution (Fonts):

By selecting 300 dpi resolution the printing system will be compatible for all applications (300 dpi data stream), also the 300 dpi font banks (bitmap writing) are available.

If 600 dpi resolution is chosen, the corresponding fonts must be loaded into the printer server (e.g. True Type fonts, scalable download fonts).

9.17. Print Direction Selection

This function selects the active print orientation (orientation of the whole printout including graphics, etc. on the paper).

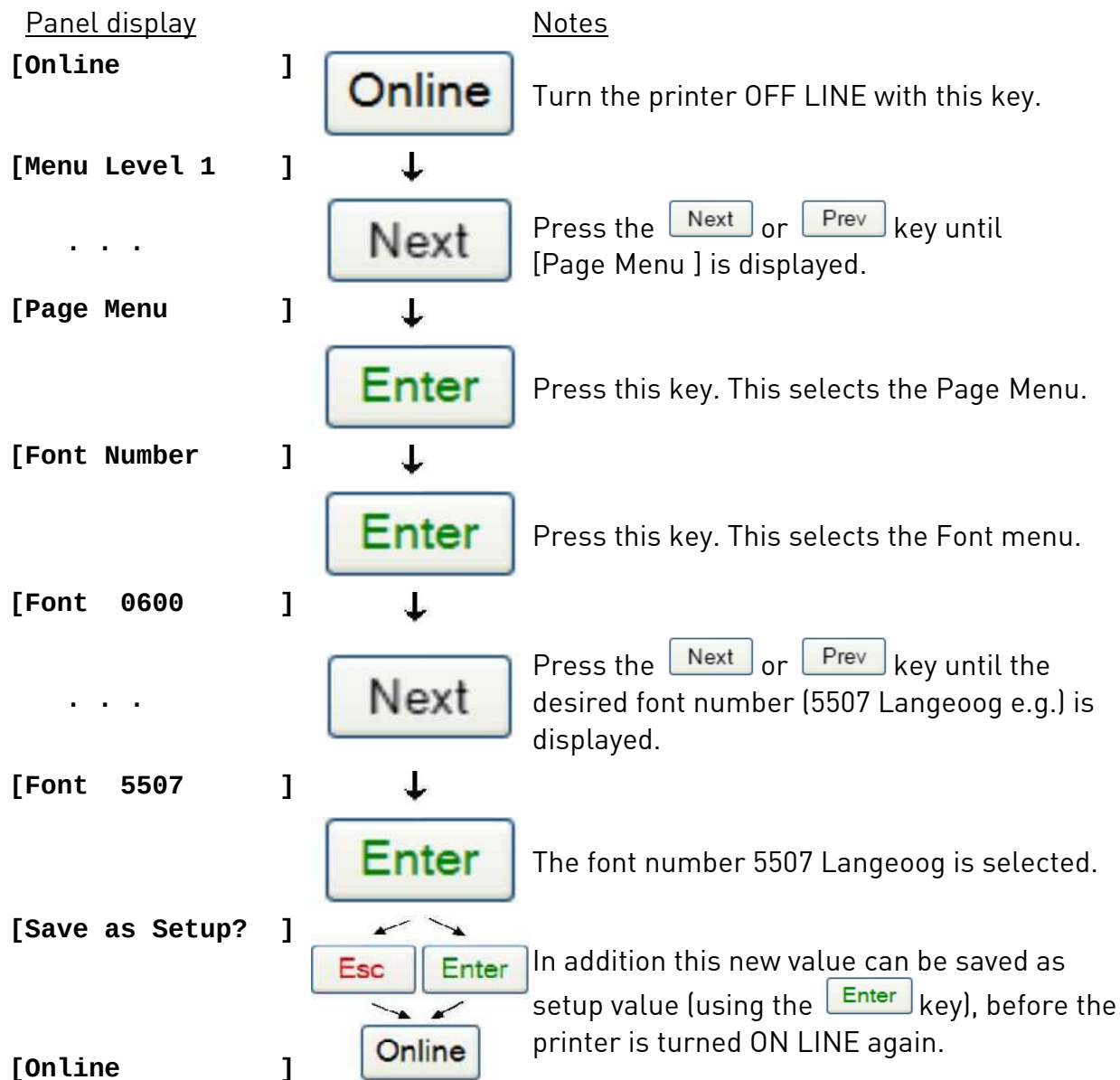
<u>Panel display</u>		<u>Notes</u>
[Online]		Turn the printer OFF LINE with this key.
[Menu Level 1]	↓	
...		Press the  or  key until [Paper Menu] is displayed.
[Paper Menu]	↓	
		Press this key. The Paper Menu is selected.
[Stacker Select]	↓	
...		Press the  or  key until [Print Direct.] is displayed.
[Print Direct.]	↓	
		Press this key. The Print Direction menu is selected.
[Print Direct. 0]	↓	The currently set print direction is displayed.
...		Press the  or  key until the desired print direction is displayed.
[Print Direct. 1]	↓	
		The print direction 1 = landscape is selected.
[Save as Setup?]	 	In addition this new value can be saved as setup value (using the  key), before the printer is turned ON LINE again.
[Online]		

Print direction assignment:

- Print direction 0 = Portrait (upright format)
- Print direction 1 = Landscape (horizontal format)
- Print direction 2 = Portrait upside down
- Print direction 3 = Landscape upside down

9.18. Font Selection

This function selects the active font. Select a font number out of the list of available fonts.



The **SOLID 52 A4 standard equipment** contains the following **fonts**:

<u>Font no.</u>	<u>Font width</u>	<u>Font height</u>	<u>Font name</u>
0600	10	12	Kurilen
0602	10	12	Kurilen Italic
0610	12	10.1	Kurilen
1710	12	10.1	Kurilen Italic
4508	P	8.1	Helgoland
4510	P	10	Helgoland
4714	P	14.4	Helgoland Bold
5507	20	7	Langeoog
5508	16.6	7.9	Langeoog
5509	15	9.1	Langeoog
6610	10	10.1	Juist Monosp.
9210	P	10.1	Tasmanien
9310	P	10.1	Tasmanien Italic
2000	P	SC	Tasmanien
9900	P	SC	Neuwerk

Resumption of this standard font list see next page.

Explanations:

Font width:

Character distance in CPI (Characters Per Inch).

P = proportional, (meaning that each character has an individual width).

Font height:

Font height from the lowest descender to the upper edge of the highest character, measured in graphical points (1/72 inch).

SC = scalable.

	<u>Font no.</u>	<u>Font width</u>	<u>Font height</u>	<u>Font name</u>
	0050	SC		Plakatschrift
	0590	SC		OCR /B
	0591	SC		OCR /A
	6600	SC		Juist Monospaced
	0699	SC		Kurilen
	1700	SC		Kurilen Italic
	1800	SC		Kurilen Bold
	1900	SC		Kurilen Bold Italic
	5500	SC		Langeoog
	5600	SC		Langeoog Bold
	5700	SC		Langeoog Italic
	5800	SC		Langeoog Bold Italic
	2100	P	SC	Texel Bold
	2200	P	SC	Texel Italic
	2300	P	SC	Texel Bold Italic
	9800	P	SC	Neuwerk Italic
	9500	P	SC	Neuwerk Bold Italic
	9600	P	SC	Neuwerk Bold
	0060	SC		Plakatschrift
PCL 5 compatible	9501	P	SC	Neuwerk-II Condensed Italic
	9601	P	SC	Neuwerk-II Condensed Bold Ital.
	9801	P	SC	Neuwerk-II Condensed Bold
	9901	P	SC	Neuwerk-II Condensed
	0530	P	SC	PiktoWin
	5100	P	SC	Amrum
	5200	P	SC	Amrum Bold
	5300	P	SC	Amrum Italic
	7500	P	SC	Antigua
	7700	P	SC	Antigua Bold
	7800	P	SC	Antigua Italic
	7900	P	SC	Antigua Bold Italic
	9199	P	SC	Tasmanien-II Bold Italic
	9299	P	SC	Tasmanien-II
	9399	P	SC	Tasmanien-II Italic
	9499	P	SC	Tasmanien-II Bold

Notes: Additional fonts can be selected from the font catalogue depending upon the memory capacity.

You can use the panel function Printing the Font List (see section 9.19) to generate a list of all fonts installed to the printer.

9.19. Printing the Font List

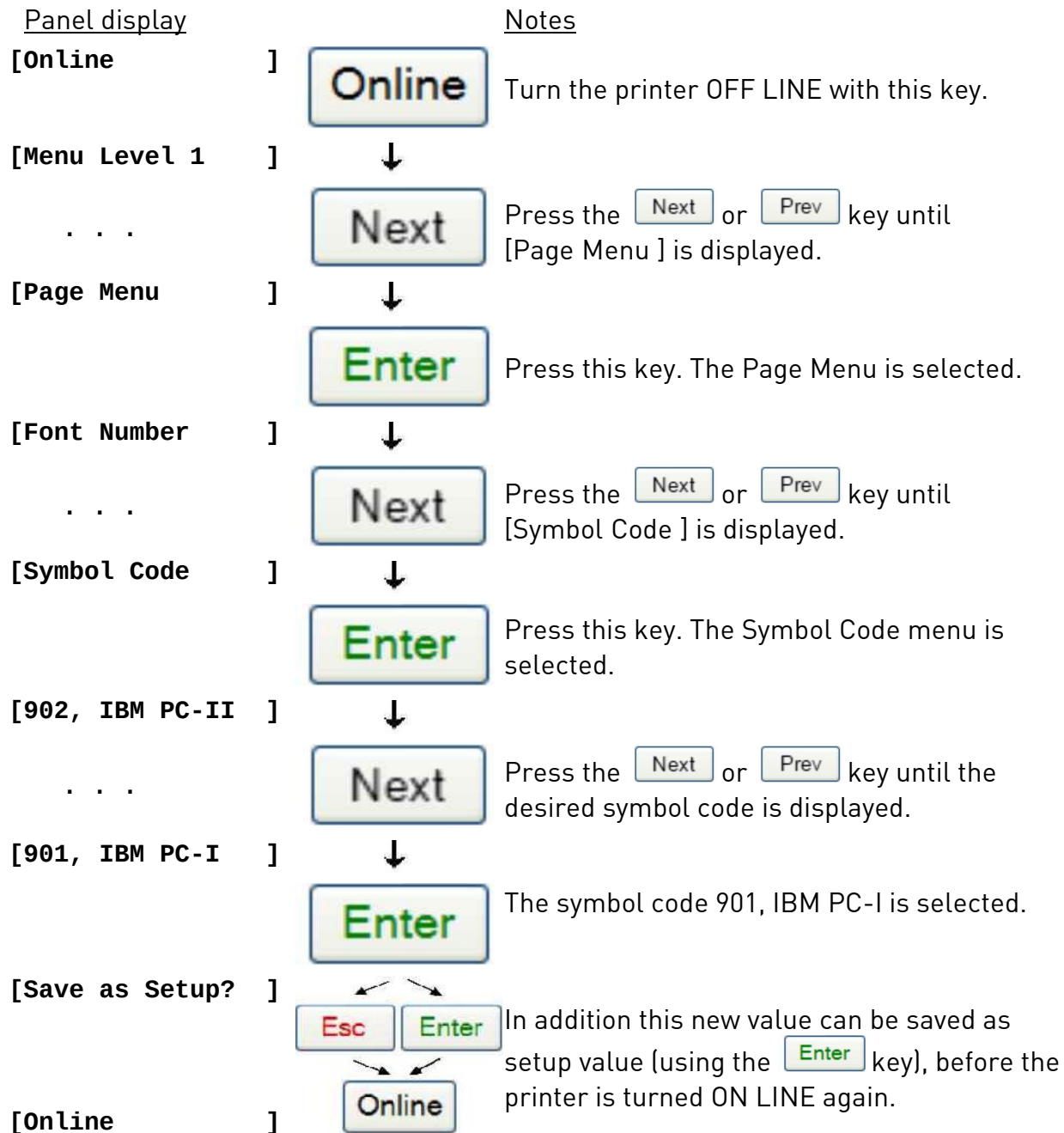
This function generates a list of all fonts installed to the printer.

The font list shows demo prints of all fonts and, in addition, the concerning PCL selection commands. These commands contain information on font width and font high (see panel function Font Selection, too).

<u>Panel display</u>			<u>Notes</u>
[Online	]		Turn the printer OFF LINE with this key.
[Menu Level 1	]	↓	
			Press this key. Menu Level 1 is selected.
[Status Sheet	]	↓	
. . .			Press the  or  key until [Font List] is displayed.
[Font List	]	↓	
			The font list is printed.
[Font List	]	↓	
			After pressing this key the printer is ready to print again.
[Online	]		

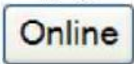
9.20. Symbol Code Selection

This function selects the active symbol code.



9.21. Text Orientation Selection

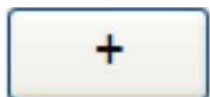
This function selects the active text orientation.

<u>Panel display</u>		<u>Notes</u>
[Online	]	 Turn the printer OFF LINE with this key.
[Menu Level 1	]	↓
. . .		 Press the  or  key until [Page Menu] is displayed.
[Page Menu	]	↓
		 Press this key. The Page Menu is selected.
[Font Number	]	↓
. . .		 Press the  or  key until [Orientation] is displayed.
[Orientation	]	↓
		 Press this key. The Orientation menu is selected.
[Orientation 0	]	↓
. . .		 Press the  or  key until the desired text direction is displayed.
[Orientation 1	]	↓
		 The orientation 1 = landscape is selected.
[Save as Setup?	]	 
[Online	]	 In addition this new value can be saved as setup value (using the  key), before the printer is turned ON LINE again.

Text orientation assignment: Orientation 0 = Portrait (upright format)
 Orientation 1 = Landscape (horizontal format)
 Orientation 2 = Portrait upside down
 Orientation 3 = Landscape upside down

9.22. Lines per Inch Setting (Line Spacing)

This function sets the number of lines per inch. This setting is effective only in case of using the printer as a line printer. With a small number of lines per inch, line spacing will be relatively large. (Ref. IDOL Programming Manual).

Panel display		Notes
[Online]		Turn the printer OFF LINE with this key.
[Menu Level 1]	↓	
. . .		Press the  or  key until [Page Menu] is displayed.
[Page Menu]	↓	
		Press this key. This selects the Page Menu.
[Font Number]	↓	
. . .		Press the  or  key until [Line Spacing] is displayed.
[Line Spacing]	↓	
		Press this key. This selects the Line Spacing configuration menu.
[Digit4 006.5]	↓	6.5 lpi = currently set value. (lines per inch).
. . .		Pressing the  or  key changes the value of the current digit. (Digit 4 = left position, in this example: 0). Pressing the  key moves you to the next digit (the  key moves you back, if need be).
[Digit1 010.0]	↓	
		The number of lines per inch was increased to 10 lpi.
[Save as Setup?]	 	In addition this new value can be saved as setup value (using the  key), before the printer is turned ON LINE again.
[Online]		

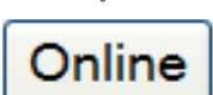
9.23. Number of Characters per Inch Setting (Character Spacing)

This function sets the number of characters per inch. This setting is effective only in case of using a line printer emulation. With a small number of characters per inch, character spacing will be relatively large. (Ref. IDOL Programming Manual).

Panel display		Notes
[Online]		Turn the printer OFF LINE with this key.
[Menu Level 1]	↓	
...		Press the  or  key until [Page Menu] is displayed.
[Page Menu]	↓	
		Press this key. This selects the Page Menu.
[Font Number]	↓	
...		Press the  or  key until [Char. Spacing] is displayed.
[Char. Spacing]	↓	
		Press this key. This selects the configuration menu.
[Digit4 0 <u>13.3</u>]	↓	13.3 cpi = currently set value. (characters per inch).
...		Pressing the  or  key changes the value of the current digit. (Digit 4 = left position, in this example: 0). Pressing the  key moves you to the next digit (the  key moves you back, if need be).
[Digit1 012. <u>0</u>]	↓	
		The number of characters per inch was reduced to 12 cpi.
[Save as Setup?]	↙ ↘  	In addition this new value can be saved as setup value (using the  key), before the printer is turned ON LINE again.
[Online]		

9.24. Clearing the Input Buffer (Cancel Job)

This function permits the resumption of a print job at a particular page after a print interruption (e.g. paper jam). The data contained in the input buffer before the interruption are cleared.

<u>Panel display</u>		<u>Notes</u>
[Online	]	 Turn the printer OFF LINE with this key.
[Menu Level 1	]	↓  Press this key. Menu Level 1 is selected.
[Status Sheet	]	↓
. . .		 Press the  or  key until [Cancel Job] is displayed.
[Cancel Job	]	↓  All data contained in the input buffer will be cleared.
[Cancel Job	]	↓
[Online	]	 After pressing this key the printer is ready to print again.

9.25. Generating Testsheets (Sliding Pattern)

This function generates a series of test prints without sending data to the printer.

These test prints facilitate error analysis.

<u>Panel display</u>			<u>Notes</u>
[Online]	]		Turn the printer OFF LINE with this key.
[Menu Level 1]	]	↓	
			Press the  or  key until [Page Menu] is displayed.
[Status Sheet]	]	↓	
. . .			Press the  or  key until [Sliding Pattern] is displayed.
[Sliding Pattern]		↓	
			A series of test prints is generated.
[Sliding Pattern]		↓	
[Online]	]		The printer is turned ON LINE again.



The printing out of test prints can be stopped by pressing the  key.

9.26. Hexdump Mode Activation

In the Hexdump Mode the printer prints all characters received via interface without any interpretation (hexadecimal coded).

This mode helps with error diagnosis. The Hexdump Mode can be activated only temporarily.

<u>Panel display</u>			<u>Notes</u>
[Online	]		Turn the printer OFF LINE with this key.
[Menu Level 1	]	↓	
			Press this key. Menu Level 1 is selected.
[Status Sheet	]	↓	
. . .			Press the  or  key until [Hexdump] is displayed.
[Hexdump	]	↓	
			The Hexdump Mode is activated.
[Hexdump	]	↓	
[Online	]		After pressing this key the printer is ready to print again.

Note: By activating the normal print mode (see next page) or by turning the printer off and on again the printer can be taken out of Hexdump Mode. Time between turning the printer off and on again should be at least 15 seconds.

9.27. Normal Print Mode Activation (incl. FORM FEED)

The normal print mode suspends the Hexdump Mode. This function is activated, when a print job must be continued without turning the printer off and on again.

In addition to that the function “Normal Print Mode Activation” is used to produce a FORM FEED.

<u>Panel display</u>			<u>Notes</u>
[Online]	]		Turn the printer OFF LINE with this key.
[Menu Level 1]	]	↓	
			Press this key. Menu Level 1 is selected.
[Status Sheet]	]	↓	
...			Press the  or  key until [Normal Print/FF] is displayed.
[Normal Print/FF]	]	↓	
			The normal print mode is activated.
[Normal Print/FF]	]	↓	
			After pressing this key the printer is ready to print again.
[Online]	]		

Note: After activating the normal print mode a FORM FEED is released automatically and one sheet is put out. This is necessary because after a test in the Hexdump Mode it is possible that data can remain in the input buffer unintentionally. (Cause: in the Hexdump Mode no control characters are evaluated and no FORM FEED is effected).

10. Operator Maintenance

In order to run the printer always on its highest quality level, it is necessary to perform regularly simple cleaning operations, and to occasionally replace certain components.

These operations can be performed by a MICROPLEX trained operator. A not trained person is not allowed to perform these operations.

10.1. Printer Cleaning



For safety pull out the mains plug first. Make sure the elements that are to be cleaned have cooled down.



Please be especially careful to avoid damaging mechanical or electronic modules.

Do not use detergents, or any other devices or tools not mentioned in this manual to avoid damages and unnecessary costs of repairs.

10.1.1. Cleaning the Printer Cabinet

Soilings like dust, grease or similar things can be removed with a soft, lint-free cloth. If necessary the cloth can be moistured with water or a neutral detergent. Inside the printer dust or paper dust can be removed best with a soft (non-metallic) brush.

11. Troubleshooting



When an error occurs, a corresponding error message is displayed in the control panel (see section 11.3).

Please address the problems described in this chapter yourself (especially the consumable replacement).

Please regard the following subjects if an opening of the printer becomes necessary:



- While operating the printer components inside the device will heat up. Take care that you do not burn your fingers when removing a paper jam.

- Make sure all covers of the device are completely closed afterwards.



Any others but the troubles described on the following pages are only to be repaired by a MICROPLEX authorized operator or a service engineer.

When reporting a problem to your service engineer, please give him the exact error message. That helps to localize the error more quickly.



If an error message indicates a paper jam, a print repetition will be necessary.

The printer is provided with an automatic jam safety routine to prevent a loss of information.

This automatically jam safety routine can also be switched off, if the user wants to take up the print job at a passage chosen by himself (see section 9.24 Clearing the Input Buffer).

11.1. Error during the Print Process

<u>Defect</u>	<u>Remedy</u>
Printer does not work	- If your printer is not responding although the device is switched on, first make sure: • The power cord is plugged into the printer and a properly grounded electrical outlet. • The electrical outlet is not turned off by any switch or breaker. • Other electrical equipment plugged into the outlet is working. • The printer cable is securely attached to the printer and the host computer, print server, option, or other network device. Once you've checked each of these possibilities, turn the printer off and back on. This often fixes the problem. - Make sure all covers of the device (e.g. the printer's door) are completely closed. - Pay attention to the panel messages (see section 11.3). - Refill paper cassettes with paper of suitable size (see chapter 4).
Frequent paper jams	- After any paper jam, make sure all the jammed paper has been removed completely from the paper paths. - Carefully read the information in section 11.4: Print Media Jam.

If the remedies above are not successful please switch off the device and contact a MICROPLEX authorized service engineer.

11.2. Reduced Print Quality

Defect

Printout too light

Remedies

- If the message [Toner Empty !] is displayed, replace the toner cartridge (see section 4.2: Toner Cartridge Replacing).
 - Do not use damp paper.
 - If you must print on special paper, please consider finding the most appropriate paper type.
 - Check the environmental conditions and change them if necessary.
Make sure you know the admissible values for relative humidity, temperature etc..
See also section 2.4: Printer Installation.
- If the problem couldn't be solved by the steps described above:
Replace the imaging unit
(see section 4.3: Imaging Unit Replacing).

Toner residues on the back side of the printouts

- Clean the printer

If the remedies above are not successful, please contact a MICROPLEX authorized service engineer.

11.3. Error Messages

The following gives examples of error messages that can be displayed in the control panel of the SOLID 52 A4 (Touchscreen; Basics of printer operation are described in chapter 6 and the following chapters).

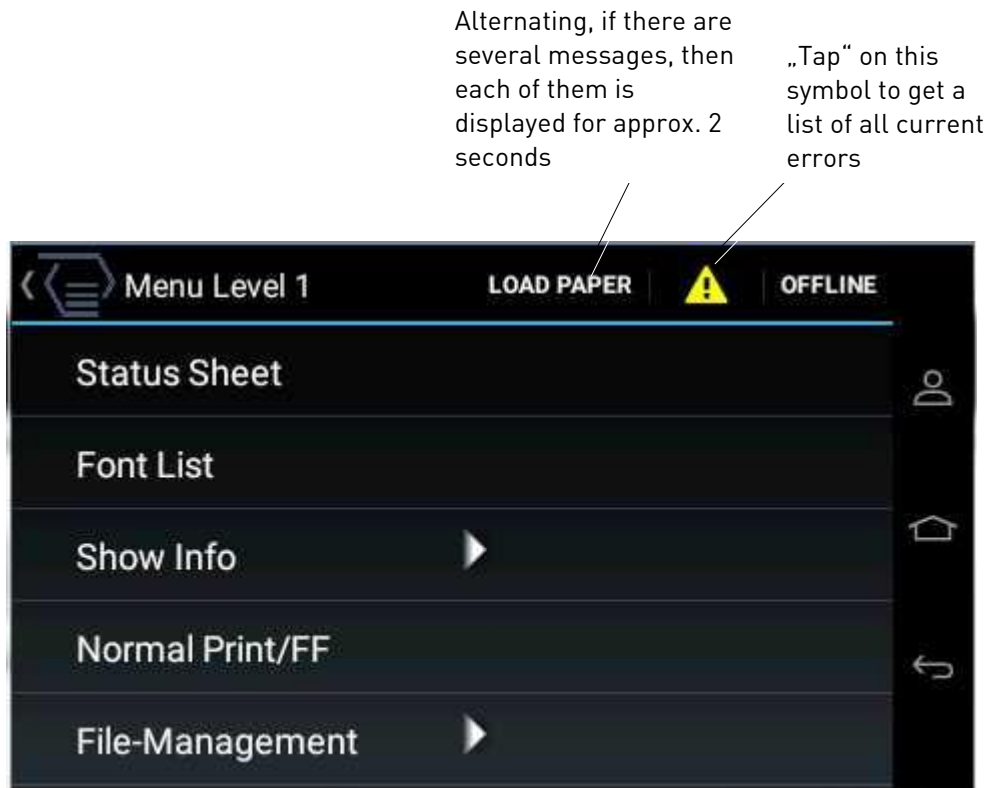


Fig. 11.3.a Status Messages and Error Messages are displayed on the screen

By displaying the message in clear the device points to the reason for the error.

<u>Panel message</u>	<u>Description</u>	<u>Remedies</u>
e.g. [Cover Open]		Close the the rear cover of the printer (compare section 11.4.5).

If the remedies described in the following sections are not successful, please call a MICROPLEX authorized service engineer.

11.3.1. Consumables Missing

<u>Panel message</u>	<u>Description</u>	<u>Remedies</u>
e.g. [Paper End	] Paper missing in feeder.	Fill the empty paper feeder (see section 4.1: Print Media Handling).
[Toner Low	] This is a warning message	The remaining toner approaches the minimum level
[Toner Empty or [Cartridge Lifetime	] The toner supply is under the minimum level.]	The toner cartridge has to be replaced (see section 4.2: Toner Cartridge Replacing).
[Drum Near End or	] This is a warning message	The imaging unit has to be replaced in the near future.
[Change Drum or [ReplaceDeveloper	] The drum and developer are used up .]	The imaging unit has to be replaced now (see section 4.3).

If the remedies described in the following sections are not successful, please call a MICROPLEX authorized service engineer.

11.4. Print Media Jam

By carefully selecting print media and loading them properly, you should be able to avoid most jams. See the following for instructions on loading print media.

11.4.1. Avoiding Jams

Storing print media

Use the following guidelines to avoid paper feeding problems and uneven print quality.

- Store print media in an environment where the temperature is approximately 21°C (70°F) and the relative humidity is 40%.
- Store cartons of paper on a pallet or shelf rather than directly on the floor.
- If you store individual packages of paper out of the original carton, make sure they rest on a flat surface so the edges do not buckle or curl.
- Do not place anything on top of paper packages.

Loading print media



Please regard the following information to avoid a paper jam:

- Check if the paper has been inserted correctly (see section 4.1).
- Check if the paper is impeccable (the paper must not be creased, damp, dirty or bent).
- Make sure the paper cassettes are not too full (regard the marks at the interior sides of the paper cassettes, see section 4.1.1).
- Check if the adjustable guides of the paper cassettes are adjusted right.
- Do not fill different kinds of paper into one cassette.
- The paper paths / paper cassettes must be opened and closed carefully.

11.4.2. Clearing Jam at one of the Cassettes

1. Pull the cassette (respectively the cassettes) completely out of the printer.

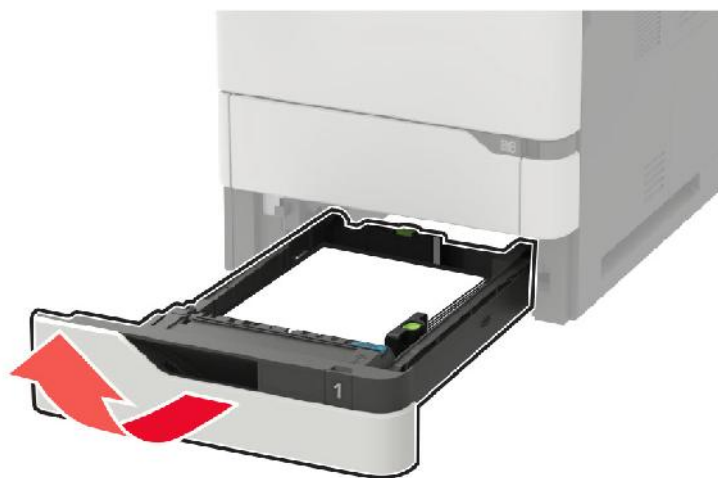


Fig. 11.4.2.a Pulling the cassette out of the printer

2. Examine the interior from which the cassette has been taken out to find jammed paper.
3. Pull jammed paper from the printer cassette slot.



Fig. 11.4.2.b Pulling jammed paper

NOTE: Make sure that all paper fragments are removed.

4. Remove crumpled paper from the cassette, if need be (compare the following figure).

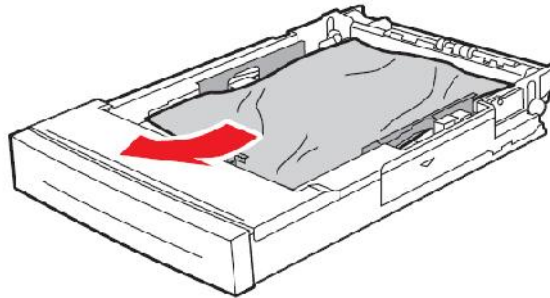


Fig. 11.4.2.c Removing crumpled paper
(in this figure only a similar cassette is shown)

11.4.3. Clearing Jam in the Multipurpose Feeder

1. First remove the stack of paper from the multipurpose feeder.



Fig. 11.4.3.a Removing the stack of paper

2. Now remove the jammed paper from the multipurpose feeder.

NOTE: Make sure that all paper fragments are removed.

3. Straighten out the “new” paper (compare figure 11.4.3.b).

Do not load bent or wrinkled print media.

4. Align the edges of the paper pile at a level surface.

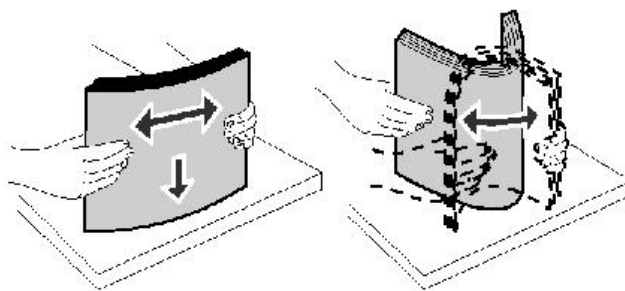


Fig. 11.4.3.b Fanning and aligning the paper pile

5. Reload the paper to the multipurpose feeder.



Fig. 11.4.3.c Reloading the stack of paper

11.4.4. Clearing Jam inside the Printer



While operating the printer components inside the device will heat up. Take care that you do not burn your fingers when removing a paper jam.

To prevent damage from electrostatic discharge, touch any exposed metal frame of the printer before accessing or touching interior areas of the printer.

1. Open the printer's top door.



Fig. 11.4.4.a Opening the top door

2. Remove the toner cartridge from the printer. Then place it on a flat surface.

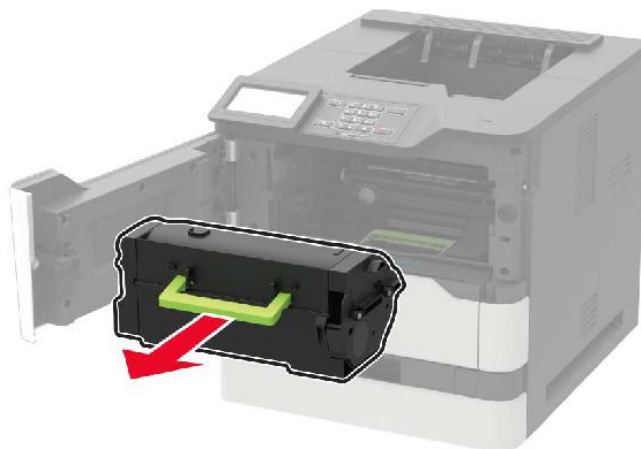


Fig. 11.4.4.b Removing the toner cartridge

3. Remove the imaging unit from the printer.



Fig. 11.4.4.c Removing the imaging unit



Do not leave the imaging unit (respectively the photoreceptor drum) exposed to light for more than 10 minutes! Extended exposure to light may cause print quality problems. Do not touch the photoreceptor drum! Doing so may affect the quality of future print jobs.



Fig. 11.4.4.d Unprotected area of the photoreceptor drum

4. Pull out the duplex unit.

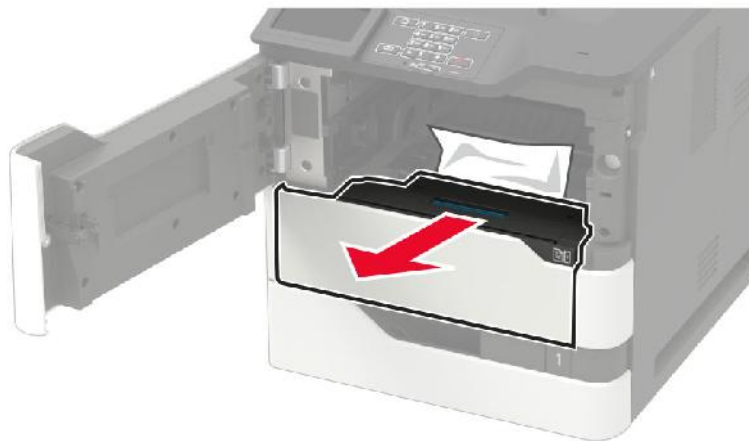


Fig. 11.4.4.e Pulling the duplex unit out

5. Remove the jammed paper from the printer.



Fig. 11.4.4.f Removing the jammed paper

Please note: Make sure that all paper fragments are removed.

6. Insert the duplex unit.

7. Insert the imaging unit.



Fig. 11.4.4.g Inserting the imaging unit

8. Insert the toner cartridge.



Fig. 11.4.4.h Inserting the toner cartridge

9. Close the door of the printer.

11.4.5. Clearing Jam at the Rear of the Printer



While operating the printer components inside the device will heat up. Take care that you do not burn your fingers when removing a paper jam.

Allow any surface to cool before touching it.

To prevent damage from electrostatic discharge, touch any exposed metal frame of the printer before accessing or touching interior areas of the printer.

1. Open the rear cover (socalled door C).

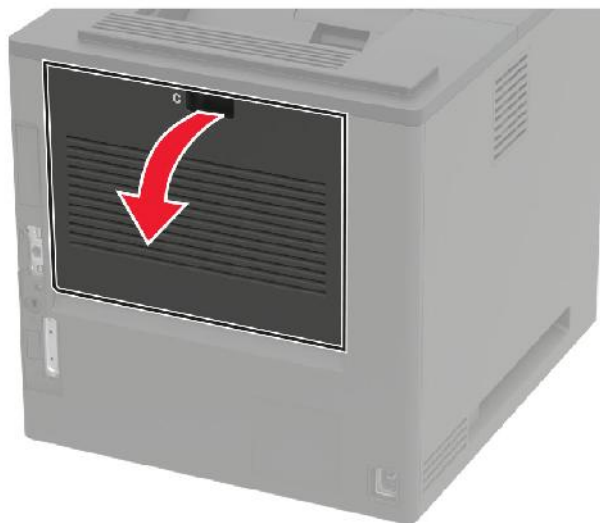


Fig. 11.4.5.a Opening the rear cover

Please check the three areas, where a Paper Jam may have happened:

- Fuser area
- Below the fuser area
- Duplex area

2. Use the following figures to find any place of Paper Jam and then remove the jammed paper from any of the three areas.

Take care that all paper fragments are removed.



Fig. 11.4.5.b Removing jammed paper from the fuser area

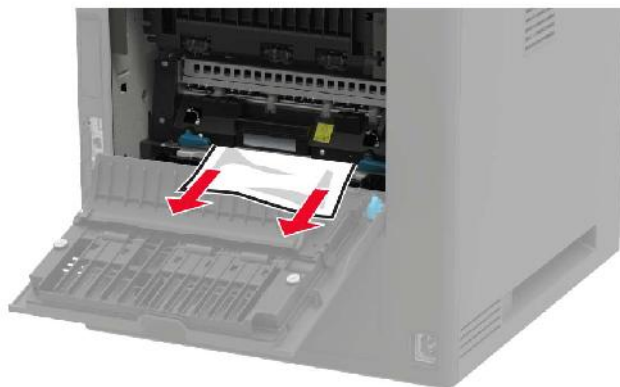


Fig. 11.4.5.c Removing jammed paper from below the fuser area



Fig. 11.4.5.d Removing jammed paper from the duplex area

3. Close the printer's rear cover (socalled door C).

11.5. Print Repetition after an Error

The printer is provided with an automatic jam safety function to prevent a loss of data.

When an error occurs, all the pages on the paper path will be printed again. This ensures that no data will get lost.

The exact number of pages to repeat depends on the format length and the position where the error occurred on the page.

This automatic jam safety function can be switched off (by changing the EEPROM - configuration) if the user wants to resume the print job at a position he chooses himself.

In addition to this see panel function Clearing the Input Buffer (section 9.24).

12. Measures for Transport and Shipping (Repacking)

The Printer is shipped with special packing material and fixing measures.

It is recommended to store the boxes and those packing materials.



In case of further shipping or returning of the products they must be repacked in the original way in order to avoid damaging during transportation.

The following list gives you an overview of the working steps necessary for repacking. Pay attention to the notices located on the products and the hints given in the Service Manual as well.



If you are not familiar with any of the working steps please ask your service engineer or your supplier.

- Remove the printer's optional devices
(f.e.: optional Feeder, Face Up Exit ...).
- Remove the Toner Cartridge.
Put the Toner Cartridge into its original box.
- Remove the Imaging Unit from the printer.
Put the Imaging Unit into its original box.
- Lock all moveable parts of the printer (use all original transport safety devices, adhesive fasteners and so on).

Repack all items in their original packing material and ship them in the original boxes.

13. Specifications

Print technology:	non-impact, Laser, OPC, heat/pressure fixing	
Print speed:	up to 52 pages/min A4 (simplex)	
Resolution:	300/600 dpi (dots per inch, horizontal and vertical)	
Paper size:	A6 to A4 (max. format = "Legal": 8.5 x 14 inch)	
Paper weight:	60 to 203 g/m ²	
Paper feed:	Cassette 1:	550 sheets of 75 g/m ² paper
	Multipurpose feeder:	100 sheets
	optional:	
	Cassette :	550 sheets of 75 g/m ² paper
	Cassette :	550 sheets of 75 g/m ² paper; lockable
	Cassette :	2100 sheets of 75 g/m ² paper (+ Caster Base)
Stacker:	Face down into the standard output bin (550 sheets)	
	optional: Face Up Exit	
	Output Expander	
Interfaces:	LAN:	Ethernet 10/100/1000 Mbit (TCP-IP)
	serial:	USB 2.0
	optional:	
	parallel:	IEEE 1284 (Centronics)
	serial:	RS232, RS422
		MP-BUS, GPIO-Interface (SPS-Control)
		WiFi
Size:	(the measurements only include the standard printer without options)	
	width:	appr. 430 mm (16.9 inch)
	depth:	appr. 520 mm (20.5 inch)
	height:	appr. 450 mm (17.7 inch)
Weight:	appr. 26 kg (57 lbs; without options)	

Environment:	Temperature:	+10 to +32 °C (50 to 90 °F) (operating)
		0 to +40 °C (storage temperature)
	Rel. atmospheric humidity:	8 to 80 %
Mains connection:	110-120 V AC, 60 Hz North America	
	220-240 V AC, 50 Hz Europe, United Kingdom	
Power admission:	appr. 0.8 kVA	

Costs per Page for MICROPLEX Print Systems

The term "costs per page" is the most frequently used one in connection with the purchase of a printer. Nevertheless this term is the one with the biggest lack of definition.

The distributors normally attach great importance to having small values for the costs per page. The user normally wants to have a value that is as realistic as possible.

There isn't any generally valid rule to calculate the costs per page. Therefore values given by different manufacturers are very often not comparable.

The values given by MICROPLEX are based on the utilization time of the so-called consumables of the printer. There isn't any generally valid rule for this calculation, either. Therefore MICROPLEX has fixed the definition of consumables as follows:

1. Consumables

Consumables are parts or substances which the user can exchange or refill without tools.

MICROPLEX understands by this definition that the user can decide by visible criteria when he should exchange or refill consumables. The working steps can be done by the user in accordance with the manual without the usage of tools.

Consumables can be different depending on the printer type.
The most important consumable for example is **toner**.

Usually the utilization time of these materials is given as a number of pages (DIN A4). These values often refer to the print density (3%, 4%, or 5%) which is given as an application specific parameter.

Usually a value of 5% print density is defined, very seldom is 4% used.

In the case of a low print density (e.g. 3%) the utilization time increases, in the case of a high print density (e.g. 10%) the utilization time is decreased.

Therefore the utilization time is strongly dependant upon the application. This applies especially to all print systems used in start/stop operation frequently.

Experience proves that in professional applications a print density of higher than 5% is usually reached. For a delivery note containing a form and some bar codes a print density of 8 - 10% is quite normal.

There are further parts that must be exchanged in addition to the consumables during the life time of a print system. MICROPLEX divides these additional parts into two categories:

2. Application specific wearing materials

Application specific wearing materials are parts which have to be exchanged by a service engineer or a trained operator. The criterias for the exchange aren't always easily recognizable for a user. Some of the criterias require measuring techniques or the experience of a service engineer or operator.

In a normal application, parts of this category are:

- fuser unit
- process unit (drum, OPC)
- ozone filter

3. Spare parts

Spare parts are exchanged by the service engineer, when they fail.

Examples for spare parts are:

- couplings
- electronic assemblies
- rollers

Depending on the application some parts may change categories under certain circumstances. If for example very rough paper is used, the rollers can become an (application specific) wearing part.

It's a fact, that the right time to exchange a component depends not only on the failure of a component but also on a possible loss of print quality in the printouts.

MNPSQ = Mean Number of Prints with Specified Quality (**SQ**).

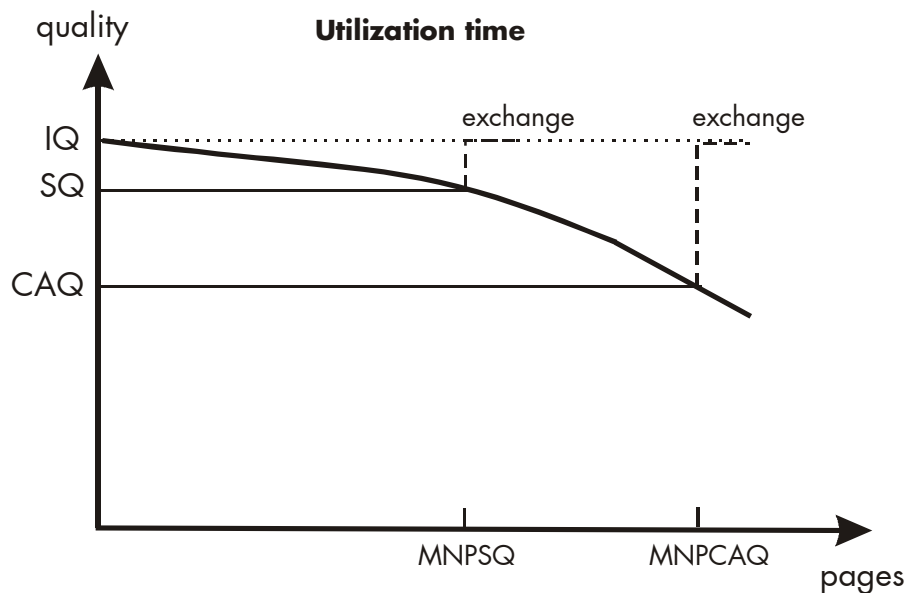
This value is often associated with "Lifetime". This term is not correct. MNPSQ describes the period of time in which a defined print quality is maintained.

The print quality is determined by the values for

- print density
- background darkness
- homogeneity

The value **IQ** (Initial Quality) is used to designate the print quality that is reached with a new printer.

CAQ (Customer Acceptable Quality) is a purely subjective lower limit which a respective customer is willing to accept the print quality. An exchange of parts is only then necessary even if the MNPSQ is already exceeded.



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