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1. General Information

1.1 Information about These Instructions

These instructions are only valid for the **smart**PRINTER described.

These instructions will support you in

- avoiding hazards,
- preventing downtimes and
- ensuring or increasing the service life of this product.

Hazard warnings, safety rules and the information in these instructions must be observed without exception.

This publication may contain technical inaccuracies or typographical errors. The information contained is reviewed regularly; changes are incorporated into later versions.

Improvements or changes to the product or the programs can be made at any time.

Ensure that you are working with the current documentation. These instructions and further technical support are available for download at the following address:

www.wago.com

2. Guidelines, Standards and Approvals

2.1 Declaration of Conformity

This device has been developed and fabricated in conformity with the following EU Directives:

Low Voltage Directive	2014/35/EU
EMC Directive (electromagnetic compatibility)	2014/30/EU
RoHS Directive	2011/65/EU

It has been tested according to the following harmonized standards:

EMC Standard:	EN 55022:2010/AC:2011 ClassA
	EN 61000-3-2: 2014
	EN 61000-3-3: 2013
	EN 55024: 2010

LVD Standard:	EN 60950-1: 2006 /A11:2009 /A1:2010 /A12:2011 /A2:2013
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The requirements for CE marking are met.

This declaration loses its validity if the machine or purpose of use changes without coordination with WAGO.

3. Liability/Warranty

3.1 Liability

WAGO GmbH & Co. KG accepts no liability in the event of structural modifications by third parties. The manufacturer's declaration becomes invalid.

Only original parts may be used for repairs and maintenance.

WAGO GmbH & Co. KG accepts no liability for replacement parts not tested and approved by WAGO GmbH & Co. KG.

We reserve the right to make technical changes.

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3.2 Warranty

Note the General Sales and Delivery Conditions (GTC) of WAGO Kontakttechnik Gesellschaft mbH.

GTC text excerpt on liability for defects:

“... certain purpose or a certain point of use of the purchased items. Apart from that, the warranty claim does not extend to natural wear or to damage incurred after the transfer of risk due to incorrect or negligent handling, unsuitable equipment and electrical and/or mechanical influences which exceed normal usage. Furthermore, no claims from liability for defect exist for wear parts.”

The following are stocked as wear parts: **print roller, print head.**

3.3 Product Monitoring

With **smart**PRINTER, WAGO GmbH & Co. KG offers you a product of the highest technical level, adapted to the current standards.

Notify us immediately of recurring failures or faults.

3.4 Language of the Instructions

The original version of these instructions was written in the official EU language of the manufacturer of this printer.

Translations into further languages are translations of the original version. The legal regulations of the Directive apply to this.

3.5 Copyright

Individual reproductions, e.g. copies and printouts, may only be made for private use. Making and distributing further reproductions is only allowed with express permission of WAGO GmbH & Co. KG. The user is personally responsible for compliance with the legal regulations and can be held liable in the event of misuse.

WAGO GmbH & Co. KG holds the copyright to these instructions.

4. Use/Operating Personnel

4.1 Intended Use

The printer has been constructed according to the state of the art and standard safety engineering practice. Despite this, there is always a risk to life and limb to the user or third parties or of damage to the device or other property when the device is used.

The printer may only be used when it is in a technically sound condition and when used as intended, taking into account the safety and risk information, in compliance with these operating instructions.

The printer is designed solely for printing on suitable printing materials approved by the manufacturer. Uses other than the intended use described here, or going beyond the scope described here, are considered "improper use."

The manufacturer/supplier is not liable for any damage resulting from improper use; this risk is borne solely by the user.

Intended use also includes following these instructions.

4.2 Who Is Permitted to Operate This Printer?

Anyone who has read and understood these instructions is permitted to operate the printer. The printer must not be operated by children or by frail or infirm persons without supervision.

5. Safety Information

5.1 Safety Markings

Warning and mandatory action symbols are safety markings that warn of a risk or hazard. Instructions in this manual concerning particular hazards or situations related to the printer must be followed. They serve to prevent accidents and protect health.



The “general mandatory sign” indicates that you should pay attention. Marked instructions in this manual merit your particular attention. They contain information on functions, settings and procedures. Failure to pay attention to them can lead to personal injury or faults in this printer or the environment.



Warning against dangerous location



Warning against high voltage



Warning against hot surface



Do not touch!



Warning against hand injuries

5.2 Symbols and Information on the Type Plate



CE marking
Proof of conformance of the product for full compliance with the EU directives applied.



UL certificate
Proof of conformity of the product with the safety regulations of the US and Canada.



KC marking
Proof of conformity of the product with the safety regulations of Korea.



CCC marking
Proof of the China Compulsory Certificate.
Specific product groups are required to have CCC certification for export to China.

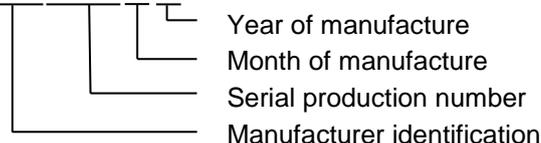


Bar underneath crossed-out waste bin
WEEE marking for electrical and electronic devices put on the market after 2005-08-13.
In some EU countries such as Germany, this symbol is not required for devices only used commercially (B2B devices), but WAGO uses it uniformly throughout Europe. This symbol means that the device must not be disposed of at public collection sites. Devices with this marking must not be thrown away with household trash.

Type plate information

Item no.: 258-5000

Serial number: GWA001230716



Year of manufacture

Month of manufacture

Serial production number

Manufacturer identification

5.3 Safety Information

The printer has been constructed according to the technological state of the art and in accordance with existing safety regulations. Nonetheless, the printer may present dangers to persons and property if used improperly or for a use other than the intended one, or if the safety information is ignored.

Skilled operation and careful maintenance ensure high performance and availability. Therefore, we recommend paying particular attention to this section.

This includes the user

- understanding the safety information and
- becoming familiar with the arrangement and function of the various operation options.

Any work on and with the printer may only be performed according to these instructions. Before commissioning, the user must ensure that the printer is in perfect condition every time. Operation must be halted immediately in the event of any change.

5.4 Special Safety Information

- The printer is designed for alternating current power supply networks of 100 V to 240 V.
- Only connect the printer using a plug with a PE terminal.
- Only use the printer with the power supply provided.
- Before commissioning, check the printer for damage that may have occurred during shipping. The printer must not be put into operation if there is mechanical damage.
- Only operate the printer in dry indoor rooms, and do not expose it to any moisture, such as water splash.
- Do not install the printer on or in the vicinity of easily flammable materials.
- The printer must be placed on a flat and stable surface.
- Do not operate the printer in hazardous environments.
- Warning: This is a class A product! This product may cause radio interference in residential areas. In such cases it is up to the user to take all appropriate measures to prevent/eliminate this interference.
- Improper use and failure to follow these application notes will render the warranty or guarantee null and void.

6. Product Information

6.1 Function

This device is a thermal transfer printer for industrial use for printing marking strips, markers and labels.

The print material is stored either within the printer on a holder or outside on an external unwinder, depending on the print material.

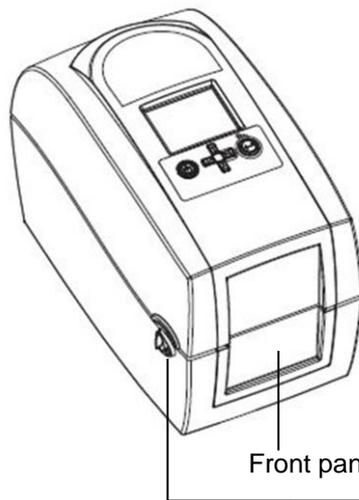
The printer feeds the print material in mechanically for printing.

During the printing process, heat is applied to the regions of the ink ribbon (print medium) that are to be transferred to the material that is to be printed on. At the heated points, the ink comes off the ink ribbon and is transferred to the print material.

6.2 Printer Description

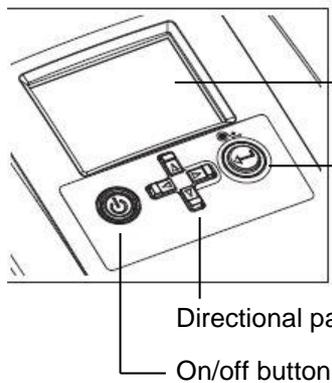
6.2.1 Printer Description – Housing/Control Panel/Interfaces

Left front view



Front panel

Detail view of control panel



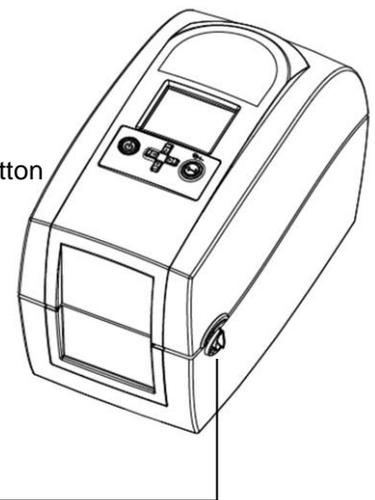
LCD

Enter button

Directional pad

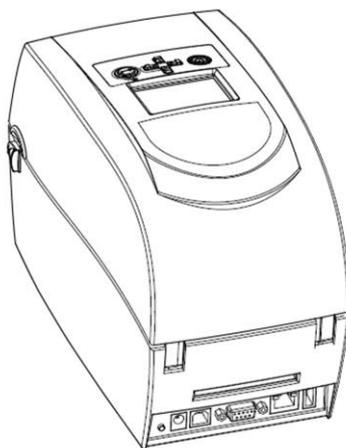
On/off button

Right front view



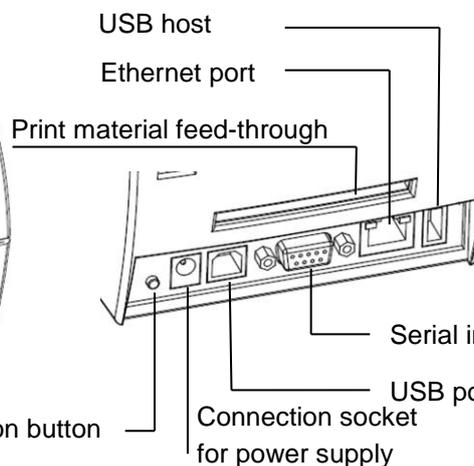
Operating lever to open the printer housing

Back view



Auto-calibration button

Detail Connections/interfaces



USB host

Ethernet port

Print material feed-through

Serial interface

USB port

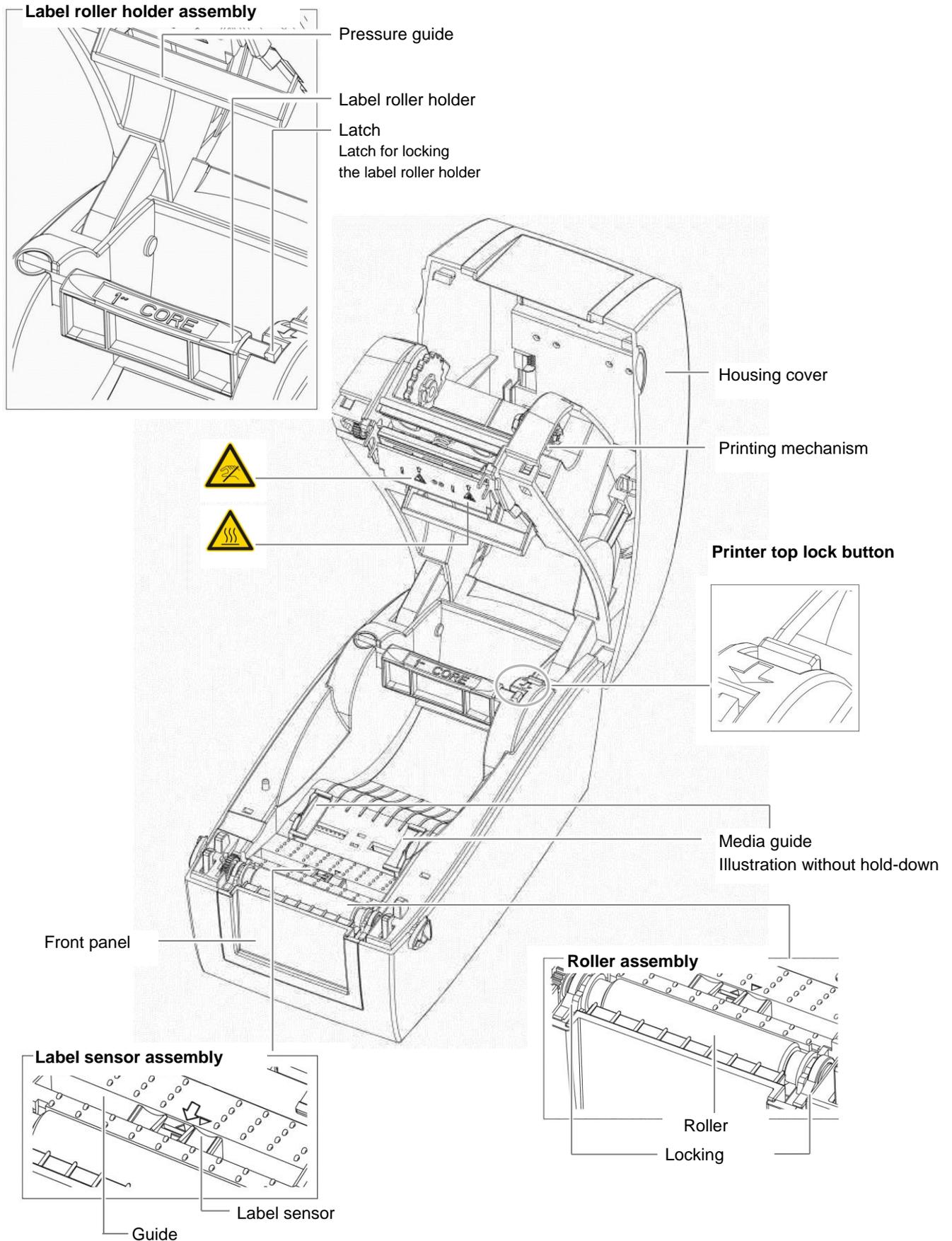
Connection socket for power supply

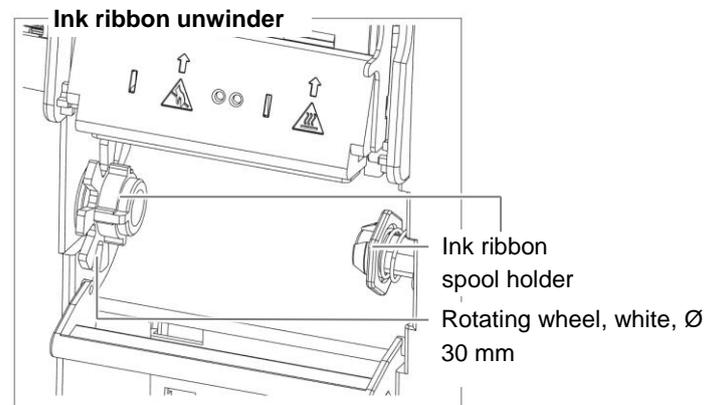
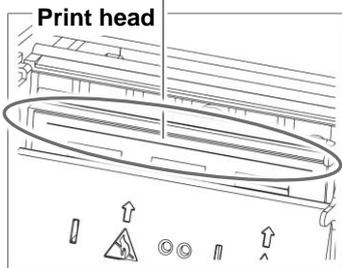
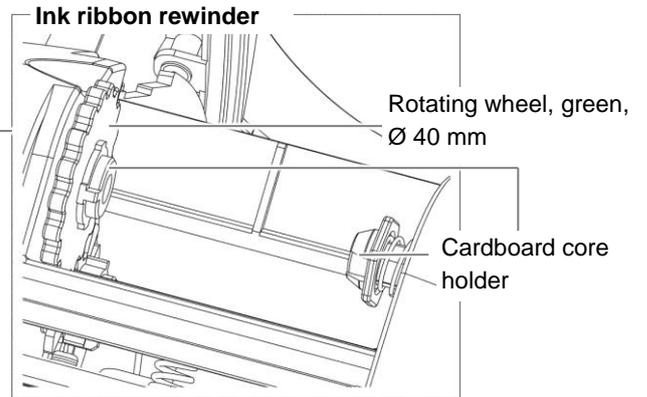
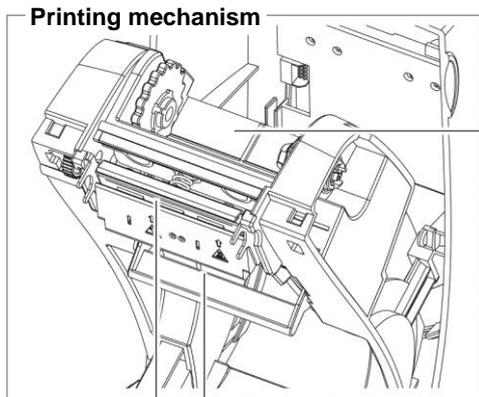
View from below



Cover for module connections

6.2.2 Printer Description – Part Names, Interior View





6.3 Technical Data

Dimensions	Height	175 mm
	Length	245 mm
Weight	without printing materials	2.0 kg
Power supply voltage	Input	100 VAC ... 240 VAC maximum 1.6 A 50 Hz ... 60 Hz
	Output	24 VDC ... 2.5 A
Power		
Interfaces		USB 2.0 Serial RS-232 (DB-9) ETHERNET USB host
Ambient temperature	during operation	+5 °C... 40 °C (+41 °F ... +104 °F)
	during transport/storage	-20 °C... 50 °C (-4 °F ... 122 °F)
Ambient humidity	during operation	30 % to 85 %, relative humidity, non-condensing
	during transport/storage	10 % to 90 %, relative humidity, non-condensing
Storage	Flash	8 MB 4 MB for applications
	SDRAM	16 MB
Printing mode		Thermal transfer, Thermodirect
Resolution		300 dpi x 300 dpi (12 pixels/mm x 12 pixels/mm)
Print speed (max.)		127 mm/s (5 in/s)
Print width		56.9 mm (2.24")
Print length		minimum 4 mm (0.16") / maximum 762 mm (30.0")
Sensor	Type	Transmissive sensor
	Position	adjustable
Print material	detection	Label gap, black mark, continuous material
	Width	minimum 15 mm (0.6") / maximum 60 mm (2.36")
	Thickness	minimum 0.06 mm (0.003") ... maximum 0.20 mm (0.008")
	Roll diameter	maximum 127 mm (5")
	Internal core diameter	25.4 mm (1"), 38.1 mm (1.5")
Ink ribbon	Quality	Resin
	Length	74 m
	Width	50 mm
	External core diameter	maximum 38 mm (1.5")
	Internal core diameter	12.7 mm
Printer language		EZPL, GEPL, GZPL, automatic setting
Software	Label software	
	Drivers	Windows 2000, XP, 7, 8, 10, Windows Server 2003 & 2008
	DLL	Windows 2000, XP and 7, 8, 10
Internal fonts	Bitmap fonts	6, 8, 10, 12, 14, 18, 24, 30, 16X26 and OCR A & B 90°, 180°, 270° rotatable individual characters rotatable by 90°, 180°, 270° horizontally and vertically scalable by a factor of eight
	Scalable fonts	90°, 180°, 270° rotatable
Loadable fonts	Bitmap fonts	90°, 180°, 270° rotatable individual characters rotatable by 90°, 180°, 270°
	Asian fonts	90°, 180°, 270° rotatable horizontally and vertically scalable by a factor of eight
	Scalable fonts	90°, 180°, 270° rotatable

Barcodes	1D barcode	Code 39, Code 93, EAN 8 /13 (add on 2 & 5), UPC A/E (add on 2 & 5), I 2 of 5 & I 2 of 5 with Shipping Bearer Bars, Codabar, Code 128 (subset A, B, C), EAN 128, RPS 128, UCC 128, UCC/EAN-128 K-Mart, Random Weight, Post NET, ITF 14, China Postal Code, HIBC, MSI, Plessey, Telepen, FIM and GS1 DataBar
	2D barcode	PDF417, Datamatrix code, MaxiCode, QR code, Micro PDF417, Micro QR code and Aztec code
Code pages		Code page 437, 850, 851, 852, 855, 857, 860, 861, 862, 863, 865, 866, 869, 737
		Windows 1250, 1251, 1252, 1253, 1254, 1255, 1257
		Unicode UTF8, Unicode UTF16
Graphic formats		BMP and PCX can be stored directly in the printer.
Control panel		Color TFT LCD
		Directional pad
		On/off button
Real-time clock		Standard
Accessories		External unwinder for printer materials on roll maximum roll diameter: 250 mm
		Cutting unit for automatic cutting of print materials with in-feed

6.4 Print Media

6.4.1 Basic Requirements of the Ink Ribbon

Only use ink ribbons from the WAGO product portfolio.

Only these products have been comprehensively tested and optimized for use with print materials, the smartPRINTER and the printing software.

Ink ribbon product information: 258-5005

Ink ribbon	Quality	Resin
	Length	74 m
	Width	50 mm
	External core diameter	33 mm
	Internal core diameter	12.7 mm

Ink ribbon product information: 258-5014



For printing on print materials with item numbers: 211-855 / 211-856 / 211-857

Ink ribbon	Quality	Resin
	Length	74 m
	Width	50 mm
	External core diameter	33 mm
	Internal core diameter	12.7 mm

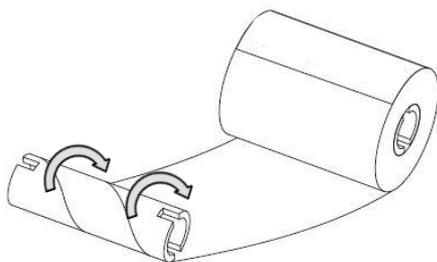
6.4.1 Ink Ribbon Storage

- Storage period: one year from invoice date
- Store the ink ribbon at a temperature between 10 ° and at most 35 ° Celsius.
- Store the ink ribbon at a humidity between 30 % and 80 %, non-condensing.
- Protect the ink ribbon against direct sunlight.
- Avoid pressure on the ink ribbon layers.

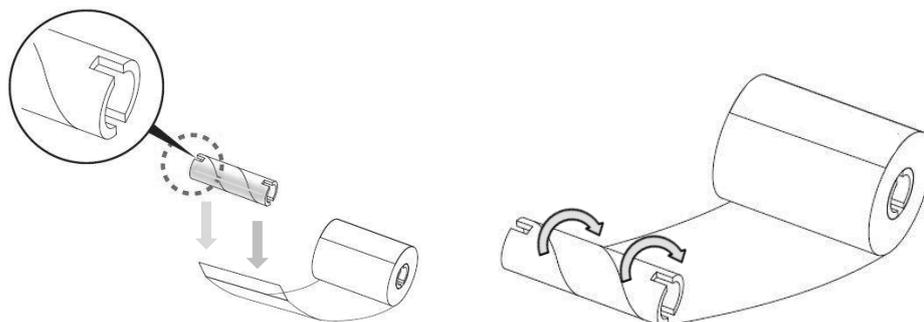
6.4.2 Preparing the Ink Ribbon

Wind the ink ribbon around the circumference of the cardboard core at least twice.

Turn the cardboard core inwards in the direction of the ink ribbon spool.



If you are using a cardboard core that is not attached to the ink ribbon with adhesive, place the self-adhesive surface of the cardboard core on the ink ribbon end and turn the cardboard core in the direction of the ink ribbon spool.



6.4.3 Inserting the Ink Ribbon

Insert the ink ribbon spool on the bottom of the print unit (Fig. EF1).

- Place the ink ribbon spool on the spring-loaded holder.
- Press the holder downwards with the ink ribbon spool, compressing the spring (Fig. EF2).
- Keep compressing the spring, and place the opposite side of the ink ribbon spool on the holder.
- The bars on the holder should grip the notches in the cardboard core of the ink ribbon spool.
- The ink ribbon spool is now correctly inserted.

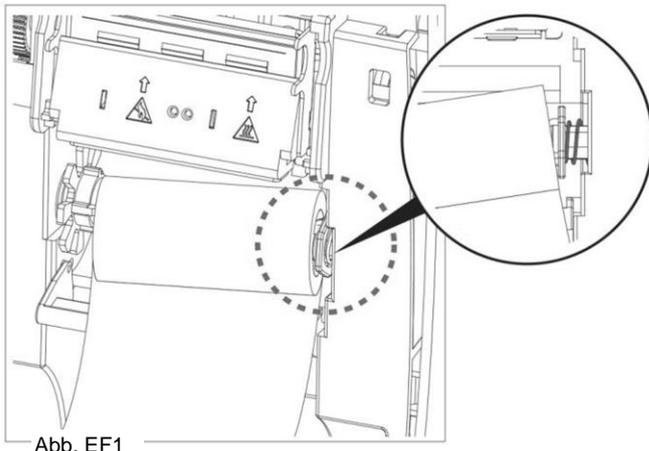


Abb. EF1

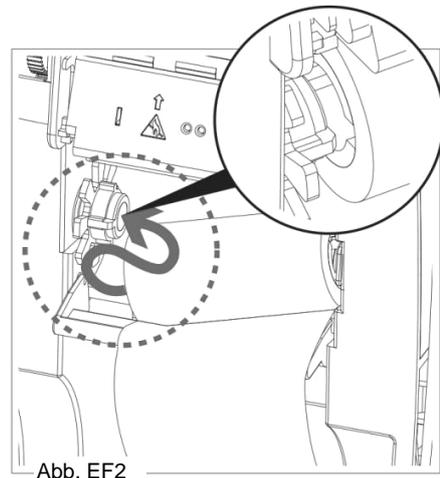


Abb. EF2

Insert the cardboard core for rewinding the ink ribbon on the top of the print unit (Fig. EF3).

- Guide the cardboard core that has been turned in around the “head” of the print unit (Fig. EF4).
- Place the cardboard core on the spring-loaded holder.
- Press the holder downwards with the cardboard core, compressing the spring
- Keep the spring compressed. Place the opposite end of the cardboard core on the holder (Fig. EF5).
- The bars on the holder should grip the notches in the cardboard core.
- The paper core for rewinding the ink ribbon is now correctly inserted.
- Turn the green rotating wheel in the direction of the arrow until the black ink ribbon is wound one full turn onto the cardboard core.

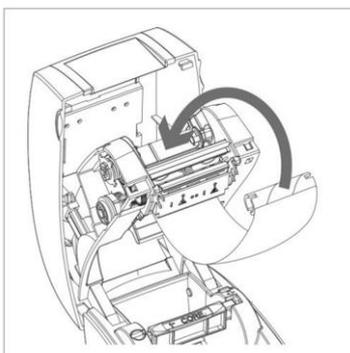


Abb. EF3

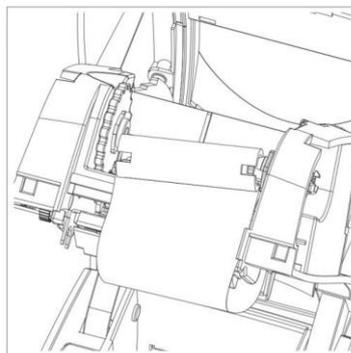


Abb. EF4

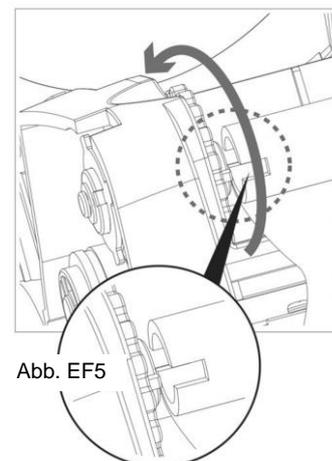


Abb. EF5

6.5 Print Materials

The requirements placed on the print materials necessitate proper storage. Deficiencies in storage affect the product properties and print quality and lead to faster wear of the print head. Following the general storage instructions is the basis for optimal print quality.



Read the handling instructions for the selected print material.

They contain product-specific software and hardware settings.

You can find the handling instructions at: www.wago.com/smartprinter

Only use print materials from the WAGO product portfolio.

Only these products have been comprehensively tested and optimized for use with the **smart**PRINTER and the printing software.

6.5.1 Label Roll Storage

- Store the label rolls lying flat one on top of the other.
- Store the label rolls in their original packaging until processing.
- Avoid pressure on the label rolls that could lead to deformation of the rolls.
- Protect the label rolls against sunlight and heat exposure. Do not store the label material in the immediate vicinity of heat sources like heaters.
- Store the label rolls at a temperature between 10 °C and at most 18 °C and relevant humidity $\geq 50\%$, non-condensing.
These environmental conditions prevent the adhesive from leaking or hardening prematurely.
- Store label material that has not been processed completely in polybags until further processing. This prevents excessive moisture absorption of the print material.

6.5.2 Storage of Markers/WMB Inline

- Store the markers in their original packaging until processing.
- Protect the markers against sunlight and heat exposure. Do not store the markers in the immediate vicinity of heat sources like heaters.

6.5.3 Storage of Marking Strips

- Store the marking strips in their original packaging until processing.
- Protect the marking strips against sunlight and heat exposure. Do not store the marking strips in the immediate vicinity of heat sources like heaters.
- Store label material that has not been processed completely in polybags until further processing. This prevents excessive moisture absorption of the print material.

6.5.4 Processing Label Rolls

Note a few fundamental issues relating to label rolls during processing:

- Lift the label rolls evenly and across the entire surface in order to prevent telescoping. In telescoping, the inner core of the label roll pushes out and pulls the print material with it. Pressing the core back in can detach labels from the substrate material and cause them to adhere to other layers or change the pre-tension of the label rolls. This leads to faults or errors in the printing process.
- Avoid pulling the label rolls subsequently in order to maintain the specified pre-tension of the rolls. Pulling negatively impacts the running and unwinding behavior of the label roll and can lead to faults or errors.
- Remove the outer layer of the label roll when accessing broken print material or material without outer packaging. Removing the outer layer prevents contamination from being deposited on the print head and the roller.

6.5.5 Processing Markers/WMB Inline

Note a few fundamental issues relating to markers during processing:

- Avoid pulling the markers on the substrate roll subsequently in order to maintain the specified pre-tension of the rolls. Pulling negatively impacts the running and unwinding behavior of the markers and can lead to faults or errors.
- Remove the outer layer of the markers when accessing broken print material or material without outer packaging. Removing the outer layer prevents contamination from being deposited on the print head and the roller.

6.5.6 Processing Marking Strips

Note a few fundamental issues relating to marking strips during processing:

- Avoid pulling the marking strips on the substrate roll subsequently in order to maintain the specified pre-tension of the rolls. Pulling negatively impacts the running and unwinding behavior of the marking strips and can lead to faults or errors.
- Remove the outer layer of the marking strips when accessing broken print material or print material without outer packaging. Removing the outer layer prevents contamination from being deposited on the print head and the roller.

smartPRINTER Operating Instructions

6.5.7 Inserting Label Rolls

The following information will help you use your **smartPRINTER** safely.

The details of the graphical illustrations may differ from those of the current model.

Open the **smartPRINTER**. Tilt the top of the printer (print mechanism and housing cover) up until it locks firmly in place.

Fig. EE1

- Press the latch in the direction of the black arrow.
- Release the label roll holder from the recess.

Fig. EE2

- Push the label roll onto the label roll holder up to the plate (not pictured).

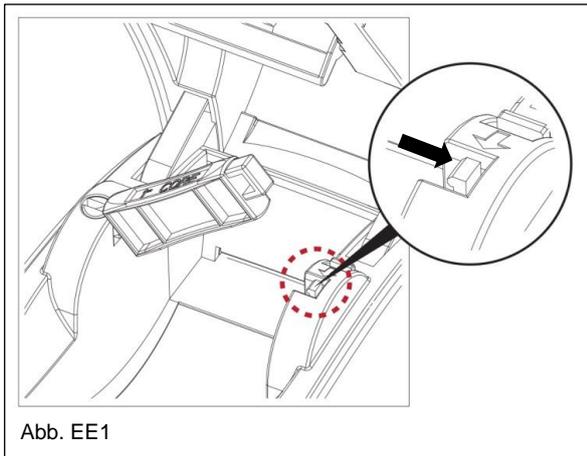


Abb. EE1

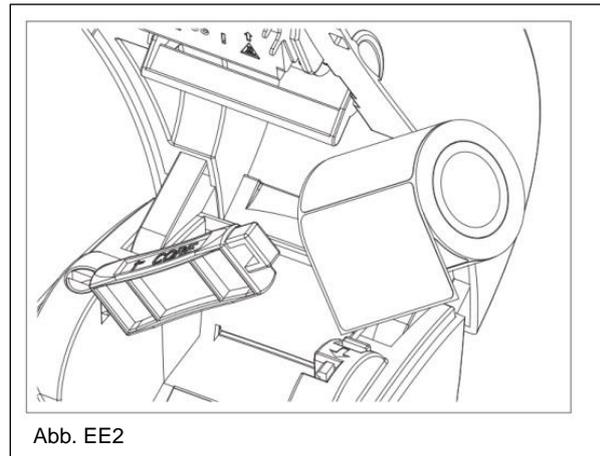


Abb. EE2

Fig. EE3

- Center the label roll on the label roll holder.
- Push the second plate (not in the figure) onto the label roll holder. The print medium is secured.

Fig. EE4

- Press the label roll holder into the recess until the latch catches.

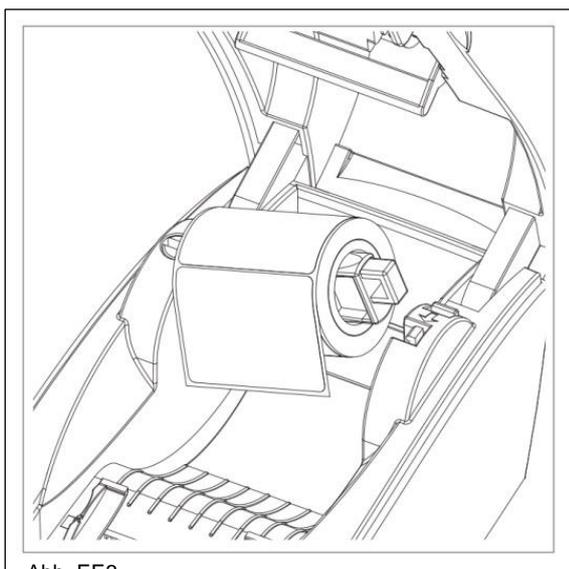


Abb. EE3

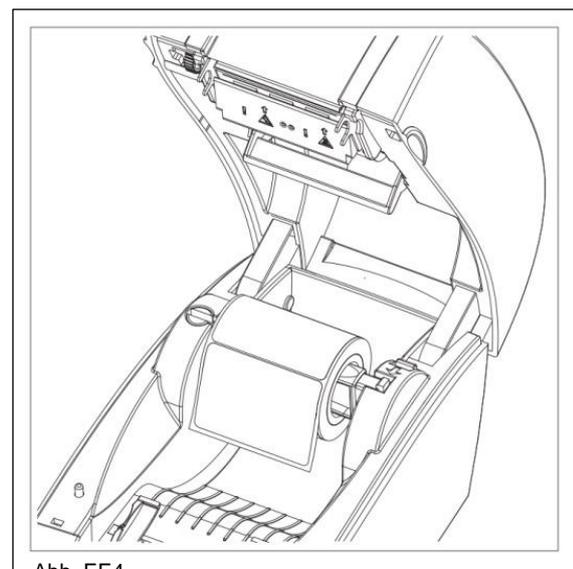
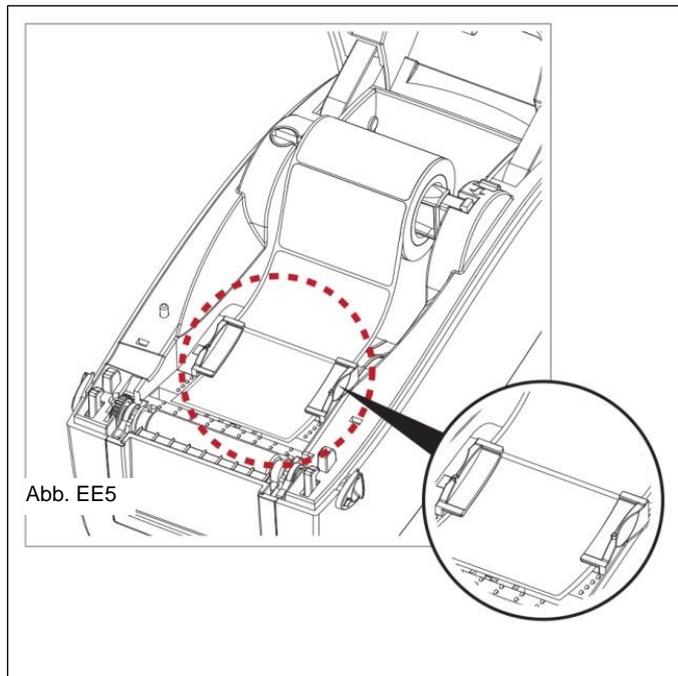


Abb. EE4

smartPRINTER Operating Instructions

Fig. EE5

- Adjust the media guide to the width of the label material.
The print material bulges if the media guide is set too narrow.
The print material escapes from the media guide if it is set too wide.
An incorrectly adjusted media guide leads to errors in the transport of the print medium and the printed image.
- Feed the label material through under the hold-down device (not in the figure) and the media guide.
- Pull the label material the length of one label out of the printer in the direction of the print roller.



Check whether the label roll can turn freely on the holder in the printer.
The label roll must not rest on the printer housing. The side of the print media that is to be printed on must face upwards.

Close the **smart**PRINTER. Hold the lock button down. Guide the printer top onto the printer bottom. Press the top until the housing parts lock audibly, which is signaled by a click.

smartPRINTER Operating Instructions

6.5.8 Using Markers/WMB Inline

The following information will help you use your **smartPRINTER** safely.

The details of the graphical illustrations may differ from those of the current model.

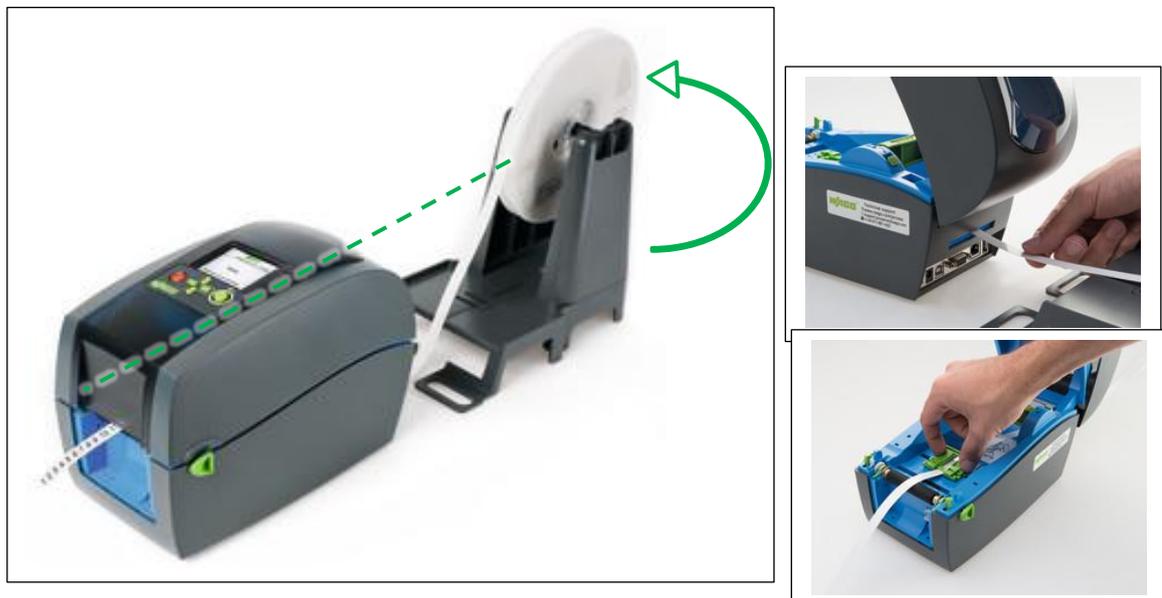
Insert markers on the roll in the external unwinder.

- 
Important: Unrolling direction to the left!
 The markers are fed into the printer in a counter-clockwise direction.

Position external unwinder with the print material behind the printer.

- 
Important: The external unwinder with the print material on the roll is positioned in such a way that the print material that is unwinding and material that is fed through the printer form an imaginary line!

If the printer and print material in the external unwinder are not aligned with each other, this leads to errors in the transport of the print material and the printed image.



- Open the **smartPRINTER**. Tilt the top of the printer (print mechanism and housing cover) up until it locks firmly in place.
- Push the print material into the printer through the feed-through hole on the back of the printer.
- Adjust the media guide to the width of the markers.
 - The print material bulges if the media guide is set too narrow.
 - The print material escapes from the media guide if it is set too wide.
 - An incorrectly adjusted media guide leads to errors in the transport of the print medium and the printed image.
- Feed the markers through under the hold-down device and the media guide.
- Align the markers exactly to the roller guide groove.
- Pull the markers out of the printer in the direction of the print roller.

Close the **smartPRINTER**.

6.5.9 Calibrate print materials

GoDoctor Software

You can use the GoDoctor software to start, track and evaluate the calibration process (measure print material) on your monitor.

Check the result with the information in our handling instructions for your print material and thus avoid misprints due to incorrect calibration.

Always use the most up-to-date version of the software. Check your existing installation to make sure that it is up to date, or download the newest version:

Link: www.wago.com/smartprinter

The program file GoDoctor.exe can be found in the *smart*SCRIPT installation directory on your PC / laptop.

C:/Programme(86)/Wago/smartScript/...

Auto-calibration button

You can start the calibration process (measure print material) on your **smart**PRINTER with the auto calibration button.

Press and hold the Auto-calibration button for 1 second.

The printer automatically detects the print material.

Note that calibration via the Auto-calibration button does not confirm whether the print material has been calibrated correctly.

To check the calibration, run a test print.

6.5.10 Selection matrix – Find the right Information on Handling Print Material

The Information on Handling Print Material give you the best product-specific soft- and hardware settings for the printing material. Please see the tables below for information on how to handle your product.

Note: Individual information on handling print material are representative of other print materials with identical handling. The graphics in these notes only represent the print material to be named.

	210-804 Handling information	210-805 Handling information	210-811 Handling information	210-813 Handling information	210-831 Handling information	210-852 Handling information	211-502 Handling information	211-821 Handling information	211-835 Handling information	211-836 Handling information	211-856 Handling information	211-861 Handling information	2009-110 Handling information	2009-113 Handling information	2009-145 Handling information	2009-515 Handling information	2009-615 Handling information
210-702													•				
210-801	•																
210-802	•																
210-803	•																
210-804	•																
210-805		•															
210-805/000-002		•															
210-806		•															
210-806/000-002		•															
210-807		•															
210-807/000-002		•															
210-808		•															
210-810		•															
210-811			•														
210-811/000-002			•														
210-812	•																
210-813				•													
210-831					•												
210-832					•												
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210-834					•												
210-847						•											
210-848						•											
210-850						•											
210-852						•											
210-854						•											
210-855						•											
210-856						•											
210-858						•											
210-860						•											

	210-804 Handling information	210-805 Handling information	210-811 Handling information	210-813 Handling information	210-831 Handling information	210-852 Handling information	211-502 Handling information	211-821 Handling information	211-835 Handling information	211-836 Handling information	211-856 Handling information	211-861 Handling information	2009-110 Handling information	2009-113 Handling information	2009-145 Handling information	2009-515 Handling information	2009-615 Handling information
210-862						•											
210-870													•				
210-871													•				
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210-873													•				
210-874													•				
210-875													•				
210-876													•				
210-876/000-002													•				
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211-500							•										
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211-836										•							
211-836/000-002										•							
211-855											•						
211-856											•						
211-857											•						
211-861												•					
211-862												•					
211-863												•					

	210-804 Handling information	210-805 Handling information	210-811 Handling information	210-813 Handling information	210-831 Handling information	210-852 Handling information	211-502 Handling information	211-821 Handling information	211-835 Handling information	211-836 Handling information	211-856 Handling information	211-861 Handling information	2009-110 Handling information	2009-113 Handling information	2009-145 Handling information	2009-515 Handling information	2009-615 Handling information
709-178																	
2009-113														•			
2009-114														•			
2009-115														•			
2009-145															•		
2009-515																•	
2009-615																	•

You can find the handling information online at: www.wago.com/smartprinter

7 Stages of Service Life

7.1 Transport and Storage

If the **smart**PRINTER is not commissioned after it is received and visually inspected, repackage it in the original packaging.

Protect the printer against impacts, contamination and moisture during storage.
Before commissioning, give the device time to adapt to the temperature and humidity conditions.

Operating temperature range: -5 °C... +40 °C
Humidity range during operation: 10 % ... 90 %, non-condensing.

7.2 Mounting



Warning against dangerous electrical voltage:
Disconnect the printer from the power supply before starting any installation work!

Set the printer up near an outlet so the plug can be pulled out easily at any time.

The printer is supported by four rubber feet. When setting it up, ensure that the device does not wobble. Check whether all four rubber feet are inserted into the housing.
Installation holes on the bottom of the printer make it possible to secure the setup position.

Place the printer on a flat and stable surface that protrudes out past its base on all sides.

The printer will not function smoothly if it is tilted or on an angle.

Make it possible to work safely with the device.
Set the printer up in a freely accessible location.

If you set the printer up against a wall, leave clearance of at least 10 cm between the back of the printer and the wall.

Keep the printer away from direct sunlight, exposure to bright light and sources of heat.

Avoid locations where the printer is exposed to significant temperature and humidity fluctuations.

7.2.1 The Right Roller for the Print Medium

Table 5006: List of the Print Media for Roller 258-5006		
	Product Picture for Roller 258-5006	Description
		Color of the rubber coating: black Surface of the rubber coating: without grooves
Series	Item Number	Print Medium Designation
210	210-702	Continuous marking strips
	210-801 ... -812	Label
	210-805/000-002 ... -811/000-002	Label
	210-831 ... -834	Continuous marking strips
	210-847 ... -863	Push-button markers
	210-870 ... -877	Continuous marking strips
211	211-500 ... -506	Shrink tube
	211-500/000-002 ... -506/000-002	Shrink tube
	211-811	Cable markers for nozzles
	211-821	Cable markers for nozzles
	211-835, -836	Cable markers
	211-855, -856, -857	Conductor markers
	211-861, -862, -863	Cable markers
709	709-178	Marking strips
2009	2009-110	Marking strips

Table 5007: List of the Print Media for Roller 258-5007		
	Product Picture for Roller 258-5007	Description
		Color of the rubber coating: dark green Surface of the rubber coating: with grooves in the middle
Series	Item Number	Print Medium Designation
2009	2009-113	WMB Inline markers
	2009-114	WMB Inline markers
	2009-115	WMB Inline markers

Table 5008: List of the Print Media for Roller 258-5008		
	Product Picture for Roller 258-5008	Description
		Color of the rubber coating: blue Surface of the rubber coating: with grooves in the middle
Series	Item Number	Print Medium Designation
2009	2009-145	Mini-WSB Inline

Table 5009: List of the Print Media for Roller 258-5009		
	Product Picture for Roller 258-5009	Description
		Color of the rubber coating: white Surface of the rubber coating: with grooves in the middle
Series	Item Number	Print Medium Designation
2009	2009-515	WMB Inline for Phoenix terminal blocks

Table 5010: List of the Print Media for Roller 258-5010		
	Product Picture for Roller 258-5010	Description
		Color of the rubber coating: red Surface of the rubber coating: with grooves in the middle
Series	Item Number	Print Medium Designation
2009	2009-615	WMB Inline for Weidmüller terminal blocks

smartPRINTER Operating Instructions

7.2.2 Installing and Removing the Roller

Contamination of or surface damage to the roller impairs the transport of the print material and has a negative effect on the printing results. Dents, scoring or other faults in the rubberized surface necessitate replacement of the roller. The roller also must be removed for cleaning.

Removing the roller:

Open the **smartPRINTER**. Tilt the top of the printer (print mechanism and housing cover) up until it locks firmly in place.

Remove any print material from the work area.

Fig. AD1

- Insert a narrow screwdriver into the gap between the blue housing and the spindle surface of the front panel (see gray arrow in the figure).
- Press the screwdriver downwards. Use the leverage to loosen and remove the front panel.

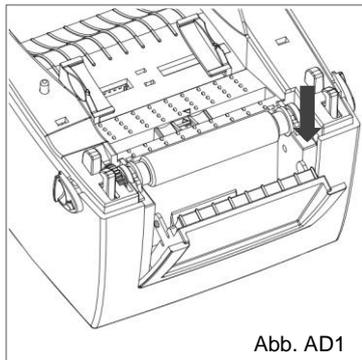
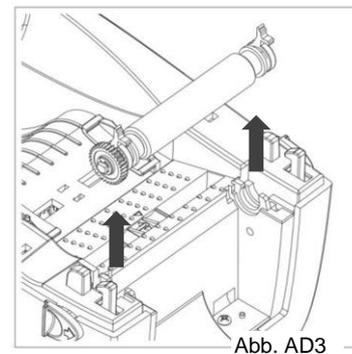
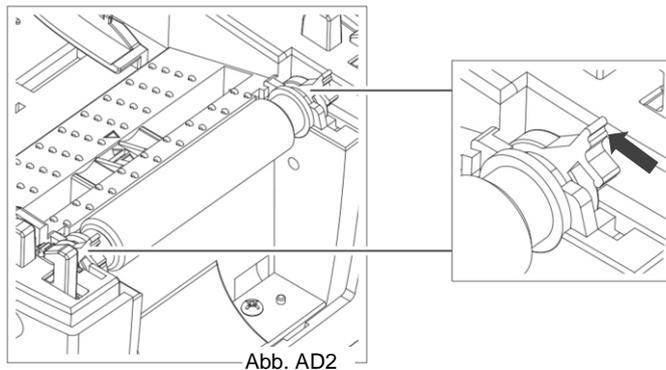


Fig. AD2 and Fig. AD3

- Press the locking levers on the ends of the roller upwards to a vertical position.
- Remove the roller upwards.

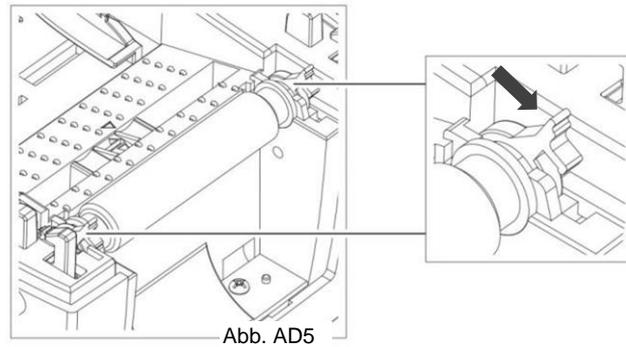
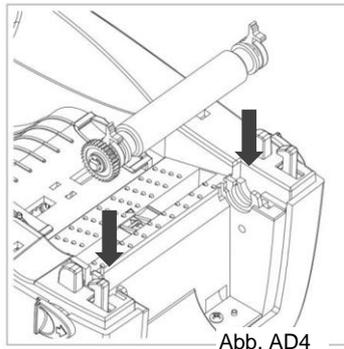


smartPRINTER Operating Instructions

Installing the roller:

Fig. AD4 and Fig. AD5

- Pay attention to the gearwheel during installation.
- Insert the new or cleaned print roller in the correct orientation.
- Press the locking levers on the ends of the roller downwards to the stop.



Not pictured.

- Insert the front panel.

Close the **smartPRINTER**. Hold the lock button down. Guide the printer top onto the printer bottom. Press the top until the housing parts lock audibly, which is signaled by a click.

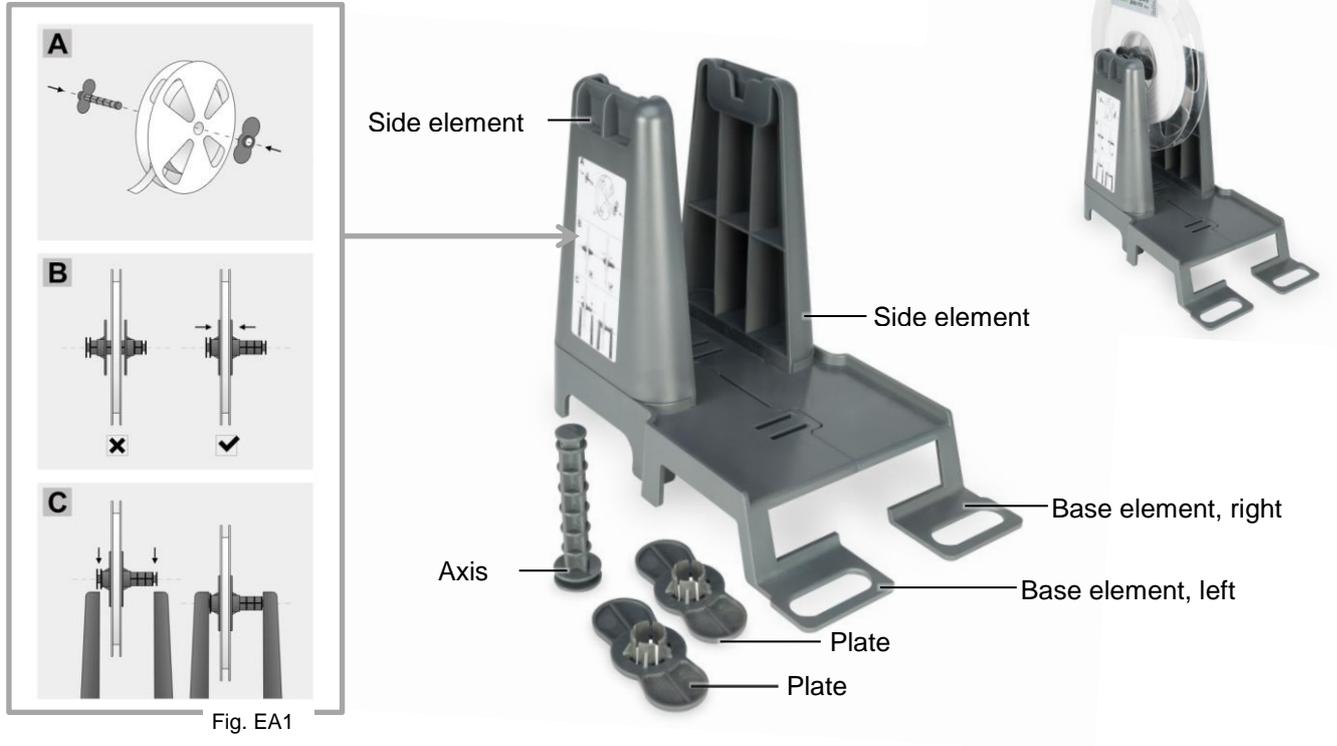
smartPRINTER Operating Instructions

7.2.3 External Unwinder

The external unwinder is used for suspension and uniform supply of continuous printing materials from the roll to the **smartPRINTER**.

The unwinder is enclosed with your printer and is to be assembled as described in these instructions. Application note Fig. EA1 contains instructions for installing a print material roll.

Description



Assembly

Fig. EA2

- Slide the T-slot on the side element into the T-guide of the base plate to the stop.

Fig. EA3

- Connect the left and right sub-assemblies, sliding the guides in the base elements together to the stop.



smartPRINTER Operating Instructions

Fig. EA4

- Pre-assembled external unwinder.

Fig. EA5

- Use the clamping screw to screw the left and right sub-assemblies together. The external unwinder is ready for use with the **smartPRINTER**.

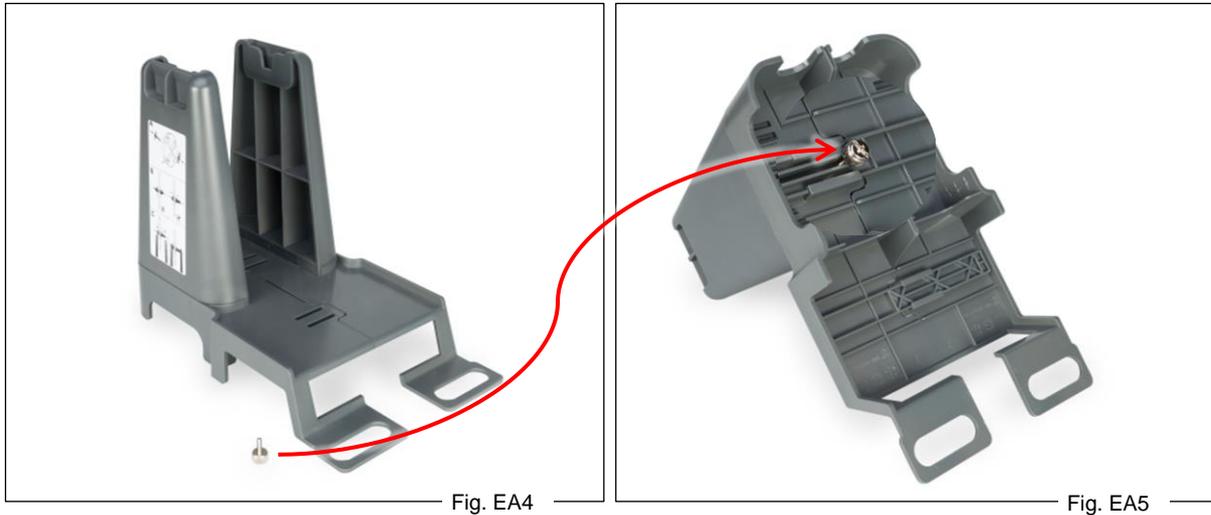


Fig. EA6

- The external unwinder is set up behind the **smartPRINTER**.
- The external unwinder is set up on the same level as the **smartPRINTER**.



Important: The external unwinder with the print material on the roll is positioned to allow the print material and material that runs through the printer in an imaginary line.



smartPRINTER Operating Instructions

7.2.4 Cutter

The cutter was developed to cut WAGO print material.

The cutter is a **smartPRINTER** accessory and is for use with this material only. The following information will support you in operating the cutter. Only use print material approved to cut by WAGO. The cutter does not contain any parts that need to be serviced by the user. Do not open the enclosure. Do not insert objects through the labels bay in the cutter unit.



Warning against high voltage

Disconnect the printer from the power supply before starting any installation work.



The increasing number of built-in products on a DIN rail leads to tolerance-related deviations in the overall length.

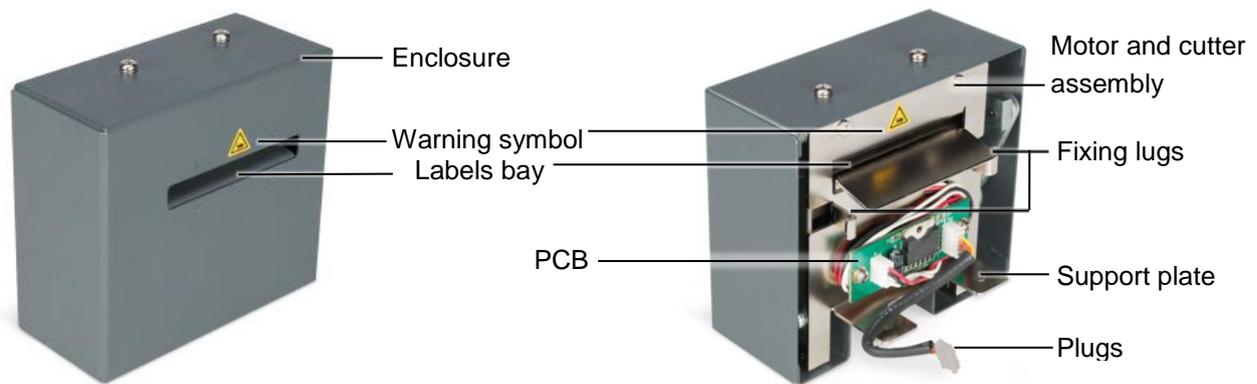
Cuttings should not exceed a length of 39,37" (1000 mm).



Cuttings should not below a length of 1,18" (30 mm).

If printer/accessories and operating software are operated in separate rooms, check the printer for errors after each print job.

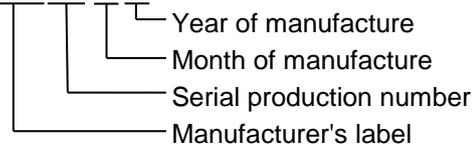
Description



Type plate information

Item No. : 258-5030

Serial number: GWA0010716



Manufacturer and support address

Technical data

Dimensions	Altitude	4,20"
	Length	5,15"
	Width	2,40"
Weight		1,060 kg
Nominal Voltage		24 DCV
Ambient operating temperature	During operation	+32°F ... +104°F
	During transport/storage	+14°F ... +140°F
Ambient humidity	During operation	20 to 85 %, relative humidity, non-condensing
	During transport/storage	10 to 90 %, relative humidity, non-condensing
Print material	Max. width	1,81"
	Max. thickness	250 µm

Hard- und Software requirements

smartPRINTER requirements		
	Printer type	smartPRINTER
	Printer driver	Version 7.4.2
	From month/year of manufacture	0814 – August 2014
	Firmware version	1.UW7i

Software requirements		
	smartSCRIPT	Version 3.88.9.0 or higher
	WAGO Printer-Settings	Version 2.4.0.0 or higher

Always use the most up-to-date version of the software. Check your existing installation to make sure that it is up to date, or download the newest version:

Link: www.wago.com/smartprinter

Important:

Deinstall existing **smartSCRIPT** software before carrying out a new installation.

Connection to the printer

Open the **smartPRINTER**. Fold out the of the printer (print mechanism and enclosure cover) until it locks firmly in place.

Remove the front panel of the printer.

- Insert a small screwdriver into the gap between the blue enclosure and the spindle surface of the front panel.
- Press the screwdriver downwards and using a light lever movement, loosen and remove the front panel.

Fig. C1

- Pay attention to the correct orientation of the connector.
- Plug the cutter connector into the board connector on the printer.

Fig. C2

- Lift the cutter unit and insert the fixing lugs into the guiding grooves on the printer.
- Lower the cutter until it rests on the support plate.

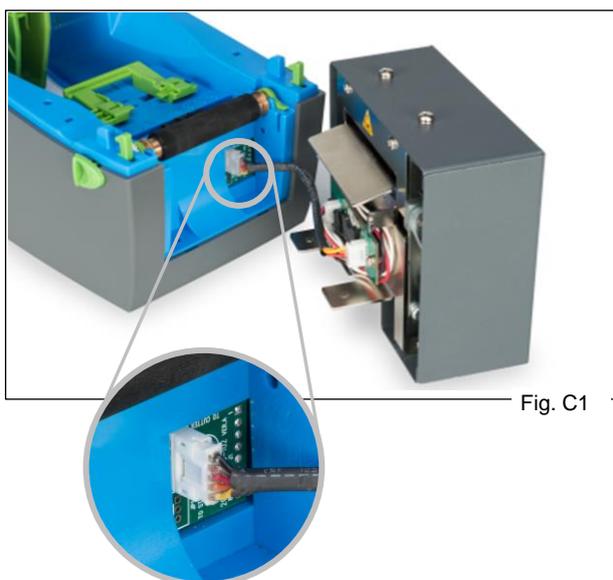


Fig. C1

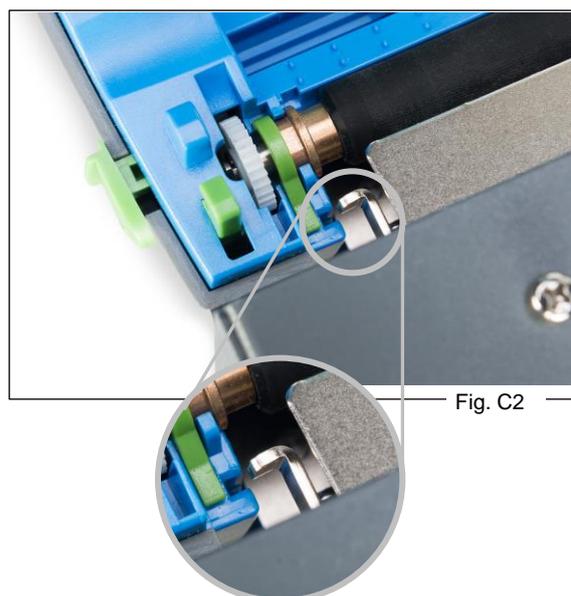


Fig. C2

smartPRINTER Operating Instructions

Fig. C3

Printer and installed cutter. Guide the print material through the cutter.
Close the printer.



Fig. C3

WAGO Printer Settings - Activate the cutter

The use of the cutter is transferred to the **smartPRINTER** via the Software WAGO Printer-Settings.

Start the WAGO Printer Settings:

- Select directory **1**.
- Select print material **2**.
- Select gear icon **3** for print material.
- Activate [Cutter active] in the selection window.



Fig.: Cutter active – Selected

Note:

The **[Cutter active]** and **[Overrun (mm)]** options are only available to you for print materials that are approved for cutting with the cutter.

[Cutter active] = Selected

The value entered in **[Overrun (mm)]** defines the feed path of the print material to the knife position of the cutter.

Notice: Increase or decrease the overrun value stepwise in one tenth (1/10) increments. The overrun value may not exceed 38 mm!

Changing the values **[Save]** then **[Close]**.

Now perform several test printouts.

The printer needs the test printouts to adjust and implement the correction values.

Approved print material to be cut

Series	Item Number
210	210-702
	210-801 ... -804
	210-812 ... -813
	210-831 ... -834
	210-870 ... -877
	210-876/000-002
211	211-835 ... -836
	211-836/000-002
	211-855 ... -857
	211-861 ... -863

Series	Item Number
709	709-178
757	757-901/000-050
2009	2009-110

7.3 Commissioning and Installation

Ensure that the printer is closed.

The mains power supply used must match the operating voltage indicated on the type plate of the printer.

If printer and operating software are operated in separate rooms, check the printer for errors after each print job.

If the printer is not used for a long time:

- Disconnect the printer from the power supply.
- Unlock the printer top.

7.3.1 Stand-alone Operation of the Printer

Printing from internally stored files without connection to desktop/laptop

7.3.2 Printer Driver Installation



Note: The following installation steps require administrative rights and entering addresses on your network. Contact your IT department for assistance.

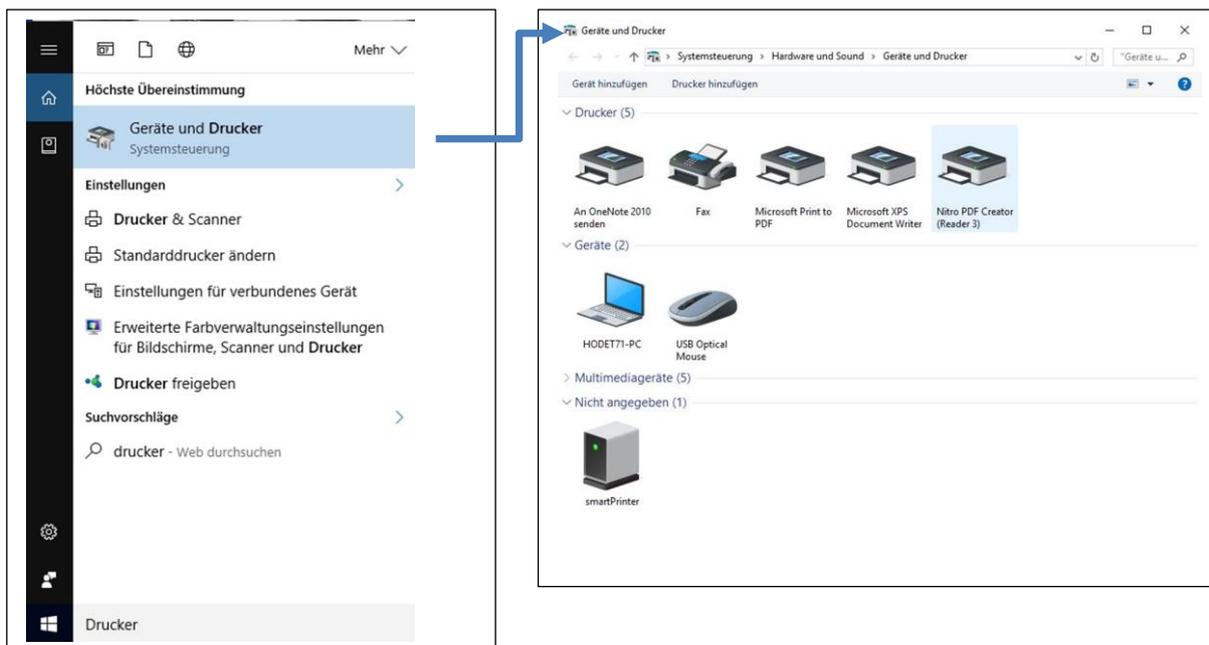
Before beginning the installation, you must download smartPRINTER_Installation_Package.exe from www.wago.com/smartprinter and install it.

7.3.3 Single-user Installation via USB

Connect the **smartPRINTER** to your computer with the USB cable and to the mains power using the power cable. Switch the **smartPRINTER** on. Press the ON/OFF button to switch the printer on.

Launch the installation software on your computer.

Select "Install driver" from the installation menu.

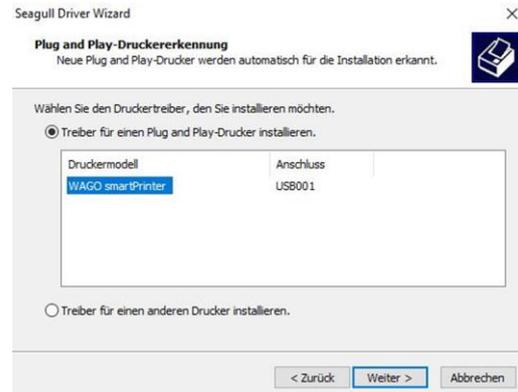


smartPRINTER Operating Instructions

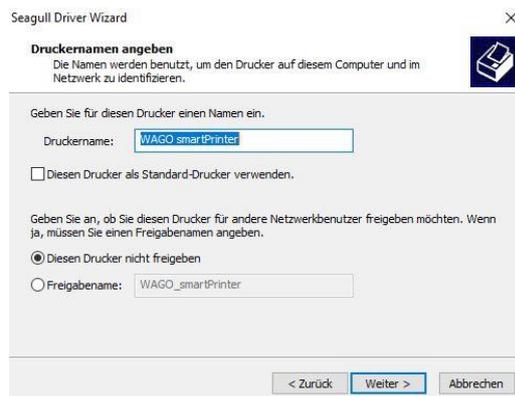
Follow the instructions given in the driver installation program (Seagull Driver Wizard):



Step 1: Select **[Install printer driver]** and click **[Next >]**.



Step 2: Select printer model WAGO-**smartPRINTER** on the USB port and click **[Next >]**
(Check the connection to the printer if the device is not displayed under "Connection." Restart the driver installation program.)



Step 3: Apply the printer name and click **[Next >]**.



Step 4: A summary of the printer settings appears. Click **[Finish]** to complete the installation of the printer.



Note: Users with Windows 7, 8 or 10 as their operating system should click **[Install]** to confirm the security prompt.



Step 5: Click **[Close]**. The driver is installed.

smartPRINTER Operating Instructions

7.3.4 Network Installation without Use of DHCP Server

Connect the **smartPRINTER** to your server or router with the LAN cable and to the mains power using the power cable.

Automatic address assignment on the network via DHCP is switched on (active) in the printer default settings.

Switch the **smartPRINTER** on. Press the ON/OFF button to switch the printer on. You can configure the necessary settings to deactivate DHCP in the **[Printer Settings]** menu.

Follow the instructions on the display.

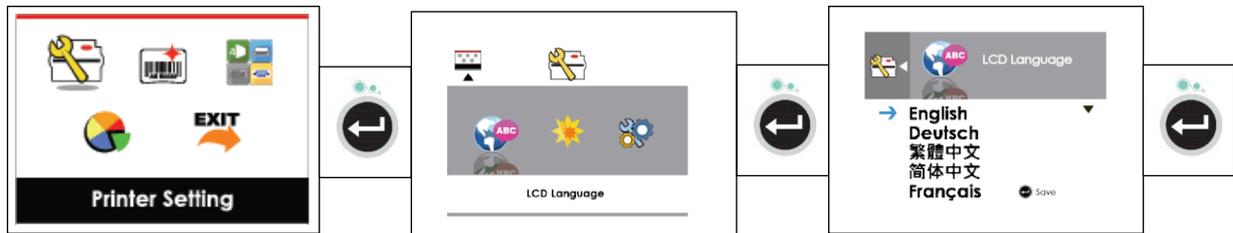
Note:

- ! You can change the language via menu items on the display.
The default menu language is English.

Hold the right-hand button of the directional pad down until the graphics for the menu appear on the display.

Changing the menu language

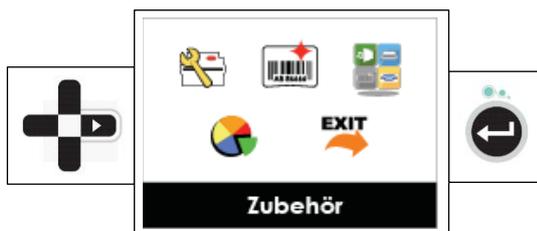
Select **[Printer Setting]** and press the Enter button. Select the **[LCD Language]** menu item and confirm the selection by pressing the Enter button. Select German as your desired menu language. Confirm the selection by pressing the Enter button.



Entering the addresses

The required settings are configured on the printer display. Switch the printer on and follow the instructions on the display.

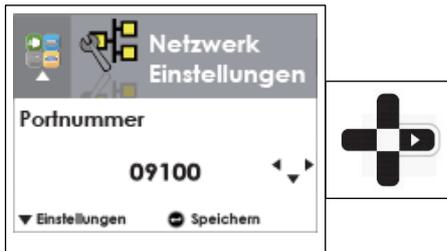
Select the **[Accessories]** menu item with the directional pad and confirm the selection by pressing the Enter button.



Select the sub-menu item **[Network Settings]** and confirm the selection by pressing the Enter button.



[Port Number] 09100 must be entered here. Press the right-hand button on the directional pad and navigate to **[DHCP]**.



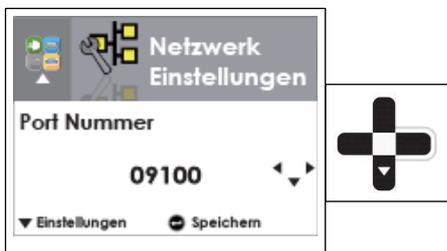
Changing the values entered

The procedure for the following menu items is identical when changing values.

Press the bottom button of the directional pad, **[Settings]**. A red line appears under the first digit. You can change the value of the underlined digit by pressing the top or bottom button of the directional pad.

Pressing the left or right button of the directional pad moves to the next digit.

Pressing the Enter button saves the entry and exits the input area.



[DHCP] The default setting is “DHCP active.” Press the bottom button of the directional pad. **[DHCP]** now appears on the display in a black bar as well as **[activate]**. Press the bottom button of the directional pad. **[deactivate]** now appears on the display. Press the Enter button and save the setting. Press the right-hand button on the directional pad and navigate to **[Standard Gateway]**.



Press the right-hand button on the directional pad and navigate to **[Standard Gateway]**.

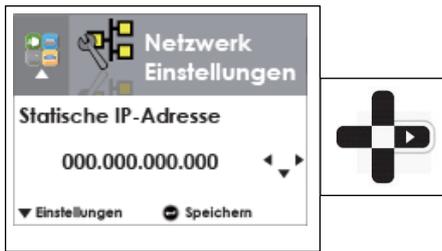
[Standard Gateway]: Enter the address of the standard gateway.

Press the right-hand button on the directional pad and navigate to **[Static IP Address]**.

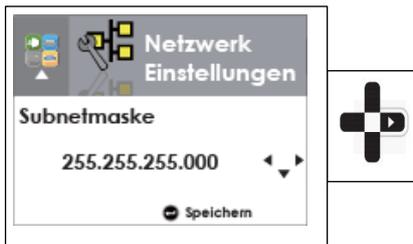


smartPRINTER Operating Instructions

[Static IP Address]: Enter the static IP address of the device.
Press the right-hand button on the directional pad and navigate to **[Subnet Mask]**.



[Subnet Mask]: Enter the numerical code of the subnet mask in decimal form.
Press the Enter button. All entries are saved.



This concludes the settings necessary to set up the printer on a network without using a DHCP server.

Switch the **smart**PRINTER on.
Launch the installation software.
Select "Install driver" from the installation menu.

Follow the steps in the driver installation program (Driver Wizard):

smartPRINTER Operating Instructions

7.3.5 Network Installation with Use of DHCP Server

Connect the **smartPRINTER** to your server or router with the LAN cable and to the mains power using the power cable.

Automatic address assignment on the network via DHCP is switched on (active) in the printer default settings.

Switch the **smartPRINTER** on. Press the ON/OFF button to switch the printer on.

You can query the addresses assigned to the printer in the **[Printer Settings]** menu.



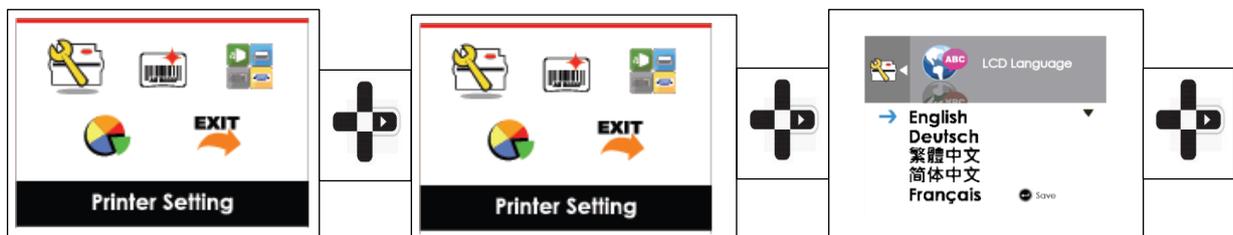
Note:

You can change the language via menu items on the display.
The default menu language is English.

Hold the right-hand button of the directional pad down until the graphics for the menu appear on the display.

Changing the menu language

Select **[Printer Setting]** and press the Enter button. Select the **[LCD Language]** menu item and confirm by pressing the Enter button. Select German as your desired menu language. Confirm the selection by pressing the Enter button.



Querying the Addresses

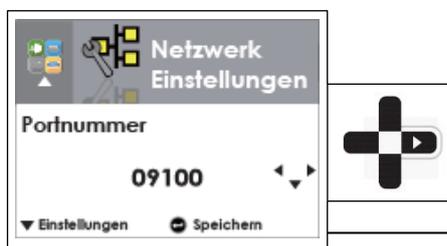
Select the **[Accessories]** menu item with the directional pad and confirm the selection by pressing the Enter button.



Select the sub-menu item **[Network Settings]** and confirm the selection by pressing the Enter button.



[Port Number] 09100 must be entered here. Press the right-hand button on the directional pad and navigate to **[DHCP]**.



smartPRINTER Operating Instructions

[DHCP] Do not make any changes in this menu item.

Press the right-hand button on the directional pad and navigate to **[Standard Gateway]**.



Press the right-hand button on the directional pad and navigate to **[Standard Gateway]**.

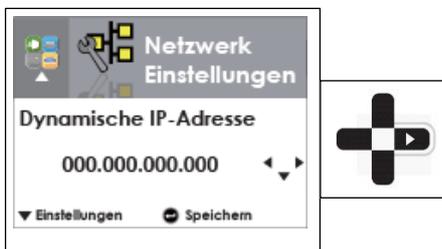
[Standard Gateway]: The assigned address is displayed. This address cannot be changed via the menu.

Press the right-hand button on the directional pad and navigate to **[Dynamic IP Address]**.



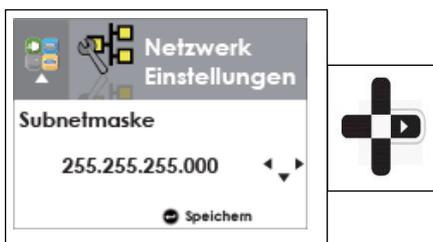
[Dynamic IP Address]: The assigned address is displayed. This address cannot be changed via the menu.

Press the right-hand button on the directional pad and navigate to **[Subnet Mask]**.



[Subnet Mask]: The assigned address is displayed. This address cannot be changed via the menu.

Press the Enter button to exit the menu item.



Switch the **smartPRINTER** on.

Launch the installation software.

Select "Install driver" from the installation menu.

Follow the steps in the driver installation program (Driver Wizard):

7.3.6 Installing the WAGO Printer Settings

The WAGO *Printer Settings* software must be used prior to commissioning and each time the print material is changed.

This sets the printer up for WAGO marking accessories.

Select “Install Printer Settings” from the installation menu.

No input is required during installation.

Follow the instructions shown on your computer screen.

The software starts automatically after it has been successfully installed.

A desktop shortcut is created for quick access to the software.

Proceed as follows in the input dialog windows illustrated below:

- Select the printer.
- Select the type of material (example: marking strips).
- Select the item number of the material.

The printer then pushes the inserted material so it can be checked, and **[Ready]** appears on the printer display.

- Click on the gear symbol to make fine adjustments or individual settings.

On a new screen, you can align the marking either vertically or horizontally, or you can optimize the printing intensity by adjusting the thermal settings for the media.



Effects of Changes to the Values Entered in the WAGO Printer Settings	
Value Entered	Result
Increase horizontal value (mm)	Marking is shifted to the right
Decrease horizontal value (mm)	Marking is shifted to the left
Increase vertical value (mm)	Marking is shifted upwards
Decrease vertical value (mm)	Marking is shifted downwards
Increase heat value	Marking becomes darker
Decrease heat value	Marking becomes lighter

Click **[Save]** to apply and save the entries made. The message **[Settings Successfully Imported]** appears as confirmation.

7.4 Cleaning and Maintenance by the User



Warning against dangerous electrical voltage:

Disconnect the printer from the power supply before any maintenance and cleaning work!

The printer requires little maintenance. Regular cleaning of the print head and print roller is important. This assures a consistently good print image and contributes considerably to the prevention of premature wear.

7.4.1 General Cleaning

Do not use abrasive cleaners or solvents to clean the external surfaces or components.

- Remove dust and paper lint in the printing area with a soft paintbrush or a vacuum cleaner.
- Clean the housing with a soft, dry cloth.

Cleaning interval:

- Depends on the degree of contamination

7.4.2 Cleaning the Print Roller

Contamination of the print roller may result in a poor print image and impaired material transport.

To clean the print roller, use 99 % isopropyl alcohol (IPA) and a soft, clean, lint-free cloth free of hard particles.

Remove the print roller for cleaning.

Cleaning interval:

- Each time after the print material is changed
- If the printed image suffers
- If transport of the print material is impaired

7.4.3 Cleaning the Label Sensor

Contamination such as dust or print material residue on the optical scanner system of the label sensor lead to incorrect detection or failure to detect the print material. This leads to printing errors.

Cleaning steps

- Switch the printer off.
- Open the housing cover.
- Remove contamination from the label sensor.

Cleaning interval:

- Visual inspection each time after the print material is changed
- If the printed image suffers

7.4.4 Cleaning the Print Head



CAUTION!
Do not touch the print head.
Risk of injuries due to hot print head!
The print head must cool off before cleaning.

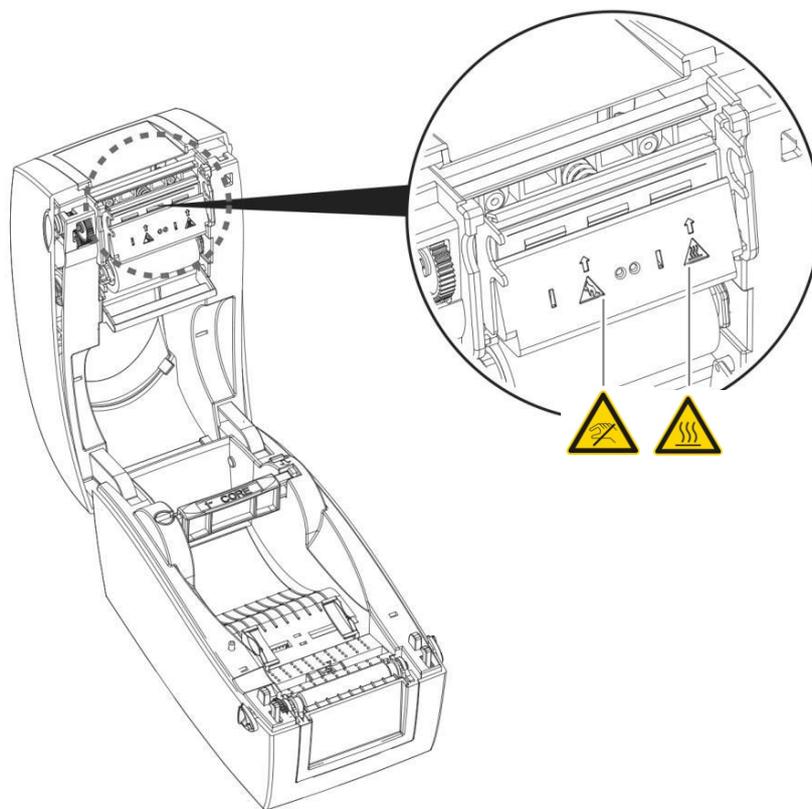
During the print process, contamination may accumulate on the print head and negatively affect the printed image.

Ink ribbon contamination or adhesive residue from label materials contaminate the printer and can lead to inadequate printing quality.

The printer must be closed during the printing process.

Protect the print material against dust and dirt. This prevents premature wear of the print head.

To clean the print roller, use 99 % isopropyl alcohol (IPA) and a soft, clean, lint-free cloth free of hard particles.



Cleaning steps

- Switch the printer off.
- Open the housing cover.
- Remove the ink ribbon from printer.
- Remove the contamination from the print head with a soft, lint-free cloth soaked in IPA.

Cleaning interval:

- Each time after the ink ribbon is changed (printing medium)
- If the printed image suffers

7.5 FAQ - Fault Description & Troubleshooting

Fault description	Cause of fault	Troubleshooting
The smart PRINTER does not go into operation.	Hardware defect	Contact Support.
The print media is not printing.	The ribbon was installed incorrectly.	Check the installed ribbon. Install the ribbon with the matte side out.
	No print media has been selected in the WAGO-Printer-Settings.	Select the print media in the WAGO-Printer-Settings.
	The installed print cylinder does not fit the print media used.	Install the right print cylinder for the print media used.
The printed image has an unwanted vertical or horizontal offset.	WAGO-Printer-Settings software was not used.	Install and use the WAGO-Printer-Settings software.
	The values in the WAGO-Printer-Settings are not optimized.	Correct the values in the WAGO-Printer-Settings.
		Read the main steps for the selected print media and make the recommended settings.
Network printing does not work.	Incomplete or missing network configuration in the printer menu.	Set the IP configuration on the device.
	Network operation via Share on the Print Server not possible.	Configure the IP port in the driver for the network printer.
The smart PRINTER does not respond to print commands.	The printer driver was not installed correctly.	Check the installation of the printer driver.
	The USB connection has been interrupted.	Check the USB connection.
	The print job in the print spooler was not completed.	Delete the print job in the print spooler.
The color intensity of the printed image is too low and/or the printed image is incomplete.	The installed ribbon does not fit the print media.	Use the correct ribbon for the print media.
	The temperature value set in the WAGO-Printer-Settings is too high or too low.	Adjust the temperature value in the WAGO-Printer-Settings.
The ribbon has torn.	The temperature value set in the WAGO-Printer-Settings is too high.	Adjust the temperature value in the WAGO-Printer-Settings.
	The installed print cylinder does not fit the print media used.	Install the right print cylinder for the print media used.
	The wrong values have been set in the printer menu.	Open the lock in the printer menu under Settings/Density.
The print media is not supported.	The smart PRINTER firmware is not up-to-date.	Update the firmware. Current firmware at: http://www.wago.com/smartprinter
Message in the display: Check ribbon	The ribbon is empty.	Install new ribbon.
	The ribbon was installed incorrectly in the smart PRINTER.	Check the installed ribbon. Install the ribbon with the matte side out.
Message in the display: Check media	The print media is not detected / check sensor position.	Restart the printer and align the sensor on the marking on the enclosure. Recalibrate the printer using the button on the back of the device.
	No ribbon is installed in the smart PRINTER.	Install the ribbon. Install the ribbon with the matte side out.

7.6 Support and Repair

Please direct any questions that these instructions do not answer to our experts at **smart**PRINTER support.

Send an email with a thorough description of your issue to:
smart.printer@wago.com

If a repair is necessary, our experts in **smart**PRINTER Support will provide you with the assistance necessary to set it in motion quickly and straightforwardly.

7.7 Return and Disposal

WAGO offers you the option of returning the printer in line with our legal obligations at the end of the printer's service life.

If the printer is not returned to the manufacturer, it must be disposed of in accordance with the valid guidelines and regulations.

The printer contains electronic components, cables, metals, plastics etc. and must be disposed of according to the applicable environmental regulations of the respective country.

Disposal of the product is subject to the Electrical and Electronic Devices Act (ElektroG) in Germany and to WEEE/EU Directive 2002/96/EC or the respective national legislation.



In some EU countries such as Germany, Marking with the WEEE symbol – the bar underneath the crossed-out waste bin – is not required for devices only used commercially, but WAGO uses it uniformly throughout Europe for this device. This symbol means that the device must not be disposed of at public collection sites. Devices with this marking must not be thrown away with household trash.