



HD 650 DC-V

EcoPak 07

TRANSLATION OF THE ORIGINAL OPERATING INSTRUCTION

Valid for device software versions 10-0505-01-01 / 10-0496-02-02

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Introduction

Preface

Thank you for purchasing this sealing device.




These instructions contain information on the use, maintenance and care of the device.

This sealing device is a microprocessor controlled rotary sealer for packaging sealable transparent pouches and reels (medical packaging).



Please read these operating instructions carefully before commissioning so that you are familiar with the capabilities of the device and you can make optimum use of its functions.

Legend

	The exclamation mark in the triangle draws your attention to important notes in the operating instructions, which must absolutely be observed.
	This warning sign refers to measures that could pose a risk to human health if not observed. It is compulsory to observe it.
	Tips with a hand symbol next to it refer to everyday practice.

Important notice



In accordance with the intended use, the CE marking is shown on the basis of the following EU directives.

The Medical Devices Directive 93/42/EEC and the Medical Device Regulation 2017/745 (MDR) do not apply to sealing devices.

The limit values of IEC 60601-1 must not therefore be used for repeated electrical inspections.

The manufacturer does not accept any liability for damage caused by tests according to standards that are not listed in the declaration of conformity.

If the device is modified or tampered with without the manufacturer's express permission, the warranty is invalidated and any liability for physical or material damage is transferred to the operator.

Note

We are constantly improving our products, therefore we reserve the right to modify these operating instructions and the functions described in them.

These operating instructions apply to products in the EcoPak 07 series.

Cleaning

Before cleaning, pull the mains plug out of the socket and disconnect the device from the power supply unit with the plug. Clean the device only with a dry or slightly damp soft cloth and a mild cleaning agent. (For example: Isopropanol, spirit, etc.) Prevent water from finding its way into the device.

Caution! Never wet clean the device!

Safety instructions



1. In terms of their safety technology, our products are in perfect condition when they leave our factory.
2. In order to maintain this condition, the contents of these safety instructions as well as the type plates, labelling and safety information attached to the device must be observed during handling of the device (transport, storage, setup, commissioning, operation and maintenance).
3. This device is suitable for processing sealable pouches and reels. See "Intended use".
4. Please check the packaging and report any defects to the carrier or parcel service immediately before setting up the device.
5. Before commissioning, make sure that the device shows no signs of damage. If in doubt, please contact the manufacturer or an authorised service partner appointed by the manufacturer.
6. Do not use the device if the mains cable, mains plug or power supply unit is damaged. Do not use the device if it does not operate correctly or it is damaged in any way. If the mains cable or the machine is damaged, it must be repaired by the manufacturer or one of the manufacturer's authorised service partners.
7. The device needs to be connected to an earthed socket with a stable voltage using the mains cable supplied. Use in IT networks is not permitted.
8. Place the device on a stable surface.
9. The device may only be installed and operated in dry, non-potentially explosive areas.
10. Condensation may form if the sealing device is brought directly from a cold environment into a warm environment. Wait until temperature equalisation has taken place.
11. Repairs and the replacement of wear parts/spare parts may only be performed by the manufacturer or one of the manufacturer's authorised service partners.
12. After maintenance, servicing or repair work, it must be ensured that the heat sealing equipment complies with applicable safety requirements.
Responsibility for this lies with the operator.
13. Switch off the device when it is not in use and disconnect the mains plug from the socket.
14. Do not use the device if you have any doubts about its safety.
15. Do not insert pointed or flat items into the import slot of the device. This can result in damage to the device and the instruments as well as an electric shock.
16. The device must not be installed or operated by persons under 14 years of age.
17. The device must not be operated unsupervised.
18. It is forbidden to operate the device when under the influence of drugs or alcohol.



19. Keep hair, clothing and gloves away from moving parts! Loose clothing, jewellery or long hair can get caught in moving parts.



20. The device contains valuable materials that can be recycled and reused.
The device should therefore be disposed of and recycled at a public disposal facility near you.
The device has been labelled in accordance with Directive 2012/19/EU (WEEE) on waste electrical and electronic equipment.
This directive governs the return and recycling of scrap equipment within the EU.

Before commissioning

Intended use

SEALABLE MATERIALS

Sealable paper pouches in accordance with EN ISO 11607-1/EN 868-4	x
Sealable pouches and reels made of film in accordance with EN ISO 11607-1/EN 868-5 and made of paper in accordance with EN 868-3	x
Sealable pouches and reels made of film in accordance with ISO EN 11607-1/EN 868-5 and uncoated materials made of polyolefins in accordance with EN 868-9 (e.g. Tyvek® ¹)	x
Sealable pouches and reels in accordance with ISO 11606-1/EN 868-5 made of PP fleece or PP textile composite material	x ²
Aluminium laminated film	x ²

NON-SEALABLE MATERIALS

Soft PVC films
Polyamide films
Coated HDPE
Polyethylene films
Hard PVC films
Polypropylene films

¹ Tyvek® is a registered trademark of E.I. du Pont Nemours.

² Release and / or testing required

The device is also intended

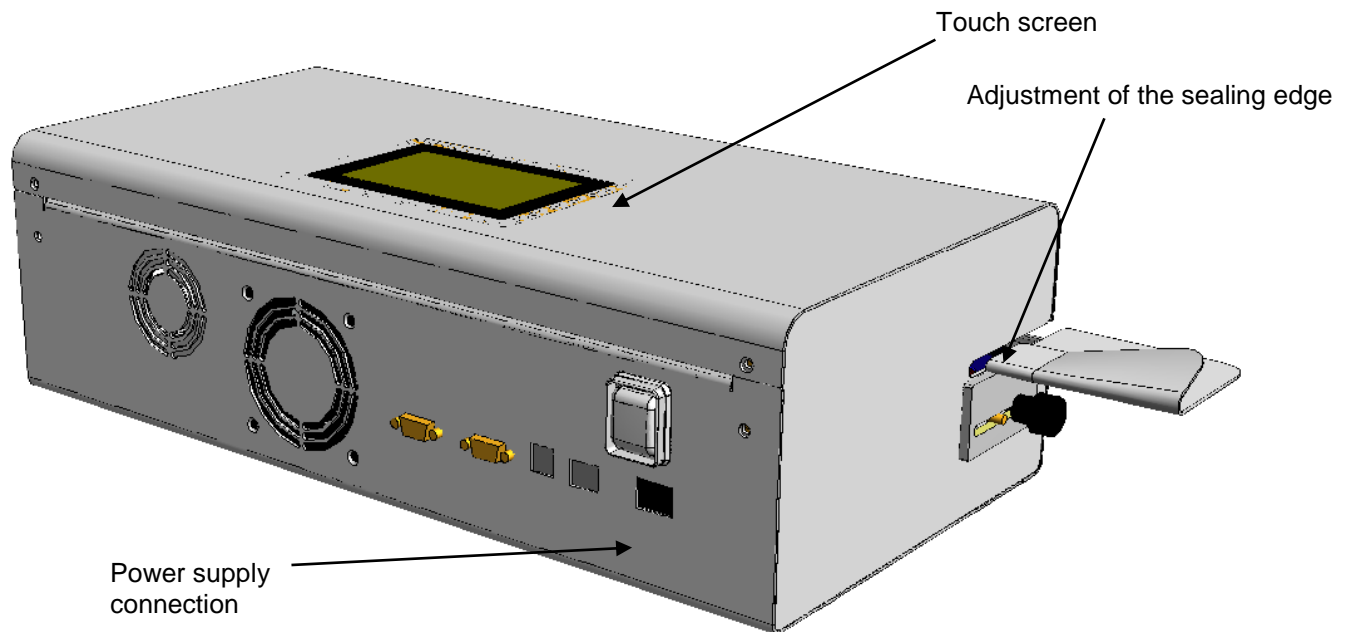
- a) for use at work
- b) for use by persons aged 14 years and over
- c) for operation by instructed persons



The packaging of foodstuffs and hazardous substances (substances hazardous to health, in particular toxic, corrosive, highly flammable and explosive substances) is not intended.

Operation in a potentially explosive environment is not in accordance with the intended use.

Setup and functions



2.2.1 Sealing procedure sequence

- Step 1:** After the medical packaging has been inserted, the feed is automatically switched on.
- Step 2:** The medical packaging is now fed and the sealing seam area is heated to the set sealing temperature by the heating elements fitted at the top and bottom.
- Step 3:** The sealing seam, which is now heated, is pressed together by the sealing rollers and sealed.
- Step 4:** The finished medical packaging is transported to the extraction side.
- Step 5:** If no further medical packaging is fed, the feed switches off automatically after 10 seconds.

Setup



The setup or operation of the device in potentially explosive atmospheres is not permitted.

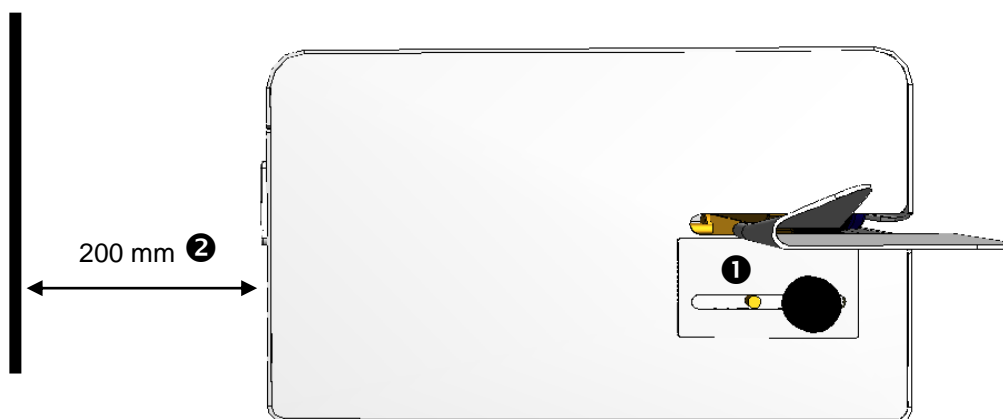
Only use sockets that are equipped with a protective earth conductor and connected to a stable mains voltage.





The device may only be installed in a dry environment. The function is impaired by high levels of dust and vapour as well as dripping or splashing water.

Make sure that the operating voltage corresponds to the specifications on the device's type plate.

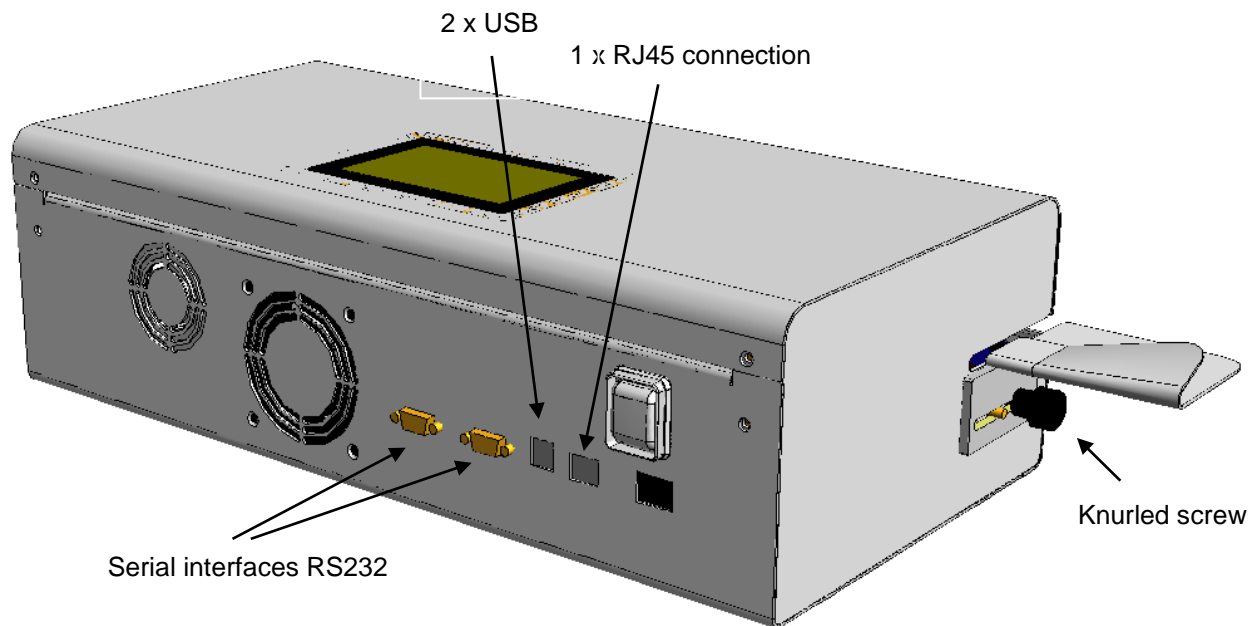
- ❶ Do **not** transport the device by the insertion plate.
- ❷ The distance to the wall must be at least 200 mm!



Inspection of the device

<p>After opening the packaging, check the device and its accessories for damage and completeness.</p>	<div> Sealing device Power supply unit Insertion plate Power cable Operating instructions (as LINK in the Software) Test report </div> <div>   </div>
---	--

Operation



- Step 1** Set the desired width of the sealing edge. After loosening the knurled screw, the insertion plate can be infinitely adjusted to sealing edge widths between 0 and 30 mm.
- Step 2** Insert the packaging into the device from the left via the insertion plate.
- Step 3** Remove the sealed packaging from the outlet side and allow it to cool briefly.



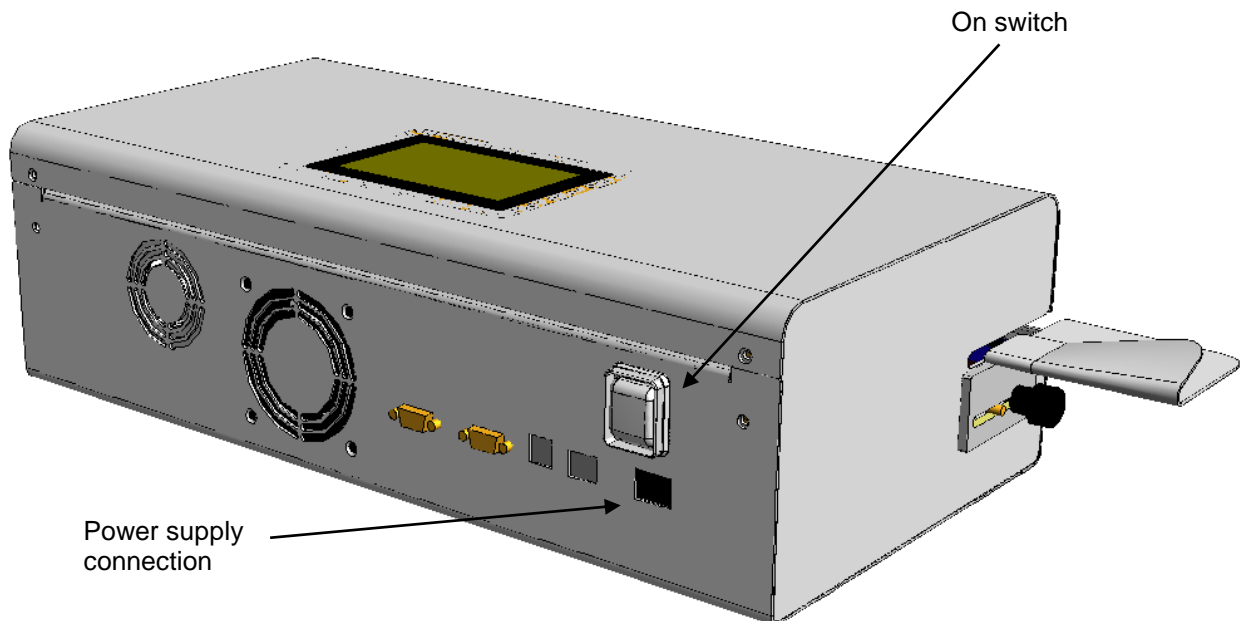
Testing the sealing seam (see Sealing seam test chapter)

The sealing temperature must be increased in case of leaks. If the film melts, the set temperature is too high.

In accordance with DIN 58953-7, the appropriate sealing temperature must be determined using a test sealant.

Basic functions

Switch on device



Plug the power supply unit into the device's power supply connection.

Now plug the power supply unit into the socket using the mains cable supplied.

Switch the device on by setting the on switch to position "1".

Set the desired sealing temperature on the temperature controller.

The device heats up and is ready for operation as soon as the set sealing temperature has been reached.

Process variables

Sealing temperature

The temperature is monitored electronically by means of a temperature sensor.

If the temperature deviates from the set value by 5°C (specifications in accordance with DIN 58953-7), the drive is disabled.

Contact pressure

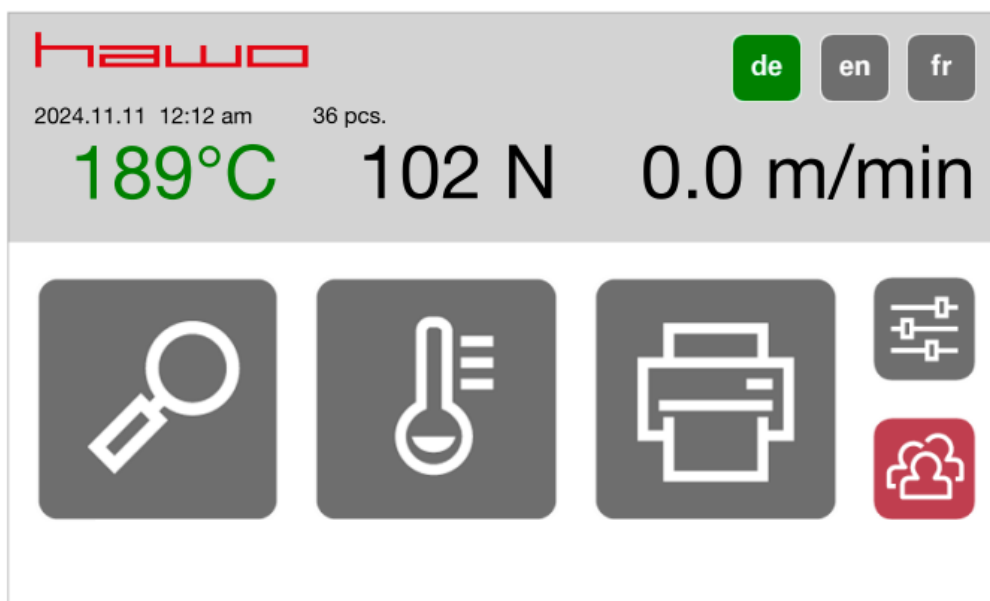
The contact pressure is monitored electronically by means of a strain gauge.

If the set value deviates within the tolerance range of +/-20%, an alarm message is issued (as specified in DIN 58953-7) and the sealing process is blocked.

Sealing speed (holding time)

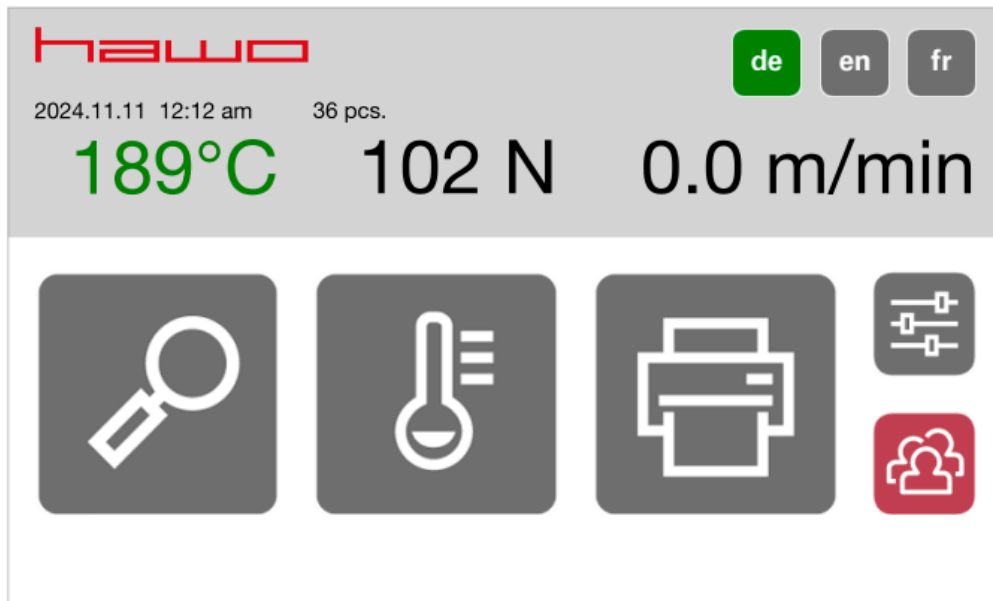
The sealing speed (exposure time) is monitored electronically by means of a speed sensor. An alarm message is issued if the value deviates +/-10% from 10m/min. (as specified in DIN 58953-7) and the sealing process is blocked.

Explanations of the home screen



Symbol	Function	Note
189°C	Display of the current sealing temperature	
102 N	Displays the current pressing force	
0.0 m/min	Displays the current throughput speed	Value > 0 only when the motor is running
	Log in	Log in/out user (see Operator chapter)
	Control centre	Check of the heating, DMS module and motor functions as well as the device operating data
	Display of the total batch counter / the set quantity	
	Seal test	
	Selection of the sealing parameters used	
	Printer settings	Settings for internal printer

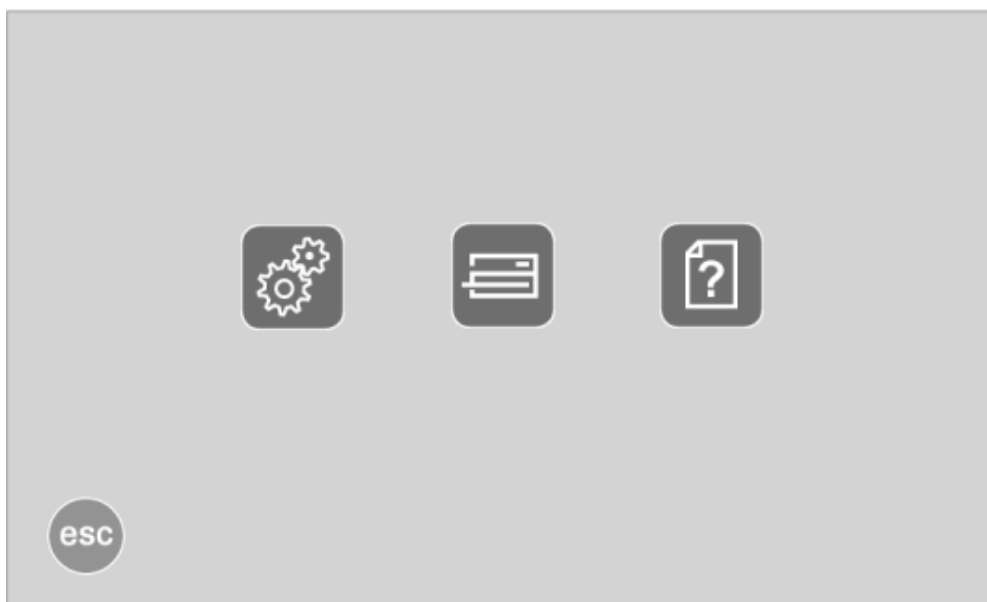
Temperature setting






Symbol	Function	Note
	Temperature setting	Press and hold one of the buttons 1, 2 or 3 to change the corresponding settings.
	Temperature selected by tapping	A temperature must be selected.
	Temperature not selected	
	Colour selection for the different temperatures	The colour changes each time the button is pressed.



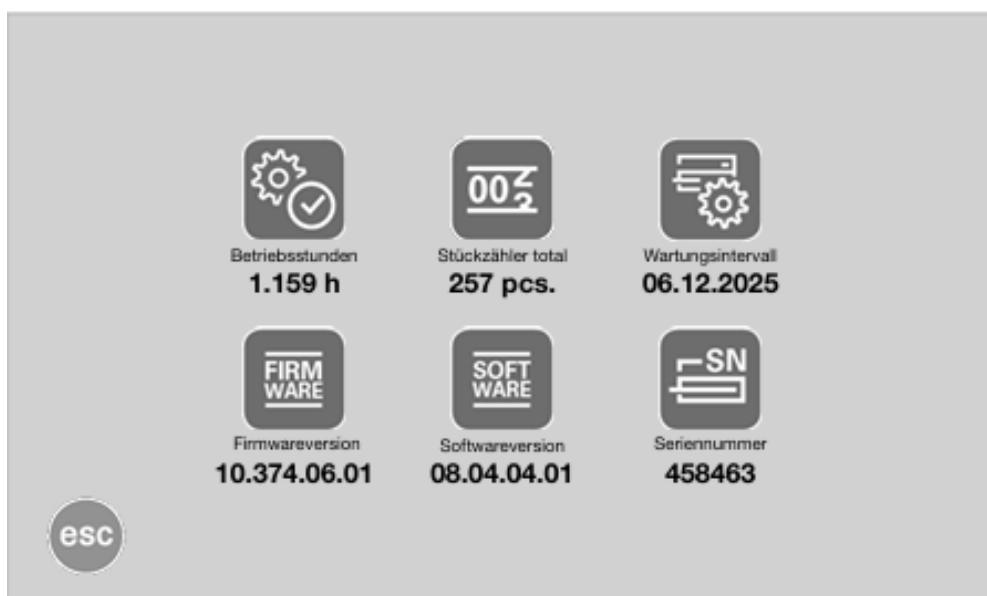
Control centre



3.5.1 Monitoring display (Just after a system reboot)

Symbol	Function	Note
	Monitoring of the temperature	Monitoring of the process variables: The symbols indicate whether the device's respective sensors are working. By tapping one of the 3 symbols, the sensor status of all 3 values is queried and the respective symbol is then labelled as "red" or "green".
	Monitoring of the contact pressure	
	Monitoring of the speed (dwell)	

3.5.2 Device's operating data display.



3.6 Sealing seam inspection – "Seal Check"

Check the process variables (temperature, contact pressure and sealing time [holding time]) using the "SEAL CHECK" function.



The Seal Check seal indicators are not suitable for packaging with side folds.

This test should be performed and documented before and after the daily working process and/or before/after each batch.

It is recommended to use the sealing device's SEAL CHECK function in addition to the SEAL CHECK sealing indicator.

Before the test, the sealing device must be ready for operation and the set temperature must have been reached.

Symbol	Function	Note
	Seal test	Execution of a routine test Seal test, ink test or peel test

Activation and start of the sealing seam test

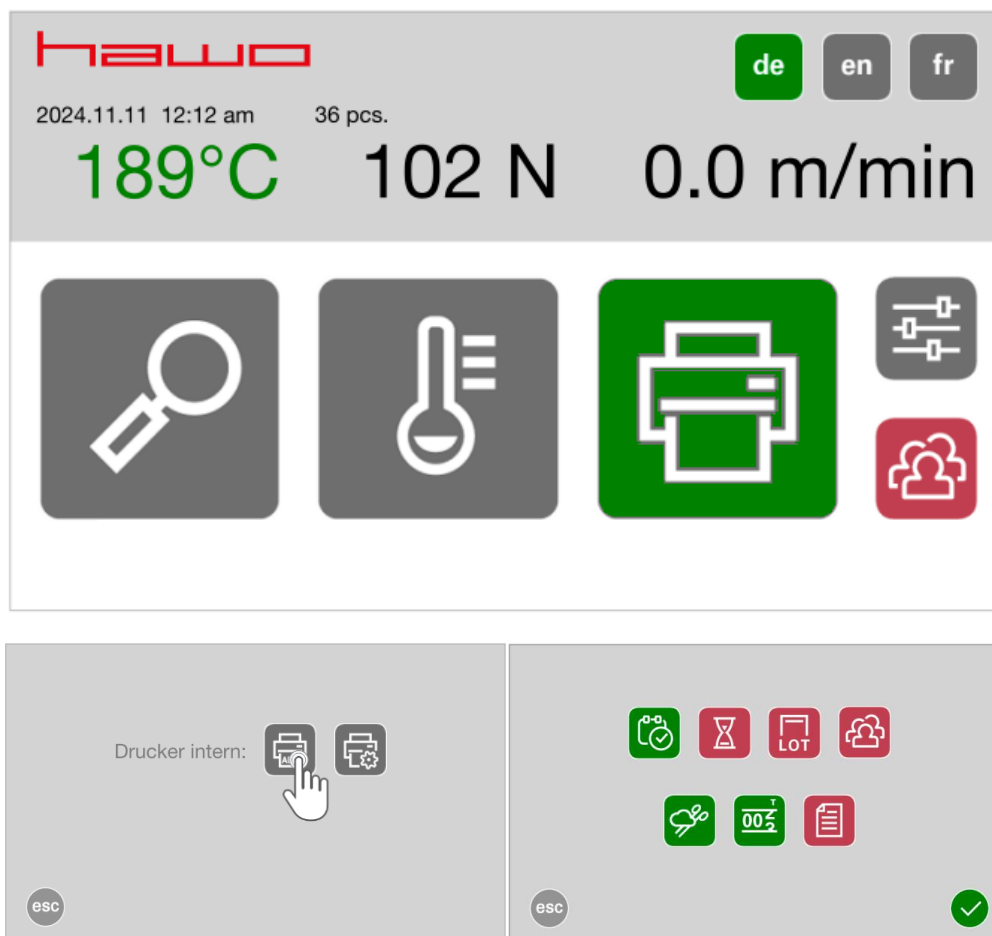
1. Activate sealing seam test
2. Select type of sealing seam test
3. Insert med. packaging with a minimum width of 200 mm and start the Seal Check.

This key is used to cancel the function

4. Evaluate the result of the sealing seam and confirm the question with the respective button.

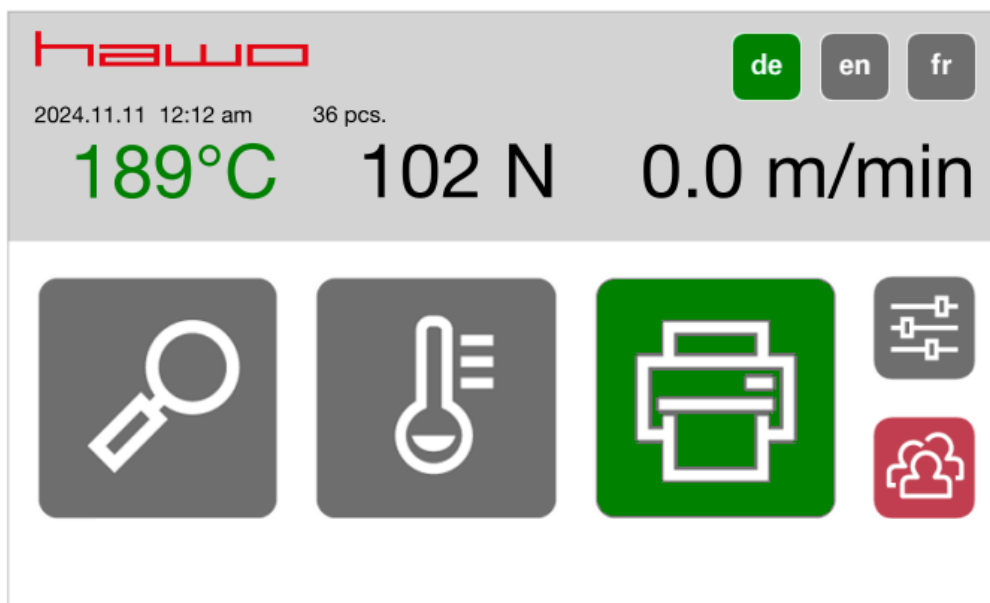
3.7 Printer settings

3.7.1 Printer functions

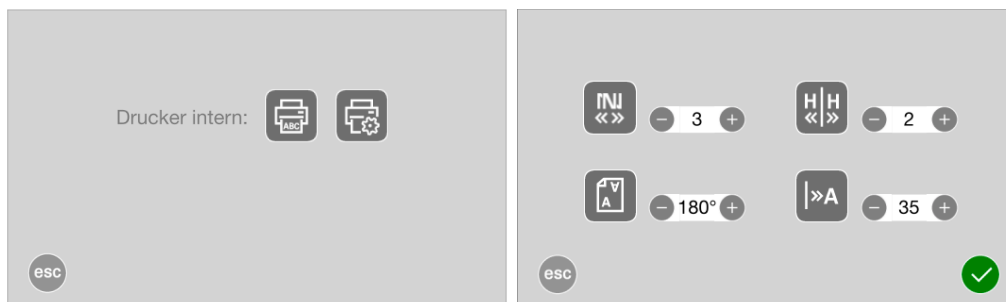


Symbol	Function	Note
	Date / Time	Switches the individual print functions on or off Printer function ON Printer function OFF
	Expiry	
	LOT	
	User ID	
	Sterilisation	
	Total counter	
	Info	

3.7.2 Printer configuration "INTERNAL"

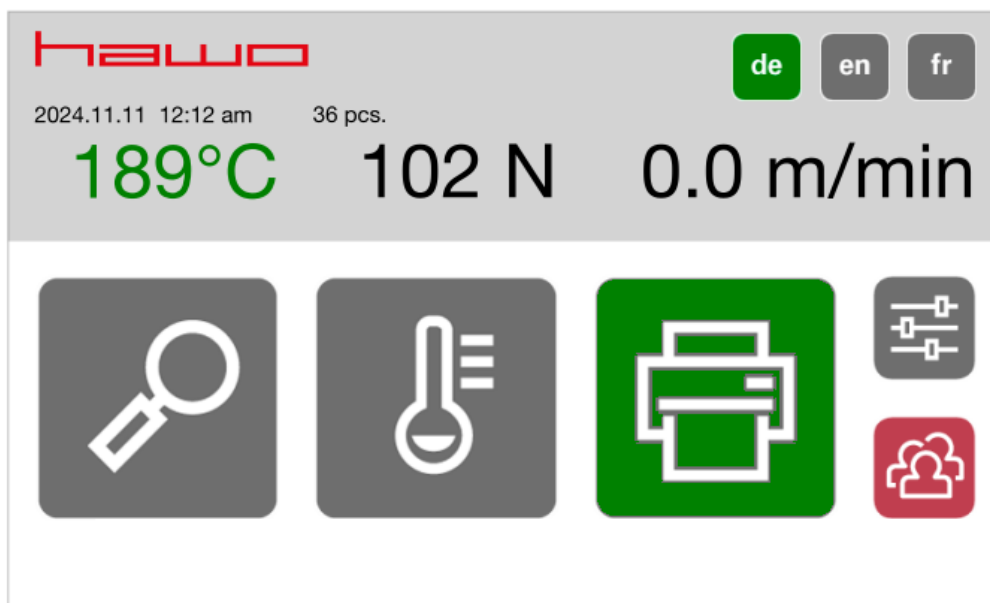


Symbol	Function	Note
	Printer ON/OFF	Press and hold the button to switch the printer on or off.

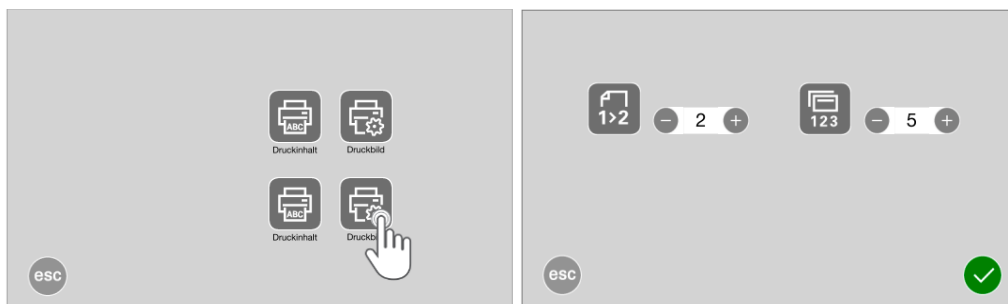


Symbol	Function	Note
	Character width	Adjustable from 1 - 3 or automatically 'A' (FontMATIC®)
	Character distance	Adjustable from 1 - 3
	Print direction	0° or 180°
	Print start	Adjustable from 0 – 100mm

3.7.3 Printer configuration “EXTERNAL”

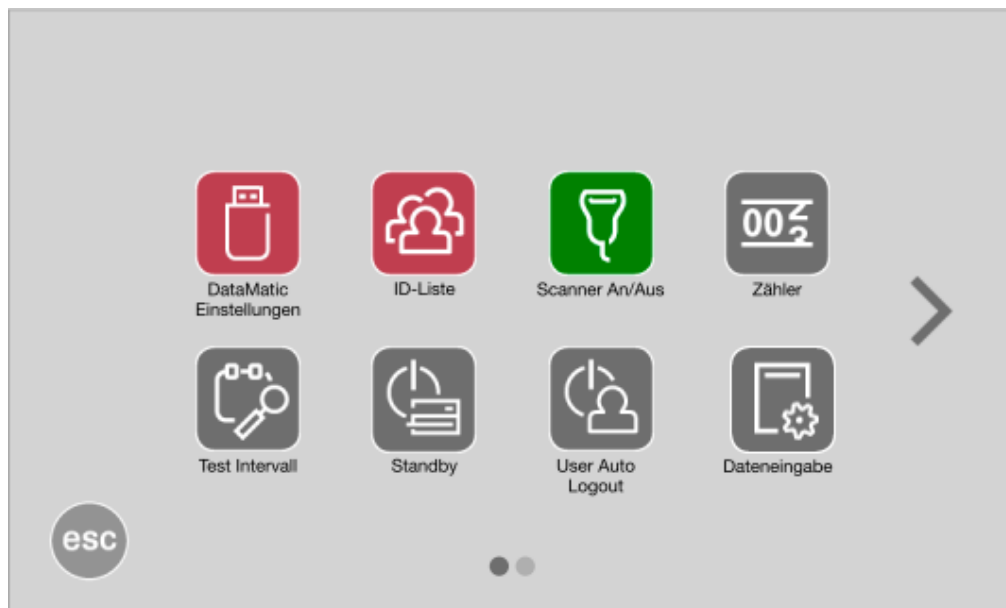










The external printer settings are just visible in case of connected printer (1.421.030)!



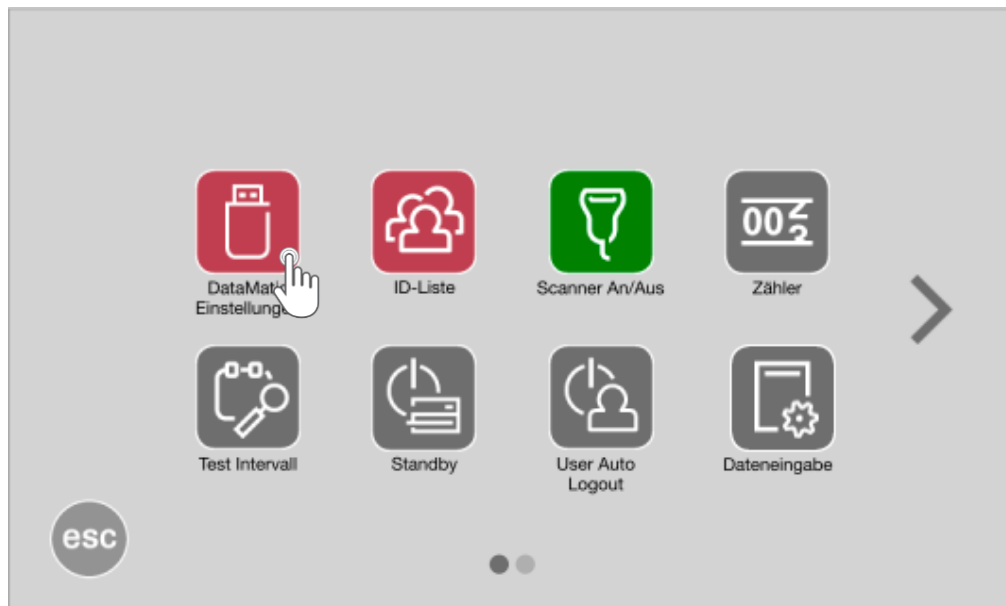
Symbol	Function	Note
	Print mode	1 → after every sealing seam 2 → after every second sealing seam
	Label count	Adjustable from 1 - 10

3.8 Settings 01



Symbol	Function	Note
	DataMatic	Selection of individual DataMatic data: Date, time, temperature, contact pressure, sealing speed, total batch counter and serial number are fixed default values.
	Name list	Creating, editing and deleting users
	Scanner	Assignment of scanned data to other functions.
	Batch counter	Setting the batch counter for counting up/down
	Test intervals	Setting different intervals for seal test, ink test and peel test.
	Standby	After the selected time, the device reduces the heat output and cools down to 80°C.
	User standby	After a selected period of time, a logged-in user is logged out automatically.
	Data input	Enter the information for LOT, CE, Info, REF and Steri

3.8.1 DataMatic



Activating the individual DataMatic function

Press and hold the button

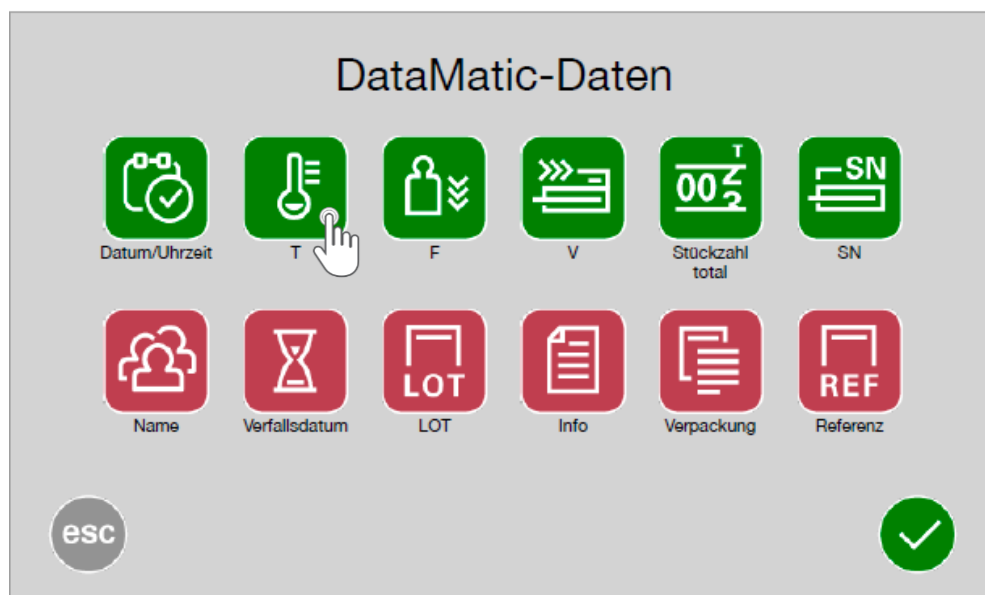


DataMatic **not** active



DataMatic active

Tapping the button opens the DataMatic menu for activating/deactivating the individual functions.



You can activate the saving and recording of the respective data by tapping the symbol.



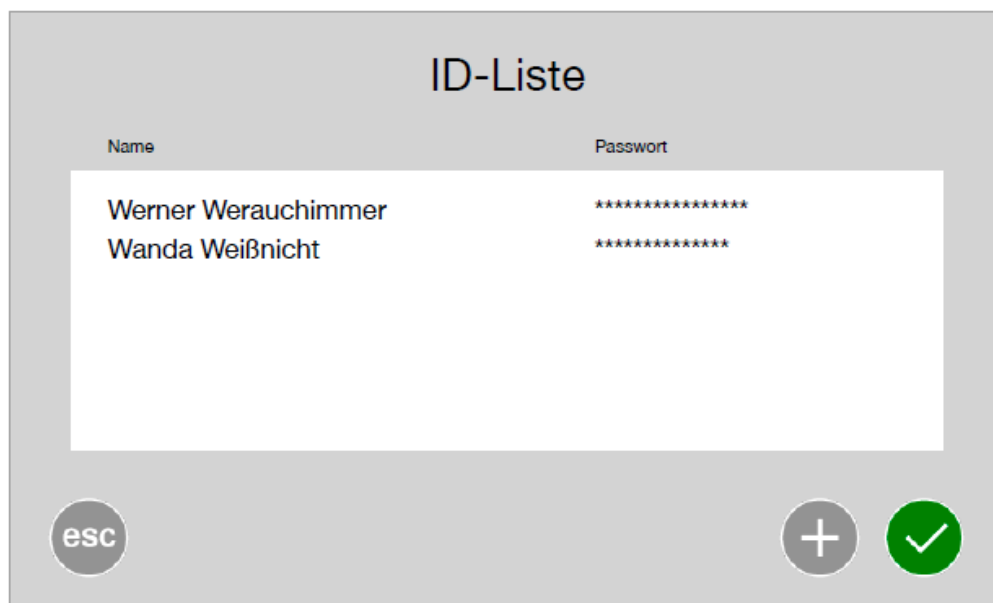
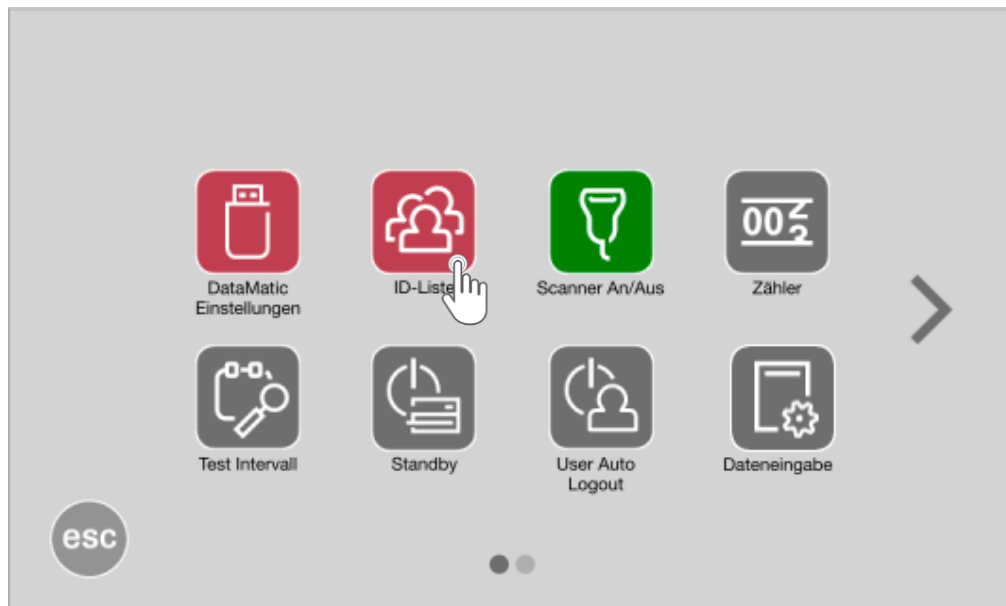
Recording **not** active





Recording active

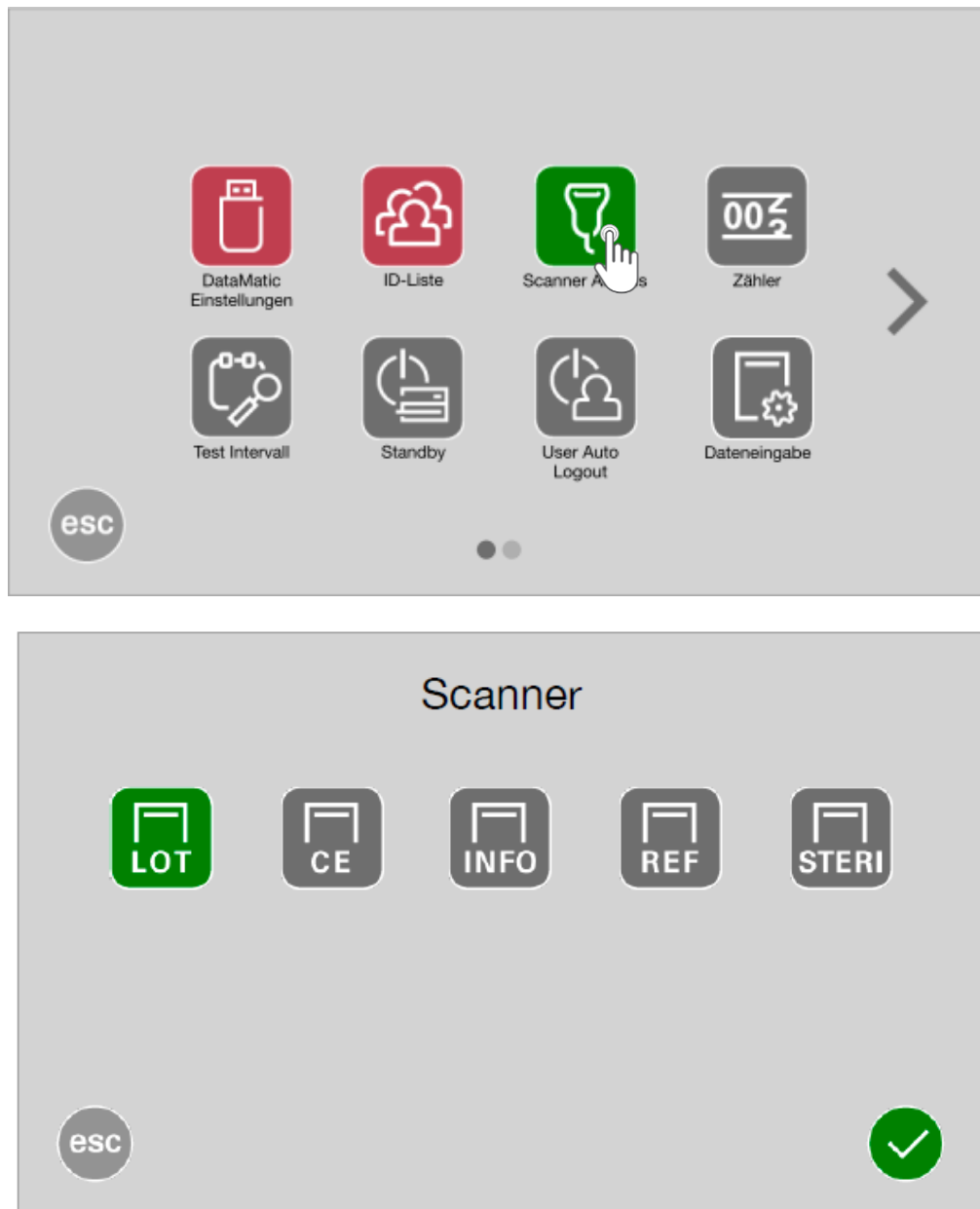
Green symbols are recorded in the DataMatic, red symbols are not saved in the DataMatic data record.

3.8.2 List of names



<div>+</div> Create a new operator	<p>A new operator is entered using the keyboard that appears. Alternatively, a USB keyboard can be used.</p>  <p>After entering the name, the system requires a numerical password with at least 5 numbers.</p> 
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3.8.3 Scanner function



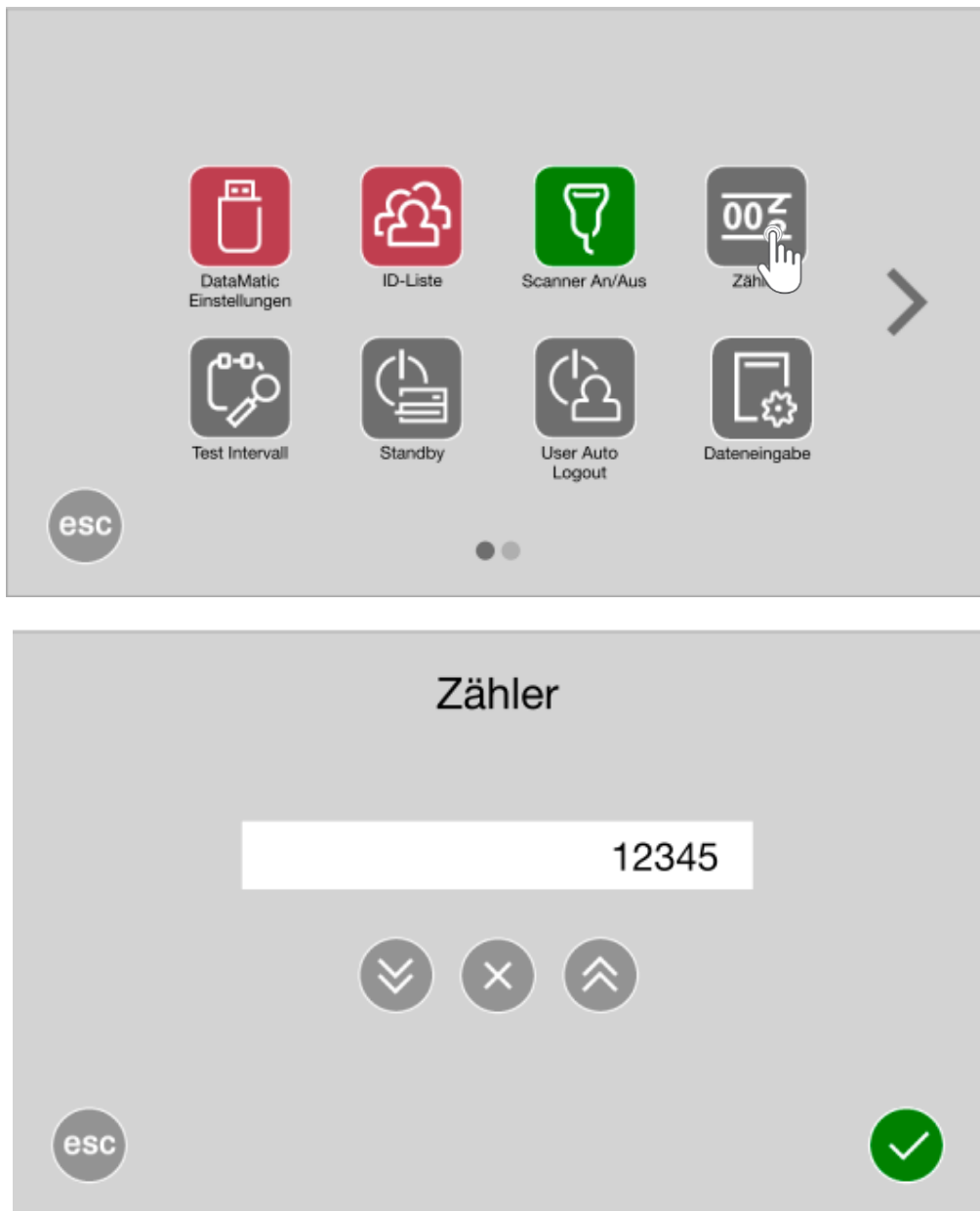
Activating the scanner function

Tapping the button selects which data the scanned information is assigned to.

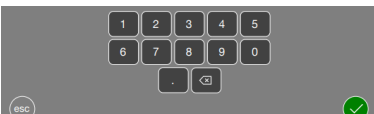


Scanned data is assigned to the sterilisation information.

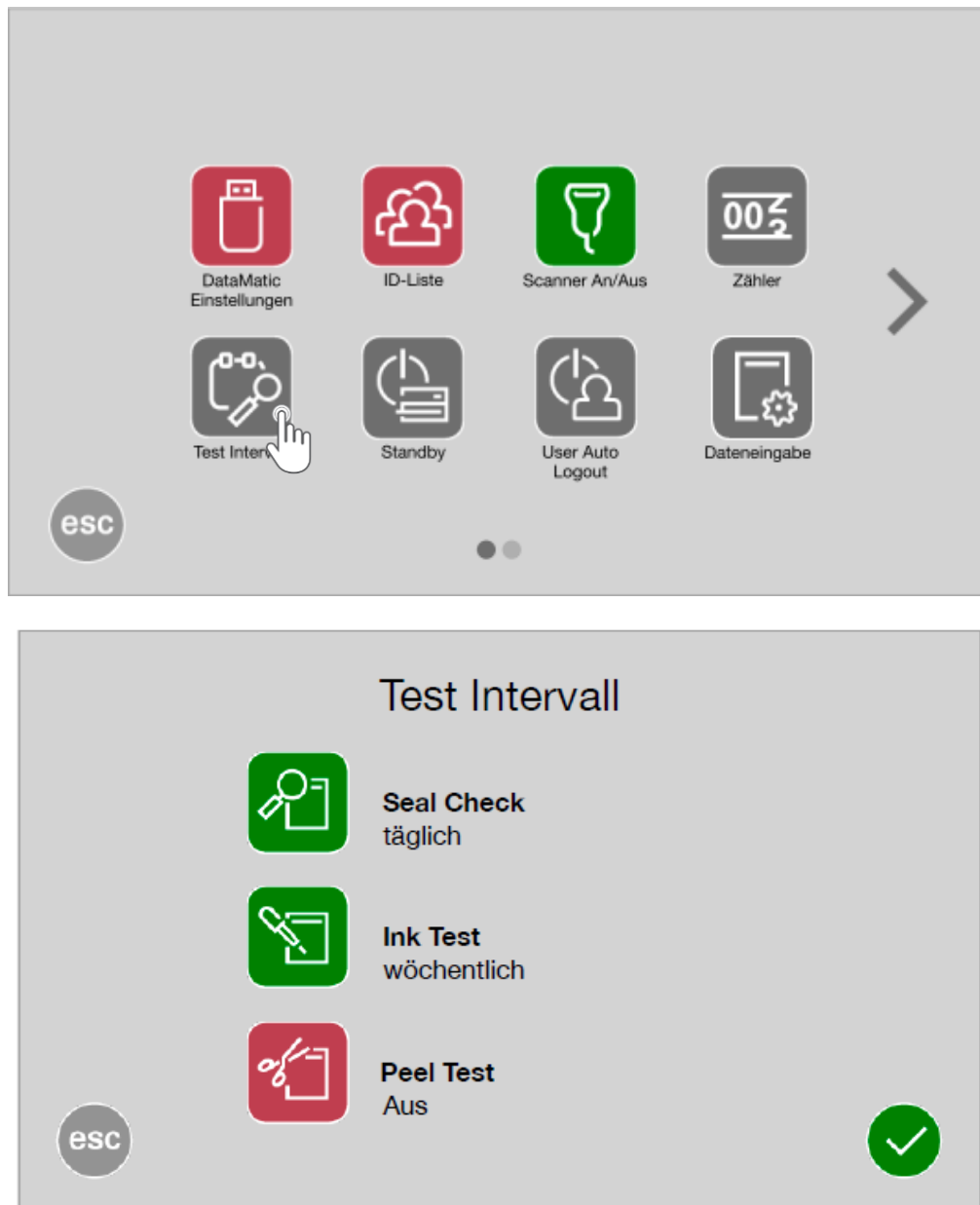
3.8.4 Batch counter



Activating the counter function

<p>✓ Save changes</p> <p>esc Discard changes and exit menu</p>	<p>◀ ▶ Batch counter counts down or up</p> <p>✕ Set batch counter to zero</p> <p>The batch counter is entered using the displayed keyboard.</p> 
--	--

3.8.5 Test intervals



Activating the scanner function

The respective test interval can be set by tapping the button.

If a test interval has been set, the button changes colour from **red** to **green**.



Save changes



Discard changes and exit menu

Adjustable test intervals:

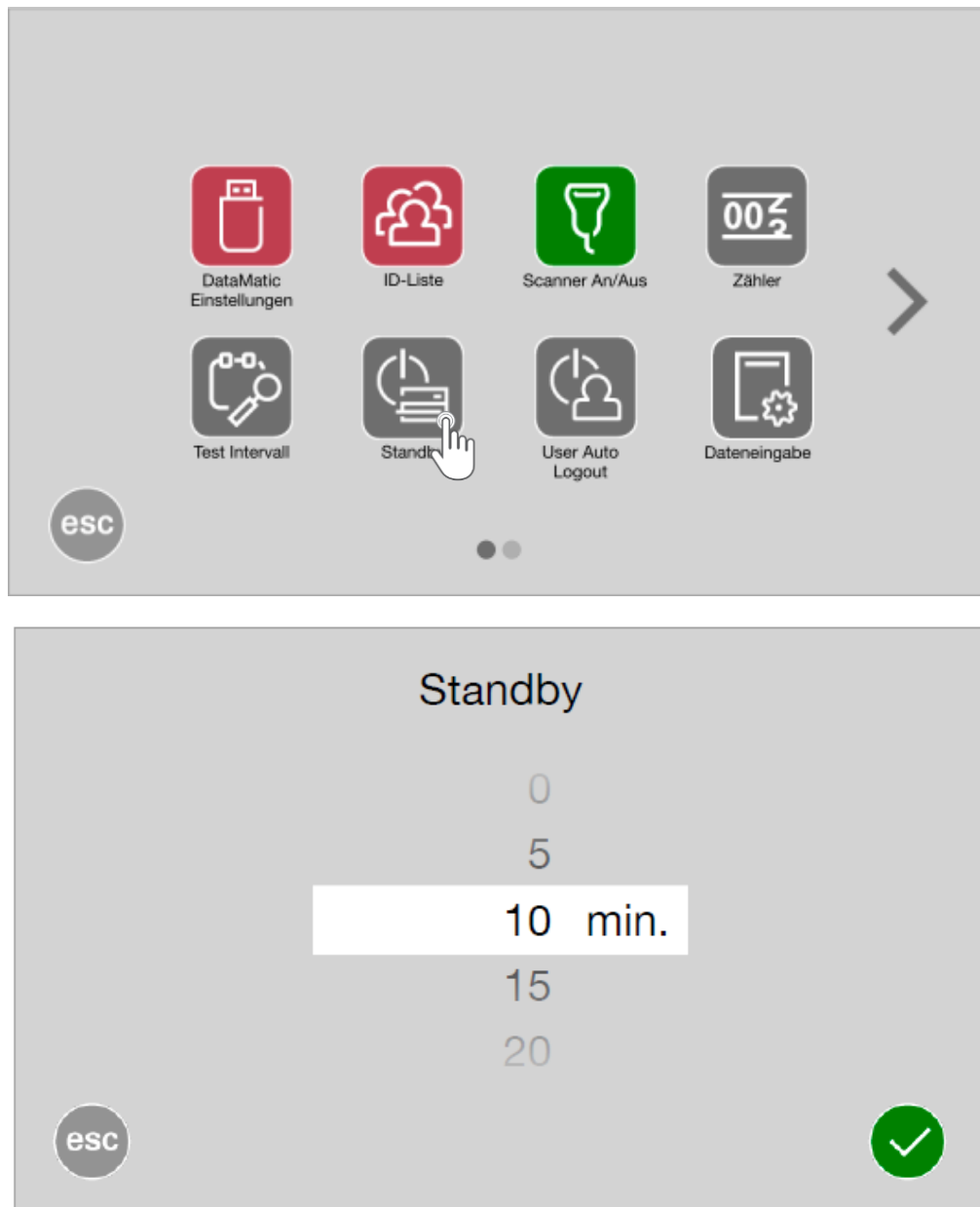
- OFF
- Daily
- Weekly
- Monthly

The interval starts as soon as a selection has been made.

Example for the selection "daily":

- ➔ Selection on 18 February 2025 at 08:00
- ➔ Reminder on 19 February 2025 at 08:00

3.8.6 Standby



Activating the standby function

The standby function reduces the heat output after a set time and regulates the device to a temperature of 80°C.



Save changes



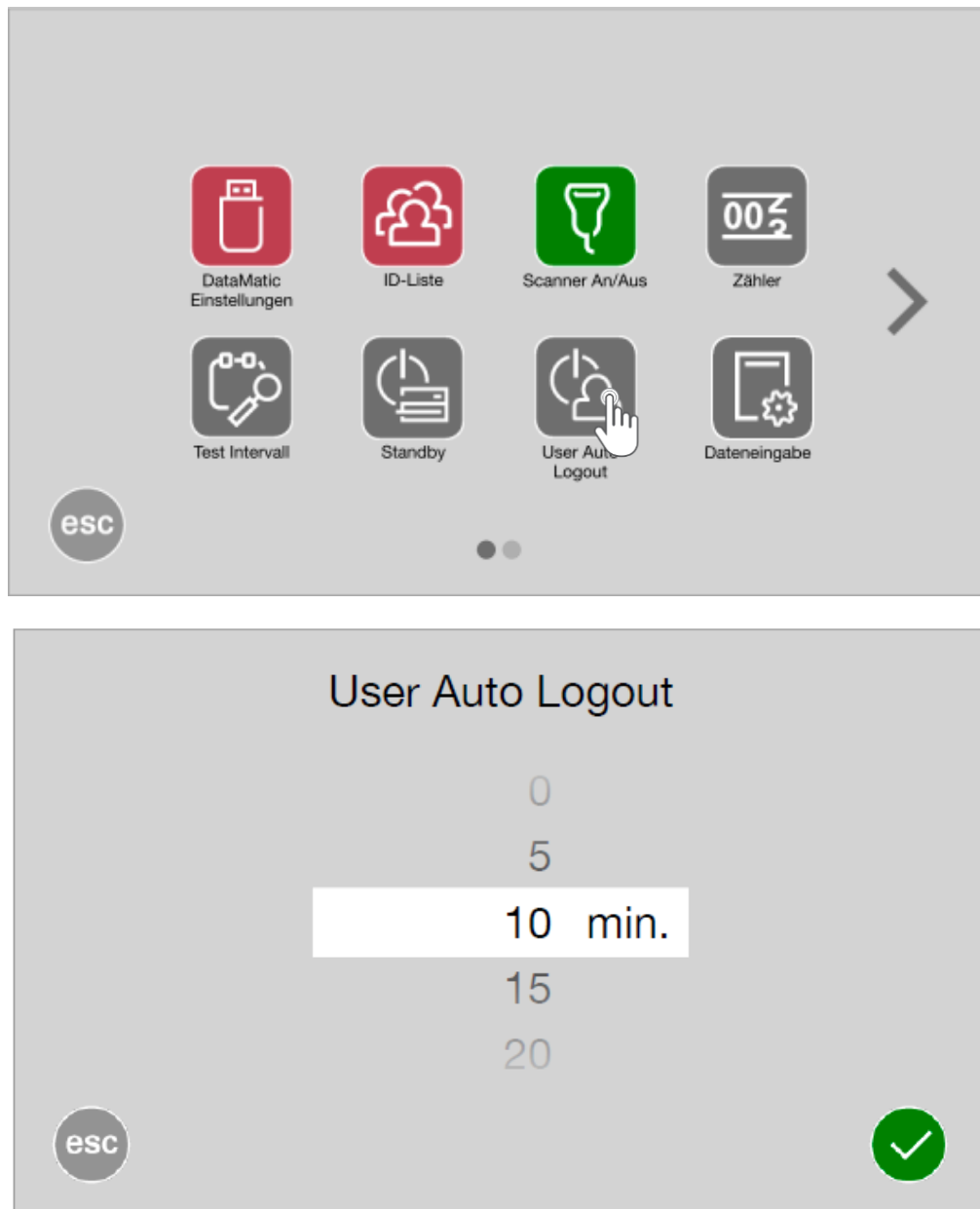
Discard changes and exit menu

Adjustable times:

- 0 = OFF
- 5 min.
- 10 min.
- 15 min.
- 20 min.
-
- 60 min.

After inserting a new package or by tapping the display, the device heats up again to the preset value. Sealing is not possible during this time!

3.8.7 Operator standby



Activating the operator logout function

The standby automatically logs off the currently logged on operator after the set time.



Save changes










Discard changes and exit menu

Adjustable times:

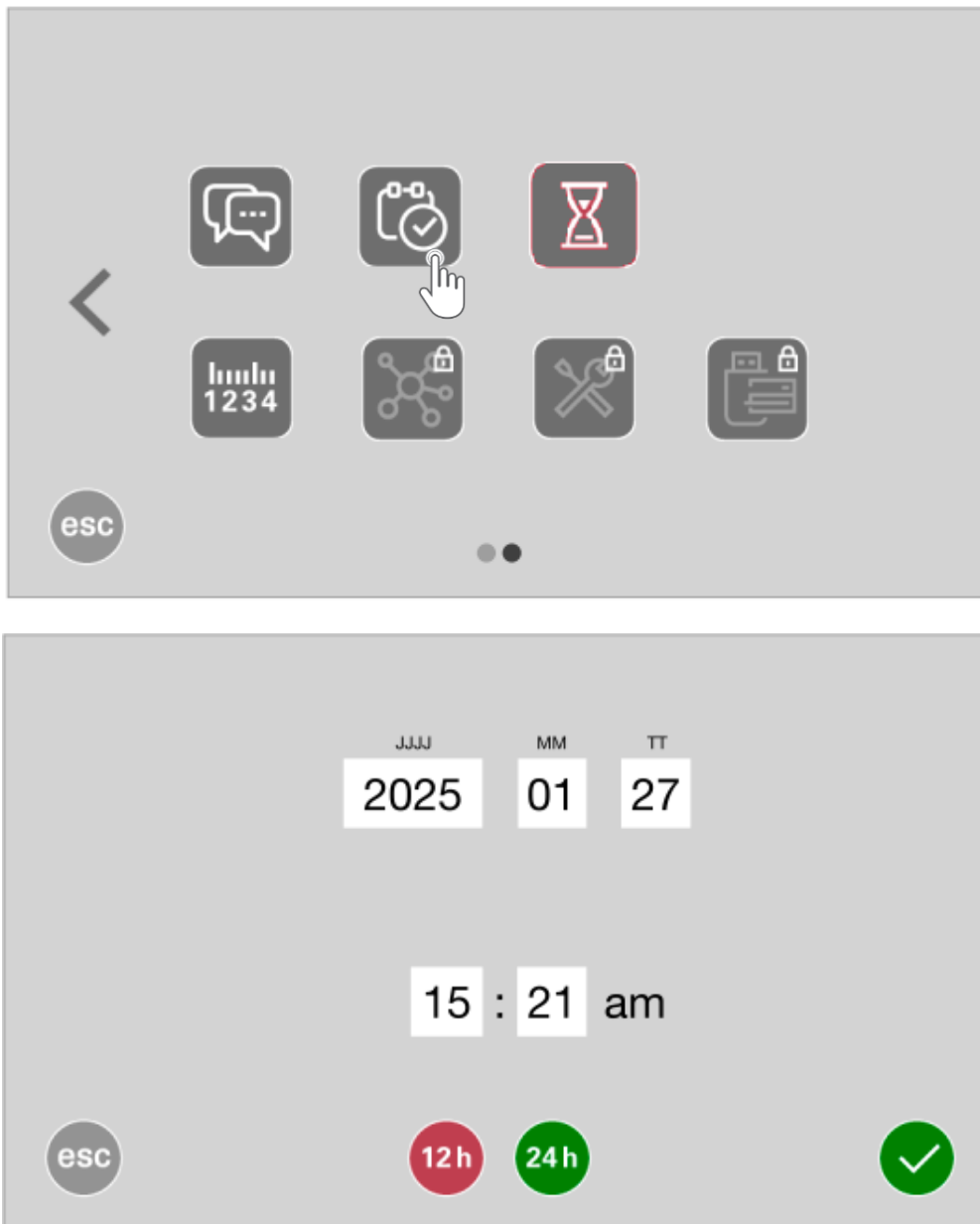
- 0 = OFF
- 5 min.
- 10 min.
- 15 min.
- 20 min.
-
- 60 min.

3.9 Settings 02




Symbol	Function	Note
	Date/time	Current date and time setting
	Expiry date setting	Enter the expiry date in days, months or as an individual entry with a fixed date
	Unit of measurement	Conversion of the units of measurement from si T[°C] ● F[N] ● v[m/min] fps T[°F] ● F[lbf] ● v[ft/min]
	Language	Defining the three languages that can be preselected via the start menu
	Network settings (IP)	Password-protected menu level for network settings
	Service settings	Password-protected menu for maintenance personnel
	Update	Performance of software updates via USB stick

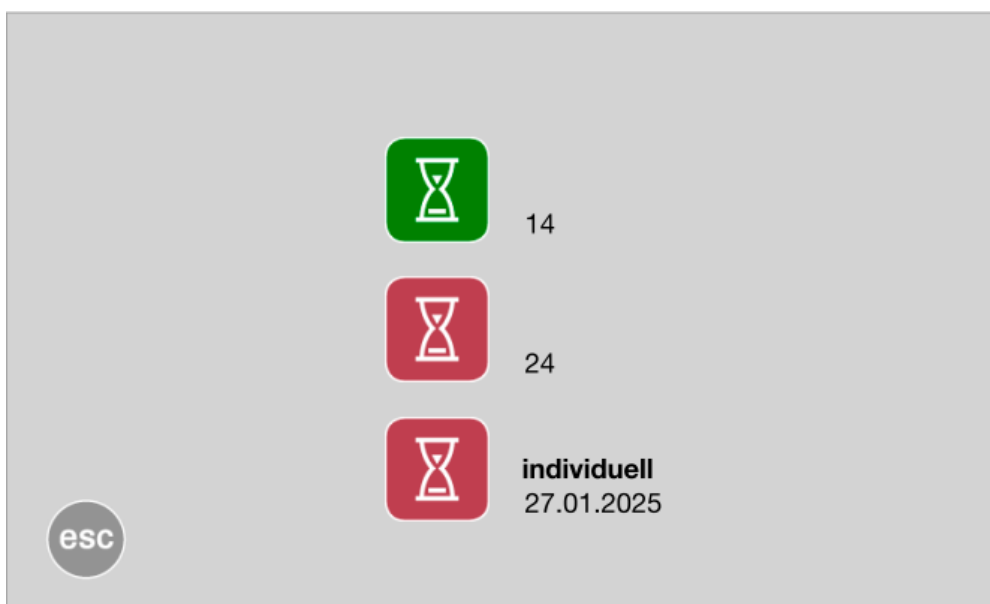
3.9.1 Date/time



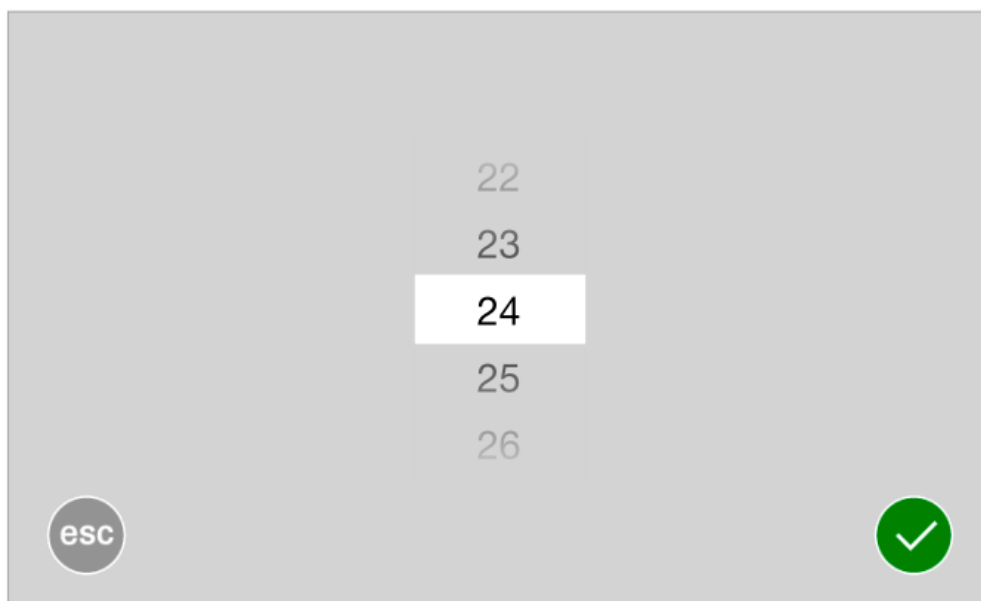
Activating the date function

<p>✓ Save changes</p> <p>esc Discard changes and exit menu</p>	<p>12 h 12 hours [am / pm] selection</p> <p>24 h 24 hours selection</p> <p>The individual data is entered by selecting the digits to be changed and entering them using the keyboard.</p> 
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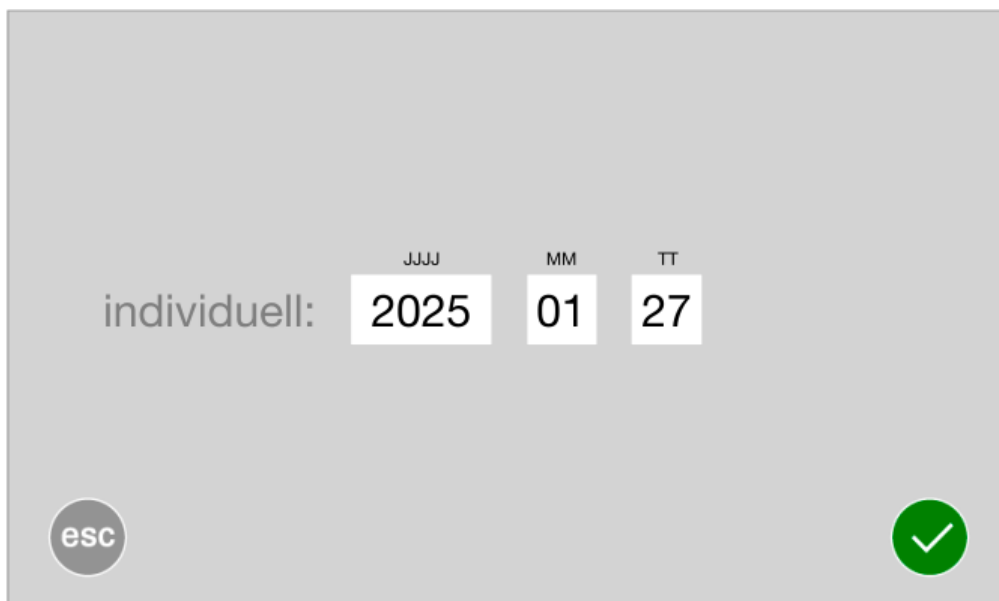
3.9.2 Expiry date



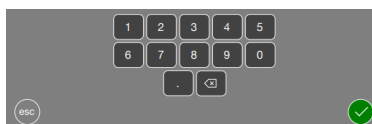
The selection for days and months is made using the scroll wheel.



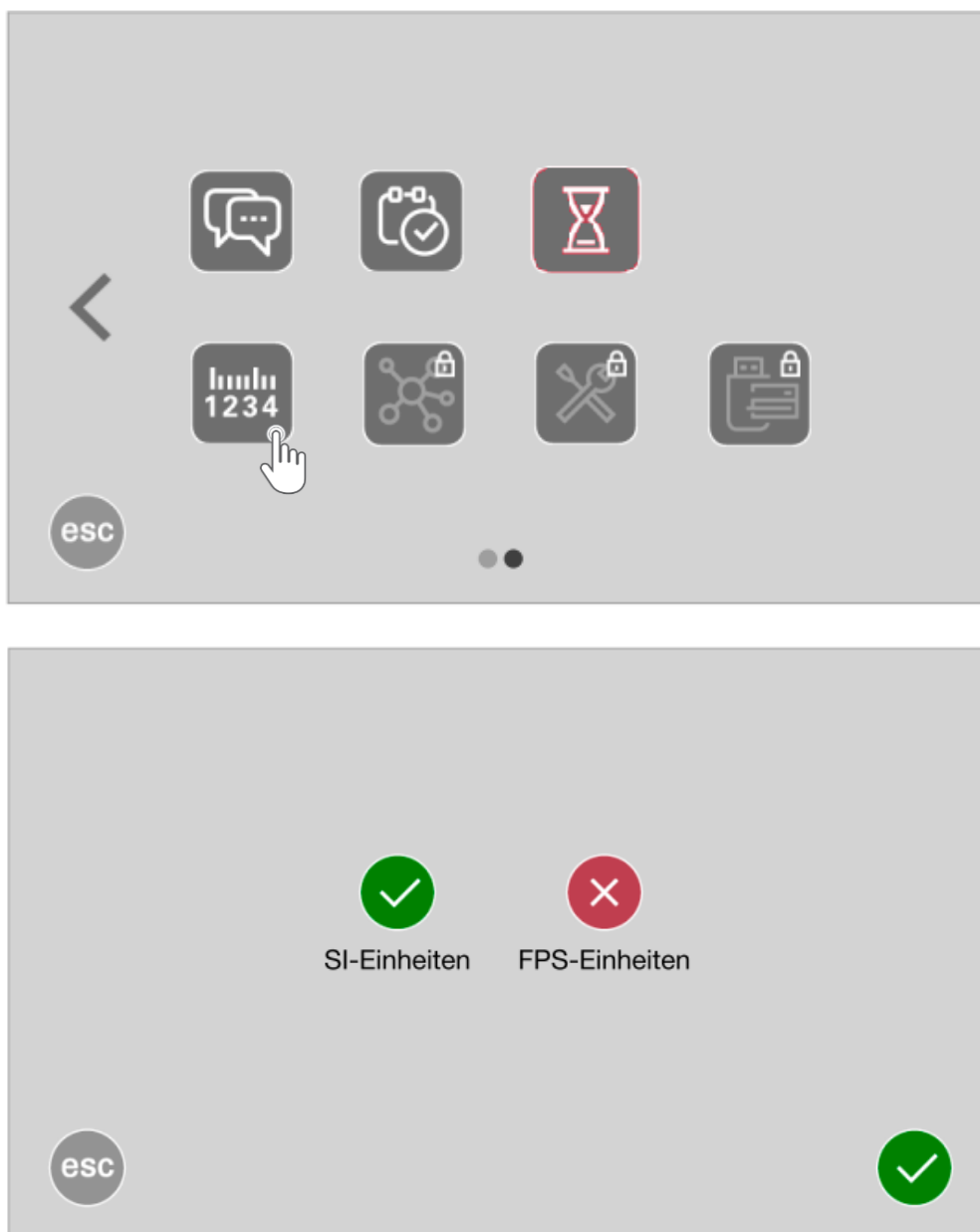
To enter the individual date, use the keyboard



After selecting the respective field, the value can be entered using the keyboard.



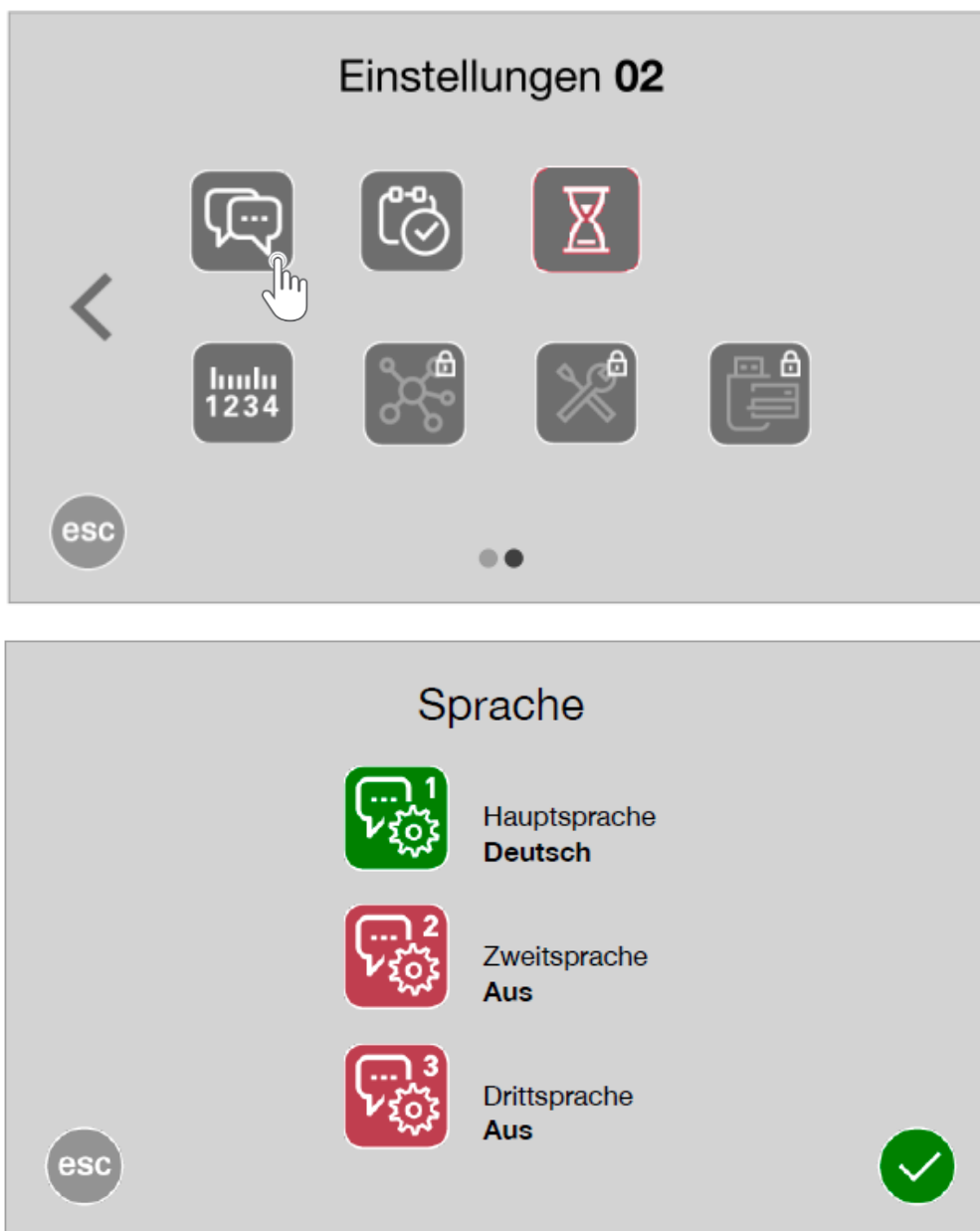
3.9.3 Unit of measurement





Changing the units of measurement

	Save changes		Active
	Discard changes and exit menu		Not active
Si	T[°C]	F[N]	v[m/min]
Fps	T[°F]	F[lbf]	v[ft/min]

3.9.4 Language



	Save changes	Customisable languages <ul style="list-style-type: none">• German• English• Spanish• French• Portuguese (subject to change)
	Discard changes and exit menu	

3.9.5 Network settings (IP)




**Important information about the network settings**

→ Please read and observe this information in advance

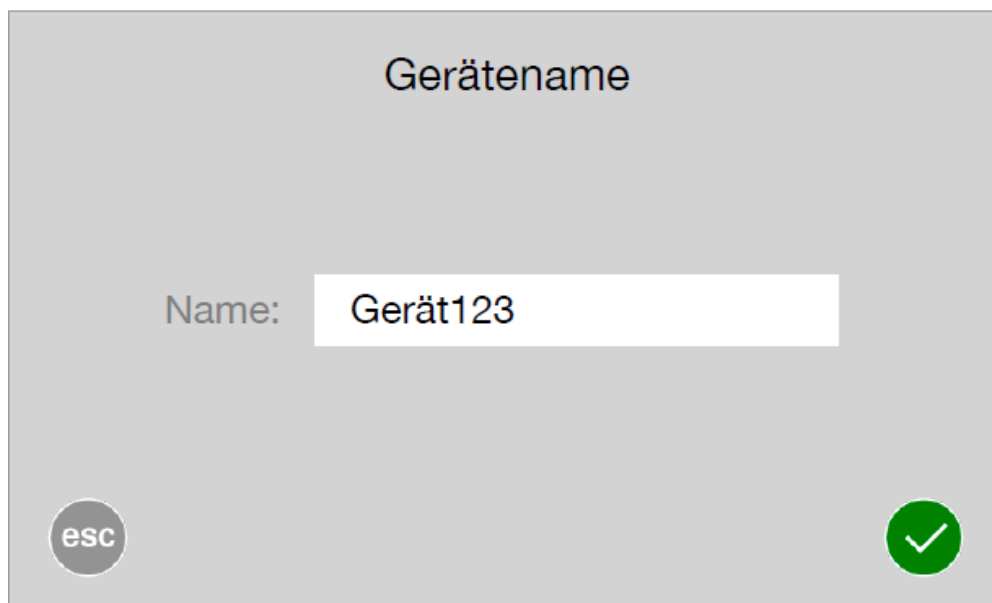
If you have any questions in this regard, please get in contact with an authorised service team.

The adjustable network data, IP addresses and ports should be set by trained personnel.	When activating the Wi-Fi function, a check should be carried out in advance to legitimise the use of this interface.
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Symbol	Function	Note
	Entering the device name (Hostname)	Facilitates subsequent assignment of devices in the network
	Network port settings	Entering and activating / deactivating the socket connection
	Ethernet settings	Entering the IP address, gateway and subnet address

3.9.5.1 Device name



Save changes

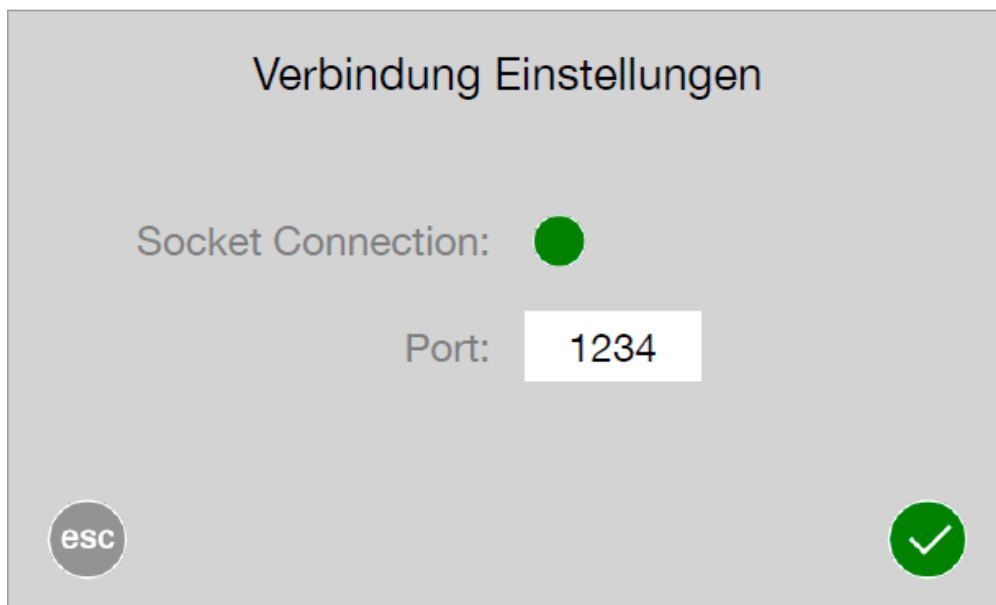


Discard changes and exit menu

The name is entered using the keyboard in alphanumeric form.



3.9.5.2 Connection settings



Save changes



Discard changes and exit menu

The port is entered using the keyboard.



If a port number greater than 0 was entered, the socket connection is active.

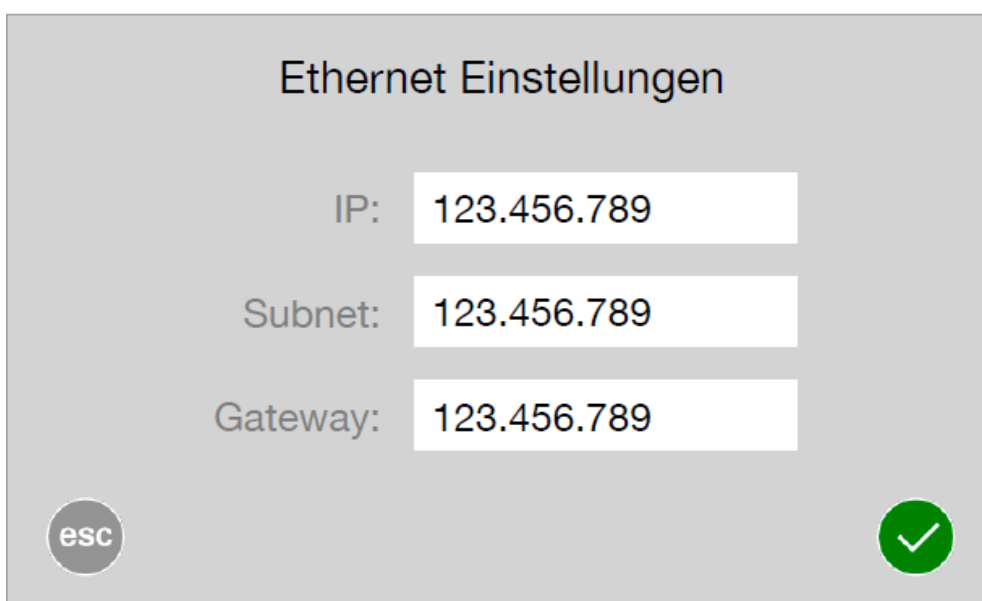


Port setting = 0



Port setting > 0

3.9.5.3 Ethernet settings

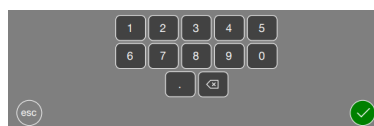


Save changes

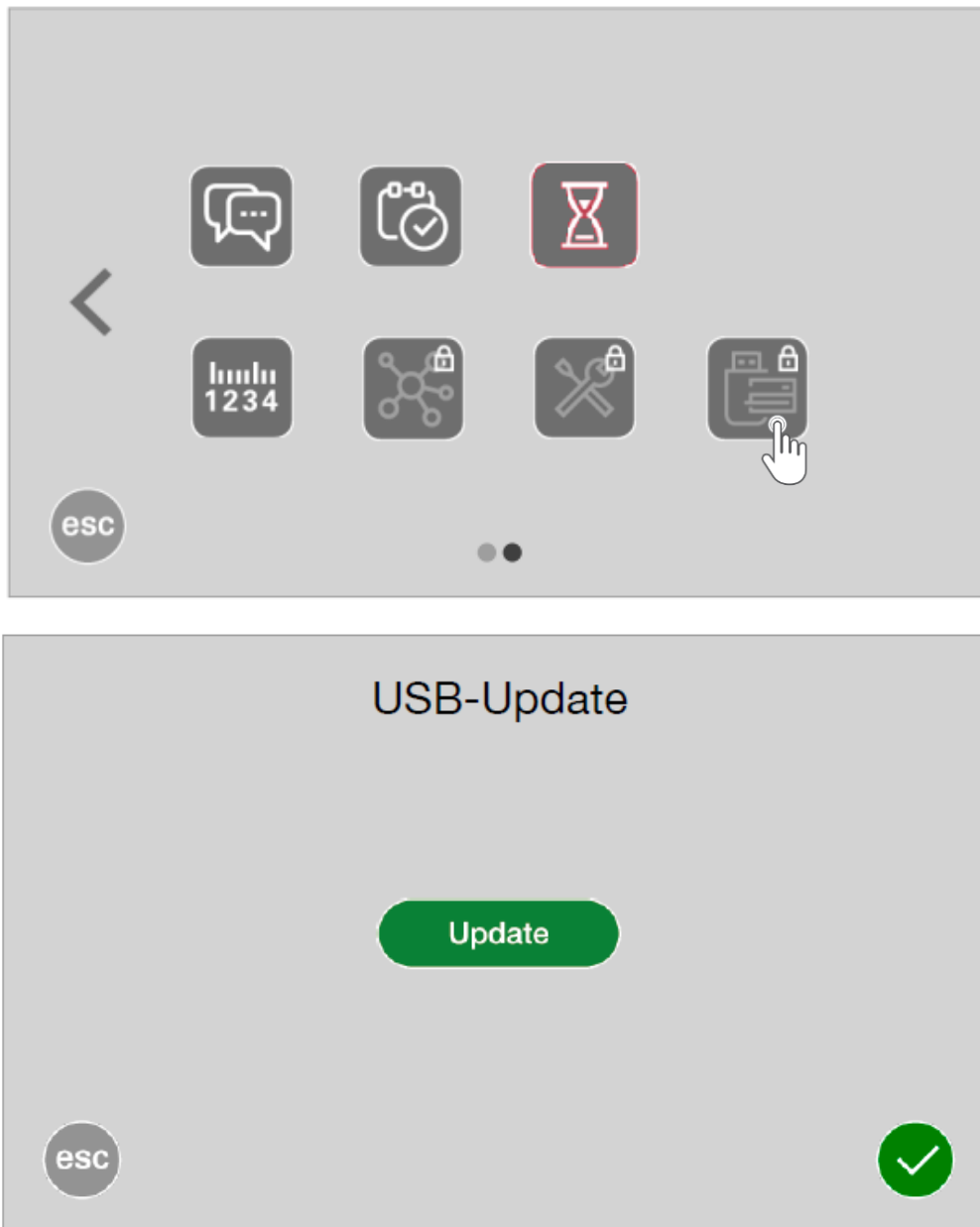







Discard changes and exit menu

The data is entered using the keyboard.



3.9.6 Update



	Save changes	After inserting a USB stick with update data, an update search can be started by pressing the button.	
	Discard changes and exit menu		
			Search for update
			No / no new update
			Start update

4 Troubleshooting and maintenance

4.1 Troubleshooting checklist



The troubleshooting suggestions marked with a * may only be carried out by the manufacturer or an authorised service partner appointed by the manufacturer.

Malfunction	Possible cause	Remedy
The sealing device cannot be switched on. No data on the display	Power supply unit -Power supply unit not plugged in	Check the mains connection and plug the cable into a different socket if necessary
	-Power cable defective	Replace mains cable
	Touch control defective	Replace temperature controller*
The sealing device does not heat up	Set temperature is too low	Increase set temperature
	Temperature limit activated	Switch off the sealing device, allow it to cool down and inform your service partner.
	Temperature sensor	Replace temperature sensor*
	Heating cartridge	Check heating cartridges and replace if necessary*
No transport	Control defective	Replace control*
	Conveyor belt -Damaged -No transport	Replace conveyor belt Check belt tension
	Motor start sensor	Replace light barrier*
	Motor	Replace motor*
	Control defective	Replace control*

Malfunction	Possible cause	Remedy
Uneven material transport or loud running noise	Conveyor belt guide	Replace PTFE strips on the guide Replace rail
	Conveyor belt -Damaged -No transport	Replace conveyor belt Check belt tension
	Motor	Replace motor*
Sealing seam will not hold	Temperature too low	Increase temperature
	Pressure applied too low	Adjust contact pressure of the sealing roller or replace sealing roller*
	Sealing die Distance between the sealing dies too great	Set distance between the sealing dies to 0.5 mm*
Sealing seam distorted	Contact pressure too high	Adjust contact pressure of the sealing roller or replace sealing roller*
Paper side of the packaging is discoloured or side fold melted	Temperature too high	Lower temperature

4.2 Customer service



Your hawo customer service team is available Mon-Fri between 08:00 and 17:00 on the following telephone number:

+49 (0)6261 9770 -0.

You can also send your enquiries to the following e-mail address:

service@hawo.com

5 Maintenance, Calibration, Validation

This section provides general information on maintenance, calibration, and validation and revalidation of the heat sealing equipment to ensure safe and intended use. Where legal or regulatory requirements apply to the operation of the equipment, these shall be complied with.

Responsibility for planning, performing and documenting the measures described lies with the operator.

5.1 Maintenance

Maintenance of the heat sealing equipment serves to ensure safe operation and long-term functional reliability.

The operator is responsible for defining the scope, frequency and extent of maintenance activities.

It is recommended that maintenance activities are carried out by the manufacturer or by a service partner authorised by the manufacturer. This recommendation aims to ensure proper execution and to avoid unintended impacts on equipment performance caused by improper interventions. Improper maintenance or repair activities may impair the safety and functionality of the heat sealing equipment.

Following maintenance activities, applicable legal and safety-related requirements for the product shall be observed. This may include, for example, electrical safety checks or comparable measures, where required for the specific application.

For standard operation of our heat sealing equipment, scheduled maintenance at intervals of 12 months is recommended. This interval takes into account typical operating conditions, frequency of use and environmental factors for standard applications.

For specific projects or special operating conditions (e.g. increased utilisation, particular environmental conditions or specific operational requirements), different maintenance intervals may be appropriate.

Finally, it is recommended that calibration of the heat sealing equipment is performed after completion of maintenance activities to ensure continued operation within the specified process parameters.

5.2 Calibration

Sealing equipment shall be properly installed and calibrated to ensure a reproducible and compliant sealing process.

The definition of calibration intervals for the heat sealing equipment lies with the operator.

When determining appropriate calibration intervals, the following aspects may be taken into consideration:

- intensity of use and number of sealing cycles
- operating hours
- operating and environmental conditions
- results from monitoring activities and operational experience

In addition, applicable standards, guidelines, legal requirements, as well as national or professional recommendations, where relevant, should be considered.

As an example of professional guidance, the DGSV (**German Society for Sterile Supply**) provides relevant documents, which are available free of charge via the DGSV website and may be consulted as supporting guidance.

Responsibility for selecting, applying and implementing appropriate calibration intervals remains with the operator.

5.3 Validation and Revalidation

The heat sealing equipment described herein fulfils the technical requirements for performing process validation in accordance with applicable normative requirements.

The heat sealing equipment described herein monitors the following process variables:

- temperature,
- contact pressure,
- line speed (dwell time).

The heat sealing equipment described herein is equipped with an alarm system that informs the operator in the event of deviations of the process parameters and interrupts the sealing process. These monitoring and safety functions provide the prerequisite for compliant process validation.

Based on this, the sealing process may be validated.

Responsibility for planning, performing and maintaining the validated state lies with the operator.

Requalification or revalidation activities shall be defined on an event- and risk-based approach, for example in the case of:

- changes to the heat sealing equipment or process-relevant components,
- changes to packaging materials,
- significant changes to process parameters or process execution.

International standards do not specify fixed time intervals for revalidation. To support the definition of appropriate approaches, professional guidance documents may be consulted, for example those published by the German Society for Sterile Supply (DGSV), which are available free of charge via the DGSV website.

Responsibility for the scope, frequency and implementation of validation and revalidation activities remains with the operator.

5.4 Spare parts service



Simply order parts:

- Enter device number.
- Enter device type.
- Enter address, fax and order number.
- Mark items required.
- Enter quantity required.
- Sign order.
- Fax order.

Art.: 0617424
SN: 567890
Type: EcoPak 07
Volt:
Watt:

Bitte diese Daten bei Ersatzteilbestellung angeben.
Please include this information when ordering spare parts.
Indiquez ces données à chaque commande de pièces de rechange.
Indique estos datos al realizar el pedido de las piezas de recambio.

hawa
hawa GmbH · Obere Au 2-4 · 7484 Obtingheim / Germany
T +49 (0) 6261 / 9770-0 F +49 (0) 6261 / 9770-69
info@hawa.com www.hawa.com

6 Technical data sheet

Connection data

Mains connection	[V _{AC}]	100 – 240 ~
Supply voltage	[V _{DC}]	24 =
Mains frequency	[Hz]	50 / 60

Mechanical system

Dimensions ¹	Length [mm]	610
¹ Including slot	Width	255
	Height	155
Housing		Powder-coated / stainless steel AISI 304
Weight	[kg]	15.0
Sealing distance to edge	[mm]	0 – 35
Sealing seam width	[mm]	12 +/-0,5
Sealing system		SealPeak (hawaFlex)
Sealing seam length	[mm]	Unlimited
Distance to medical product	[mm]	>30 (in accordance with DIN 58953-7)

Process variables/sealing parameters

Sealing temperature	Max.	[°C]	210
Sealing temperature tolerance		[°C]	± 5
Contact pressure		[N]	100
Contact pressure deactivation tolerance		[%]	± 20
Throughput speed		[m / min]	5 -13
Throughput speed switch-off tolerance		[%]	± 10
Temperature ranges			3
Temperature standard tolerance		[%]	±2

Electronics and communication systems

System		Microprocessor
Interfaces		2 x RS-232 2 x USB-A 1 x RJ45 Wi-Fi
Transmission speed (baud rate)	[Bd]	9600
Serial RS 232 interfaces and Ethernet		
Electrical protection class	(in accordance with DIN EN 61140 / VDE 0140-1)	3
Protection class	(in accordance with DIN EN 60529)	IP 20

Environmental parameters

Ambient temperature	[°C]	+5 to +40
Heat output	[kJ/s]	0.1
Relative humidity	Max. [%]	80 non-condensing
Noise intensity in accordance with the Machinery Directive 2006/42/EC Appendix I 1.7.4.2 u.)	[dB/ A]	<45 +/- 10
Power consumption combined	[W]	67.5 - 90 W ¹
Power consumption in normal operation	[W]	27 - 32 W ²
Max. noise development	[db]	65

¹ Depending on temperature setting; may vary during heat-up phase (280.08 W max.)

² Depending on temperature setting; „normal operation“ assumes 25% operating mode and 75% Standby + mode



7 Declaration of conformity

7.1 CE Declaration of Conformity

 74847 Obrigheim / Germany	Konformitätserklärung – Declaration of Conformity Déclaration "CE" de Conformité Declaración de conformidad de la C.E. Dichiarazione di conformità - Declaração de conformidade	9.694.053C																				
Gültig ab: 28.08.2025 Valid from: 28.08.2025	Seite 1/1 Version 1.01																					
<p>Hiermit erklären wir, daß die Folienschweissmaschinen: Herewith we declare that the Foil sealing unit: Par la présente, nous déclarons que la gamme de Soudeuse de films plastique: Por la presente certificamos que las máquinas embolsadoras modelos: Dichiariamo con la presente che le macchine per saldatura di fogli: Por este meio se declara que as máquinas de selagem de folhas de plástico:</p> <p style="text-align: center;">hd 650 DC-V ECOPAK 07/07S</p> <p>folgenden einschlägigen Bestimmungen und harmonisierten Normen entsprechen: complies with the requirements of the following regulations and harmonised standards: correspondre aux dispositions suivantes et standards harmonise: objeto de esta Declaración cumple con las siguientes disposiciones: Sono conformi alle seguenti disposizioni in materia nonché alle seguenti norme armonizzate: correspondem às seguintes determinações e normas harmonizadas:</p> <table border="0"> <tr> <td>EG - Maschinenrichtlinie Machinery directive Directive "CE" rel. aux machines Directiva de Maquinaria de la CE Direttiva CE sulle macchine nella versione Directiva da UE relativa a maquinaria</td> <td>2006/42/EG</td> <td colspan="2"></td> </tr> <tr> <td>EMV-Richtlinie Directive CEM Direttiva CEM</td> <td>EMC-directive Directiva de CEM Directiva CEM</td> <td>2014/30/EU</td> <td></td> </tr> <tr> <td>WEEE-Richtlinie Directive WEEE Direttiva WEEE</td> <td>WEEE-directive Directiva de WEEE Directiva WEEE</td> <td>2012/19/EU</td> <td></td> </tr> <tr> <td>RoHS-Richtlinie Directive RoHS Direttiva RoHS</td> <td>RoHS-directive Directiva de RoHS Directiva RoHS</td> <td>2015/863/EU</td> <td></td> </tr> <tr> <td>Harmonisierte Normen Standard harmonise Norme armonizzate</td> <td>Harmonized standards Las normas armonizadas Normas harmonizadas</td> <td>EN ISO 12100:2010 EN ISO 13857:2019 EN IEC 63000:2018</td> <td>EN 60204-1:2018 EN IEC 61000-6-1:2019 EN IEC 61000-6-3:2021</td> </tr> </table> <p>Verantwortliche Person für die Technischen Unterlagen siehe unten Responsible person for technical documentation see below La personne responsable pour la documentation technique est mentionnée au-dessous</p> <p style="text-align: center;">  hawa GmbH 74847 Obrigheim/Germany T + 49 (0) 6261 / 9770-0 info@hawa.com Torsten Ehrhardt Prokurist / authorized officer hawa GmbH, Obere Au 2, D-74847 Obrigheim, Germany </p>			EG - Maschinenrichtlinie Machinery directive Directive "CE" rel. aux machines Directiva de Maquinaria de la CE Direttiva CE sulle macchine nella versione Directiva da UE relativa a maquinaria	2006/42/EG			EMV-Richtlinie Directive CEM Direttiva CEM	EMC-directive Directiva de CEM Directiva CEM	2014/30/EU		WEEE-Richtlinie Directive WEEE Direttiva WEEE	WEEE-directive Directiva de WEEE Directiva WEEE	2012/19/EU		RoHS-Richtlinie Directive RoHS Direttiva RoHS	RoHS-directive Directiva de RoHS Directiva RoHS	2015/863/EU		Harmonisierte Normen Standard harmonise Norme armonizzate	Harmonized standards Las normas armonizadas Normas harmonizadas	EN ISO 12100:2010 EN ISO 13857:2019 EN IEC 63000:2018	EN 60204-1:2018 EN IEC 61000-6-1:2019 EN IEC 61000-6-3:2021
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7.2 Declaration of Conformity ISO 11607-2 / KRINKO / BfArM / DIN 58953-7

 74847 Obrigheim / Germany	Konformitätserklärung – Declaration of Conformity Déclaration de Conformité Declaración de conformidad Dichiarazione di conformità - Declaração de conformidade	9.694.053D
Gültig ab: 28.08.2025 Valid from: 28.08.2025		Seite 1/1 Version 1.01
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hawa GmbH Obere Au 2-4 74847 Obrigheim / Germany	T + 49 (0) 6261 / 9770-0 F + 49 (0) 6261 / 62015 info@hawa.com www.hawa.com	Amtsgericht Mannheim; HRB 441011 Geschäftsführer: Christian Wolf Firmensitz: Obrigheim

9.694.053 - Version 2.01

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