

EN TRANSLATION OF THE ORIGINAL INSTALLATION AND OPERATING MANUAL

ENTRAsys+ FD

ENTRAsys+ UP



IMPORTANT INFORMATION:
The first fingerprint swiped over the scanning area is saved as the administrator. Initial operation only by the person who is to be assigned administrator rights!

Space for warranty label



Information on the product:

Serial No.: See the title page of the installation and operating manual (if applicable warranty label).

Year of manufacture: from 06.2018

Information on the Installation and Operating Manual

Version of the installation and operating manual:
ENTRASys-plus-FD-UP_S11215-00001_022019-0-DRE-Rev-A_EN

Warranty

The warranty complies with statutory requirements. The contact person for warranties is the qualified dealer. The warranty is only valid in the country in which the device was purchased. There is no warranty for consumables such as batteries, accumulators and safety products or light bulbs. This also applies for wear parts.

Contact data

If you require after-sales service, spare parts or accessories, please contact your specialist retailer, your installer or contact:

SOMMER Antriebs- und Funktechnik GmbH

Hans-Böckler-Str. 21-27
D-73230 Kirchheim/Teck

www.sommer.eu
info@sommer.eu

Feedback on this Installation and Operating Manual

We have tried to make the Installation and Operating Manual as easy as possible to follow. If you have any suggestions as to how we could improve it or if you think more information is needed, please send your suggestions to us:



+49 (0) 7021 8001 - 403



doku@sommer.eu

Service

If you require service, please contact us on our service hotline (fee required) or see our web site:



+49 (0) 900-1800150

(0.14 euros/minute from land line telephones in Germany, mobile prices may vary)

www.sommer.eu/de/kundendienst.html

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All brands mentioned in these instructions are the property of their respective manufacturer and hereby recognised as such.

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1. About this Installation and Operating Manual

1.1 Storage and circulation of the Installation and Operating Manual

Read this Installation and Operating Manual carefully and completely before installation, commissioning and operation and also before removal. Follow all warnings and safety instructions.

Keep this Installation and Operating Manual accessible at all times at the place of use.

A replacement for the installation and operating manual can be downloaded from **SOMMER Antriebs- und Funktechnik GmbH** at: www.sommer.eu

During the transfer or resale of the product to third parties, the following documents must be passed on to the new operator:

- this installation and operating manual
- documents recording retrofitting and repairs
- proof of regular care, maintenance and testing
- Declaration of Conformity and Handover Report

1.2 Important for translations

This original Installation and Operating Manual was written in German. The other available languages are translations of the German version. You can get the original Installation and Operating Manual by scanning the QR code:



<http://som4.me/orig-entrasys-plus-reva>

For other language versions, see:

www.sommer.eu

1.3 Description of the product type

This product is a radio transmitter unit for the activation of radio receivers with verification of identity and authorisation. It has been constructed according to state-of-the-art technology and recognised technical regulations.

The following models are available:

Housing:

- Flush-mounted
- Surface-mounted

Core module (for doors, posts, panels)

- Fingerprint scanner

1.4 Target groups of the Installation and Operating Manual

The Installation and Operating Manual must be read and observed by everyone assigned with one of the following tasks or using the device:

- Installation
- Initial operation
- Settings
- Usage
- Care and maintenance
- Testing
- Troubleshooting
- Disassembly and disposal

1.5 Explanation of warning symbols and notes

The warnings in this installation and operating manual are structured as follows.



Hazard symbol



Signal word

Type and source of hazard
Consequences of the hazard

► Preventing / avoiding the hazard

The hazard symbol indicates the hazard. The signal word is linked to a hazard symbol. The hazard is classified into three classes depending on its danger level:

DANGER

WARNING

1. About this Installation and Operating Manual

CAUTION

There are three different classifications of hazards.

| | |
|--|---|
|  | ! DANGER Describes an immediate danger that leads to serious injury or death. Describes the potential consequences of the danger to the user or other persons. ▶ Instructions on avoiding or preventing the danger. |
|--|---|

| | |
|--|---|
|  | ! WARNING Describes a potential danger of serious injury or death Describes the potential consequences of the danger to the user or other persons. ▶ Instructions on avoiding or preventing the danger. |
|--|---|

| | |
|--|---|
|  | ! CAUTION Warns of a potentially dangerous situation. Describes the potential consequences of the danger to the user or other persons. ▶ Instructions on avoiding or preventing the danger. |
|--|---|

The following symbols are used for notes and information:

1.6 General safety instructions

Instructions which do not warn of an immediate risk but are important for general safe operation of the product are described in Chapter “Basic safety instructions for operation” on page 7.



NOTE

Describes additional information and useful notes for correct use of the product without endangering persons. Failure to observe this information may lead to property damage or faults in the product or components connected to the product.



INFORMATION

Describes additional information and useful notes for optimum use of the product.



INFORMATION

This symbol indicates that components of the product which have been taken out of service must not be disposed of with household waste, as they contain hazardous substances. The components must be disposed of correctly at an authorised recycling centre. The local and national regulations must be observed.



INFORMATION

This symbol indicates that all old accumulators and batteries must not be disposed of with household waste. Old accumulators and batteries contain hazardous substances. They must be disposed of properly at municipal collection points or in the containers provided by dealers. The local and national regulations must be observed.



The following symbols are used in the figures and text.



Continue reading the installation and operating manual for more information.



Symbol refers to factory settings.

1.7 Special warnings, hazard symbols and mandatory signs

To specify the source of danger more precisely, the following symbols are used together with the above-mentioned hazard symbols and signal words. Follow the instructions to prevent a potential hazard.



! DANGER

Danger due to electric current!
Contact with live parts may result in electric current flowing through the body. Electric shock, burns, or death may result.

▶ Installation, testing and replacement of electrical components must be carried out by a **trained electrician**.

The following mandatory signs inform the user that actions are required. The requirements described must be complied with.

1. About this Installation and Operating Manual



WARNING
Risk of eye injury!
Chips flying when drilling may cause serious injuries to the eyes.
► Wear safety glasses.

1.8 Information regarding the depiction of text

1. Stands for directions for an action
⇒ Stands for the results of the action

Lists are shown as a list of actions:

- List 1
- List 2

Important text items, for example in directions for actions, are emphasised in **bold**.

References to other chapters or sections are in **bold** type and set in "quotation marks."

1.9 Intended use

- The transmitter unit may only be used together with radio receivers from SOMMER Antriebs- und Funktechnik GmbH.
- The transmitter unit is suitable for SOMloq Rollingcode and SOMloq2 radio systems.
- The transmitter unit may only be used for devices and systems in which radio interference in the transmitter or radio receiver will not endanger people, animals or objects, or the risk is reduced by other safety devices.
- Remote control of devices and systems with increased accident risk (e.g. hoists) is prohibited!

The user of the radio system is not protected against interference due to other telecommunications equipment or devices. This includes radio-controlled systems that are licensed to operate in the same frequency range. If significant interference occurs, please contact your appropriate telecommunications office which has radio interference measuring equipment or radio location equipment.

1.10 Improper use

Any use other than that described in Chapter "Intended use" on page 6 constitutes improper use. The user bears the sole responsibility for any risk involved.

The manufacturer's warranty will be voided by:

- damage caused by other use and improper use
- use with defective parts
- unauthorised modifications to the product
- modifications and non-approved programming of the device and its components

The product must not be used in:

- areas with explosion hazard
- very salty air
- aggressive atmosphere, including chlorine

1.11 Declaration of Conformity

You can access the Declaration of Conformity for all radio technology products of SOMMER Antriebs- und Funktechnik GmbH by scanning the QR code below or via the URL shown beneath it.



som4.me/mrl

2. General safety instructions

2.1 Basic safety instructions for operation



DANGER

Danger due to electric current! Contact with live parts may result in electric current flowing through the body. Electric shock, burns, or death may result.

- ▶ Installation, testing and replacement of electrical components must be carried out by a **trained electrician**.
- ▶ Disconnect the mains plug before working on electrical components.
- ▶ Then check that the equipment is disconnected from the power supply and secure it against being switched on again.



DANGER

Incorrect handling Serious or even fatal injury may result if the product is used incorrectly.

- ▶ Systems that pose an accident risk should not be operated by remote control unless the complete range of movement of the system is visible to the user.
- ▶ The local safety regulations valid for the system must be observed. Information is available from electrical utility companies, VDE (Association for Electrical, Electronic & Information Technologies) and professional associations.
- ▶ Do not operate the ENTRAsys in areas with sensitive radio communications or systems (e.g. airplanes, hospitals).
- ▶ All persons set up as users in the ENTRAsys by an administrator must be informed of any hazards involved in the operation of the system and how to avoid them.
- ▶ There must be an alternative method of gaining access in addition to the transmitter unit
- ▶ The ENTRAsys must be connected in such a way that it is protected against unauthorised manipulation



WARNING

Danger of hazardous substances! Improper storage, use or disposal of accumulators and batteries are dangerous for the health of humans and animals.

- ▶ Accumulators and batteries must be stored out of the reach of children and animals.
- ▶ Keep batteries and accumulators away from chemical, mechanical and thermal influences.
- ▶ Do not recharge batteries.
- ▶ Old batteries, old accumulators and individual components of the device must be disposed of correctly and not with household waste.



NOTE

- ▶ Dispose of all components in accordance with local or national regulations to avoid environmental damage.
- ▶ The display is difficult to read in strong sunlight.
- ▶ The reset code is affixed to the core module. It must be removed and kept in a safe place. For further information on the reset code, see the Chapter "Entering the reset code".

2.2 Notes on the finger scanner



NOTE

- ▶ Dispose of all components in accordance with local or national regulations to avoid environmental damage.
- ▶ Finger prints may sometimes not be usable for biological reasons or as a result of environmental influences (frequent exposure to aggressive cleaning agents or abrasive materials). This is not a malfunction of the device. This is not a malfunction of the device!
- ▶ Fingers must always be dry when scanning them.



NOTE

- ▶ The use of unsuitable cleaning agents can cause damage.
- ▶ Clean only with a clean, dry cloth.

3. Description of function and product

3.1 Application examples

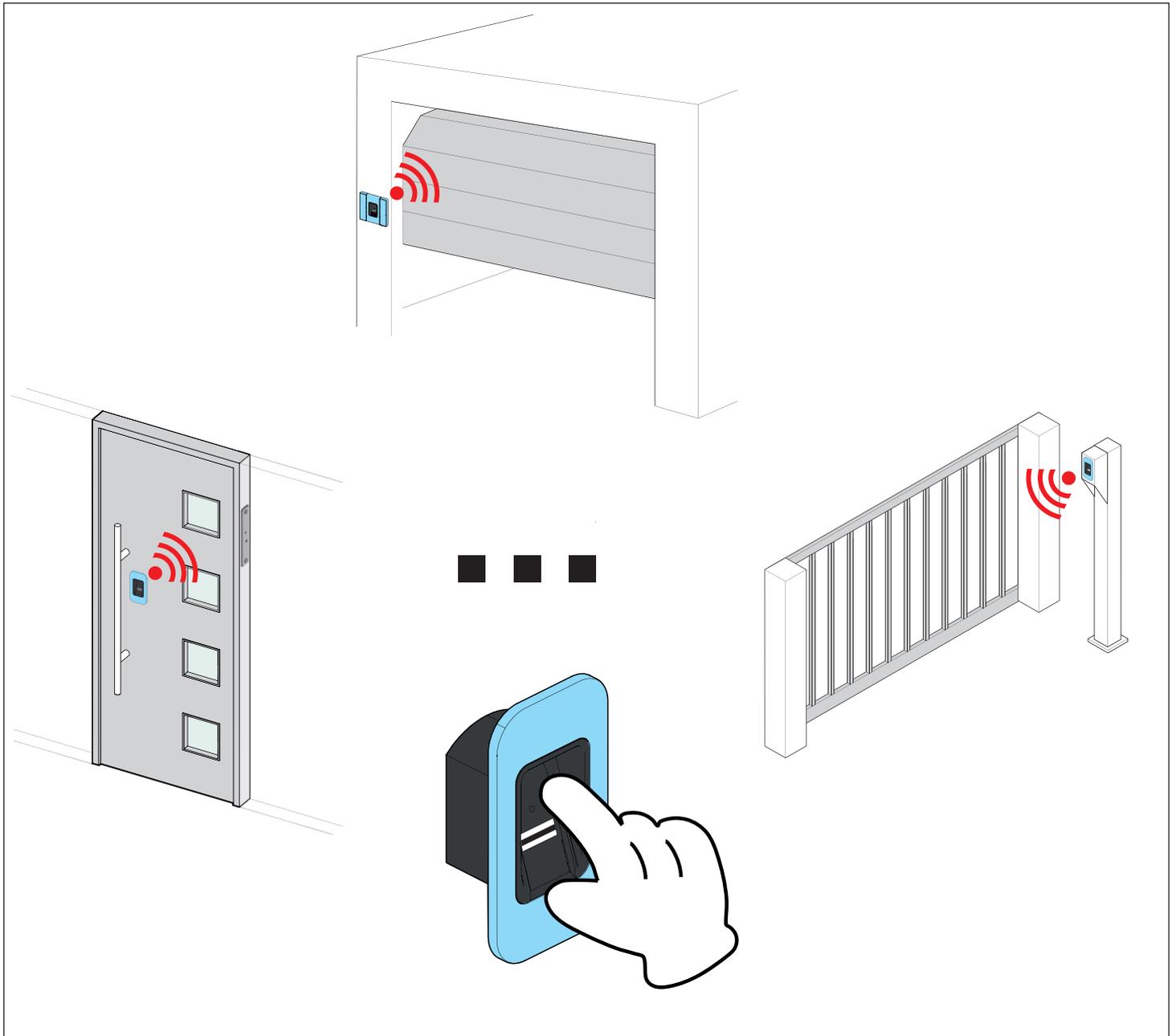


Fig. Application examples

With the transmitter unit, you can send radio commands to an additional radio receiver. Depending on the actuator connected, these commands trigger a specific event (e.g. open a garage door, a house door etc.). A previously programmed fingerprint serves as authentication for transmission of the radio command. This means that only authorised persons can trigger the desired action.

3. Description of function and product

3.2 Product designation



NOTE

The type plate is on the side of the core module. In as-delivered state, it is concealed under the sticker with the reset code.

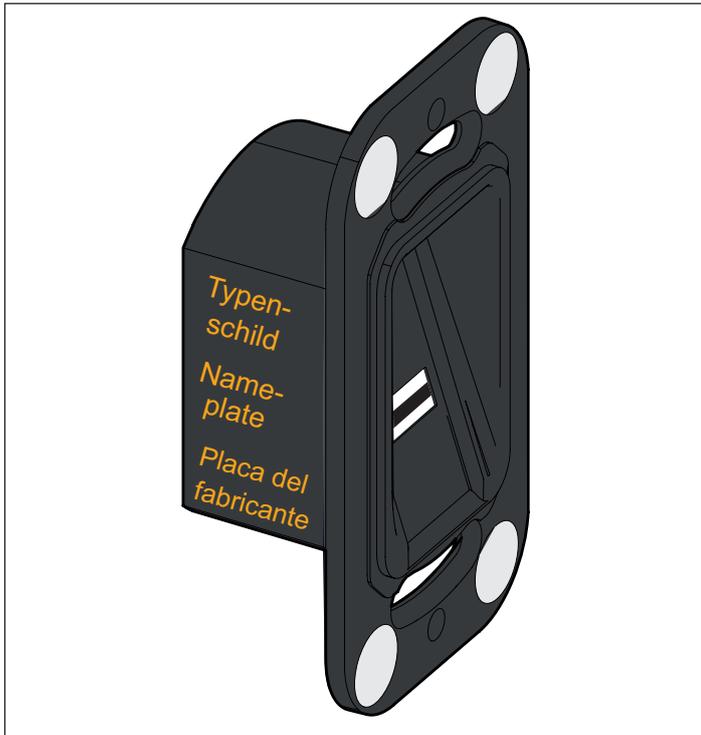


Fig. Product designation

The type plate includes:

- Type designation
- Item Number
- Date of manufacture with calendar week and year
- Serial number

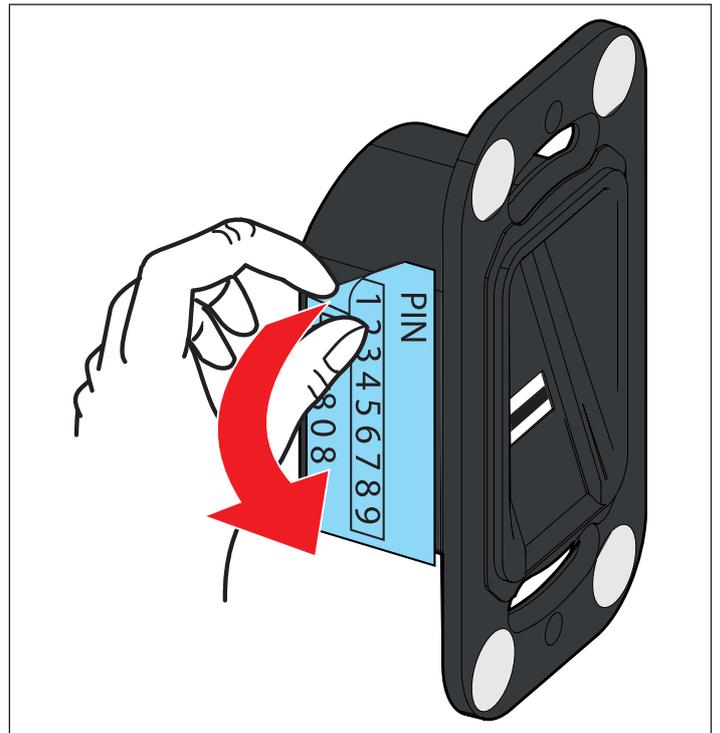
In case of questions or service, please supply the type designation, the date of manufacture and the serial number.

3.3 Reset code



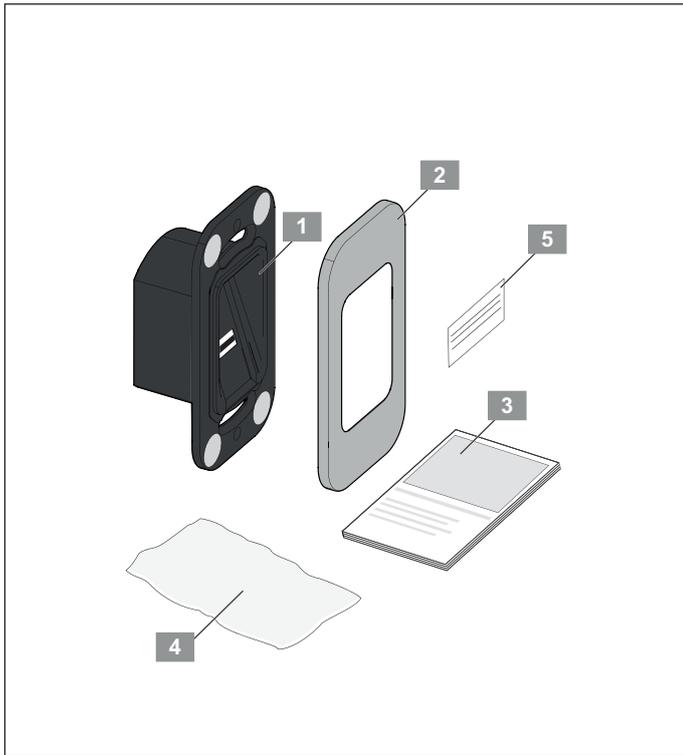
NOTE

The reset code is affixed to the core module. It must be removed and kept in a safe place. For further information on the reset code, see "7.14 Entering the reset code" on page 27



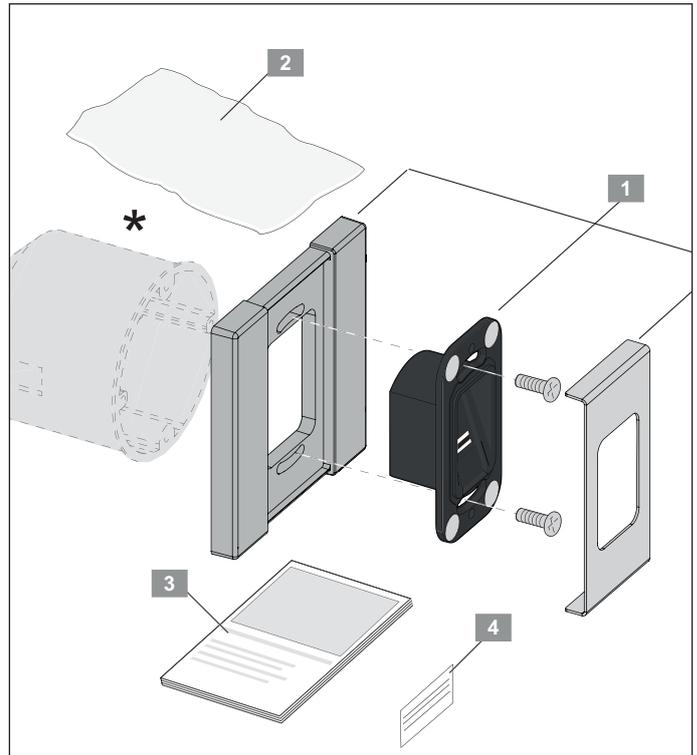
3. Description of function and product

3.4 Scope of delivery



FD

| | |
|---|-------------------------------------|
| 1 | ENTRASys+ core module |
| 2 | Faceplate with stainless-steel trim |
| 3 | Installation and Operating Manual |
| 4 | Installation bag for small parts |
| 5 | Sticker with reset code |



UP

| | |
|---|-----------------------------------|
| 1 | ENTRASys+ |
| 2 | Installation bag for small parts |
| 3 | Installation and Operating Manual |
| 4 | Sticker with reset code |

* Flush-mounted box not included in the scope of delivery

3. Description of function and product

3.5 Dimensions

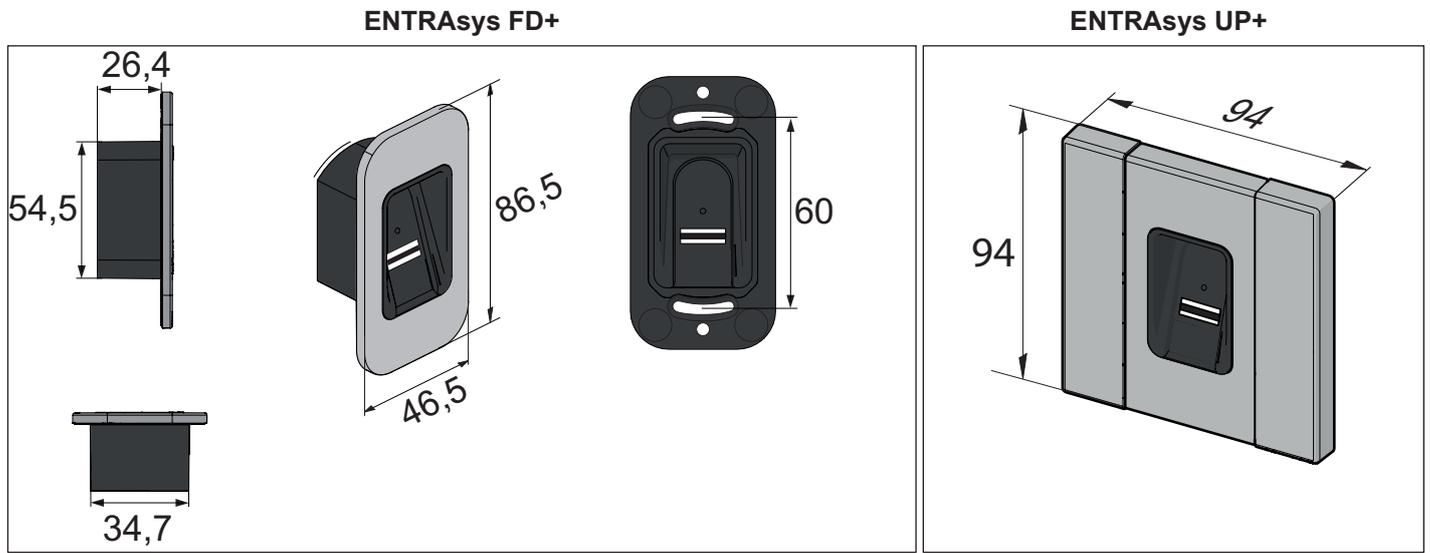


Fig. Dimensions (all dimensions are in mm)

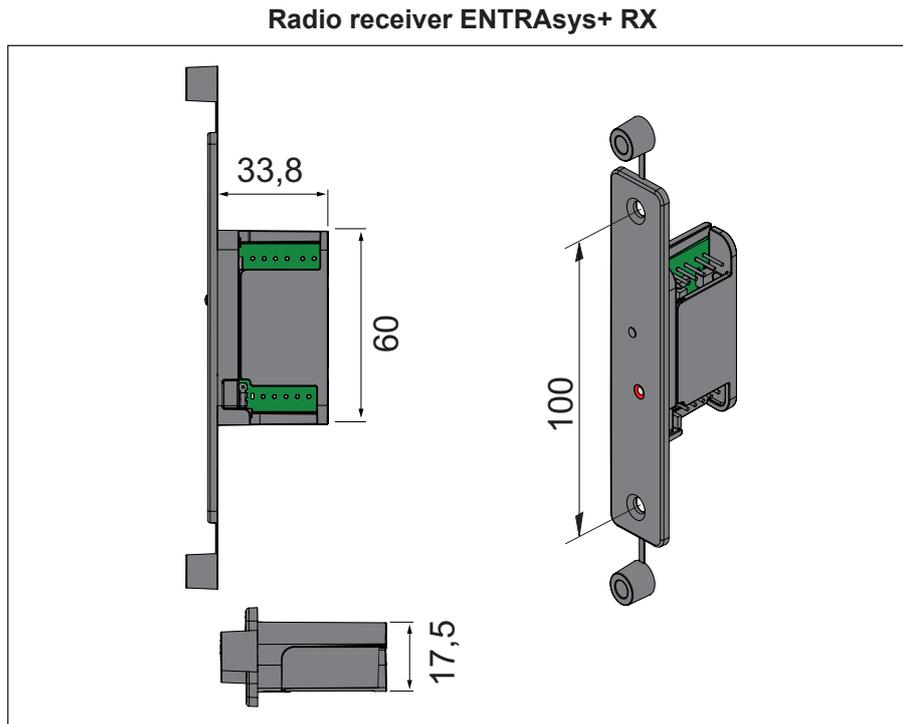


Fig. Dimensions of radio receiver (all dimensions are in mm)

3. Description of function and product

3.6 Technical data

| Core module ENTRAsys+ | FD | UP |
|---------------------------------------|--|----|
| Supply voltage | 8 - 20 V AC / 8 - 24 V DC | |
| Max. current consumption (at 12 V DC) | 33 mA | |
| Operating temperature range | -20 °C ... 65 °C | |
| IP protection class | IP 65 | |
| Radio frequency | 868.8 MHz / 868.95 MHz | |
| Range | approx. 25 m | |
| Memory capacity | 50 to a max. of 80 fingerprints* including a max. of 9 administrators | |
| Encryption of the radio signal | 128 bit AES | |

*The number of characteristics varies from fingerprint to fingerprint. Fingerprints with a large number of characteristics take up more memory space.

| Radio receiver ENTRAsys+ RX | |
|--------------------------------------|--|
| Supply voltage | 8 - 24 V AC / DC |
| Max. current consumption | 14 mA |
| Max. switching capacity | 2.5 A AC / DC |
| Memory locations | 112 |
| Radio frequency | 868.95 MHz |
| Pulse duration | 3 s (can be changed via SOMlink) |
| Door opener contact (potential-free) | Can be connected |
| Door opener pulse (potential-free) | 6 ... 24 V AC / DC, can be connected |
| Radio (core module and receiver) | |
| Encryption | 128 bit AES |
| Number of possible commands | 4 (e.g door, garage, light, yard gate) |
| Radio range | approx. 50 m |

4. Tools and protective equipment

4.1 Required tools



NOTE

- ▶ The tools shown below are only the recommended minimum equipment for the installation of an ENTRAsys+.
- ▶ The actual tools needed may vary depending on the device model and the mounting surface.

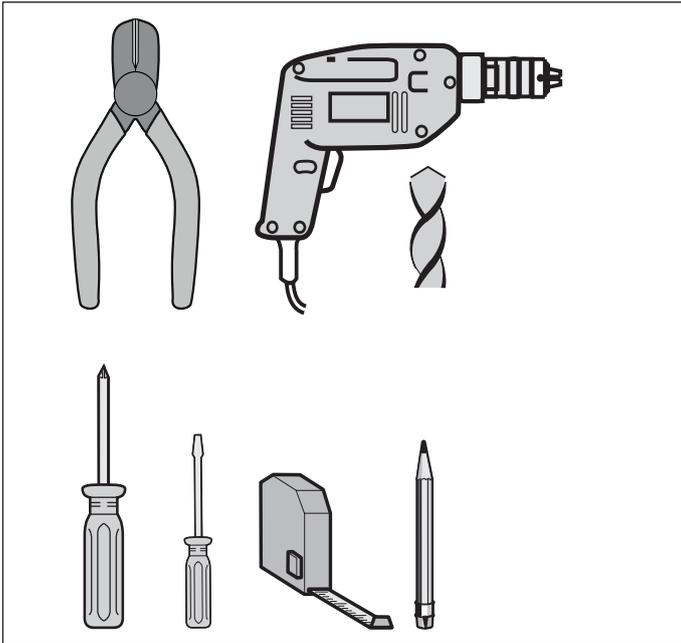


Fig. Recommended tools

4.2 Personal protective equipment

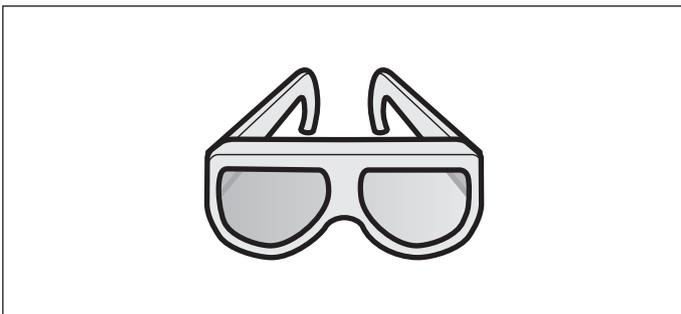


WARNING

Risk of eye injury!

Chips flying when drilling may cause serious injuries to eyes and hands.

- ▶ Wear safety glasses when drilling.



5. Installation

5.1 Installing the core module



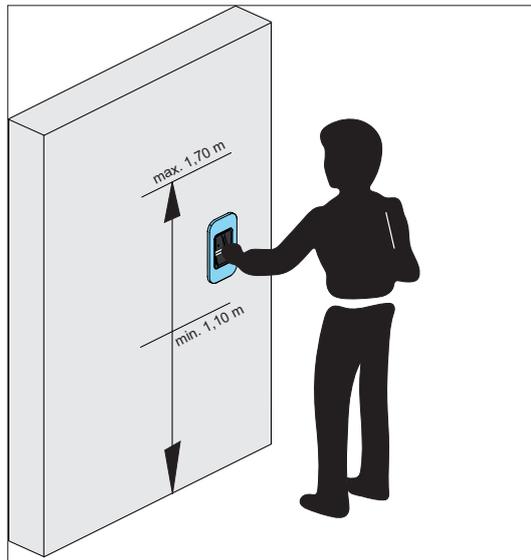
WARNING

Risk of eye injury!
Chips flying when drilling may cause serious injuries to eyes and hands.
► Wear safety glasses when drilling.

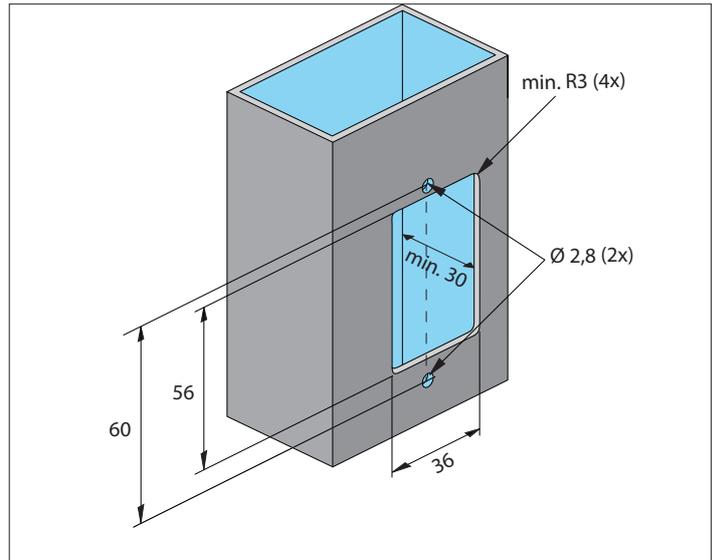


NOTE

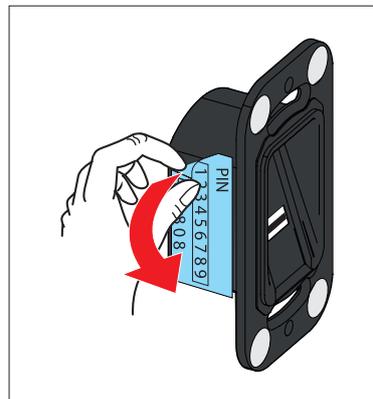
Observe the correct installation height for convenient operation of the ENTRAsys+.
► The fastening screws are self-tapping screws.



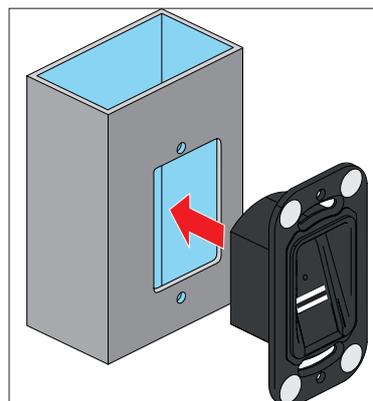
1. Open the package.
Check the entire contents against the scope of delivery, see Chapter "3.4 Scope of delivery" on page 10.



2. Prepare the recess for the core module.
3. Drill the holes for mounting of the core module.

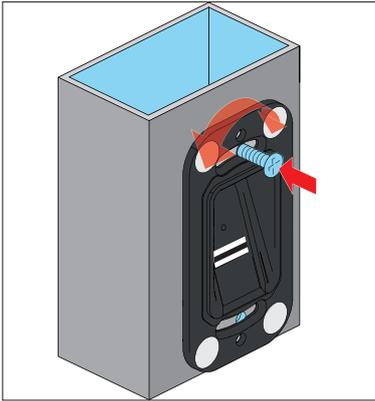


4. Remove the sticker with the reset code and place it in a safe, protected location indoors.

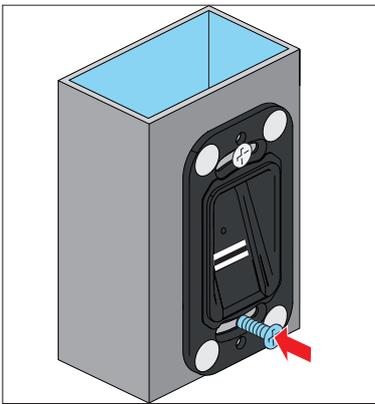


5. Insert the core module.

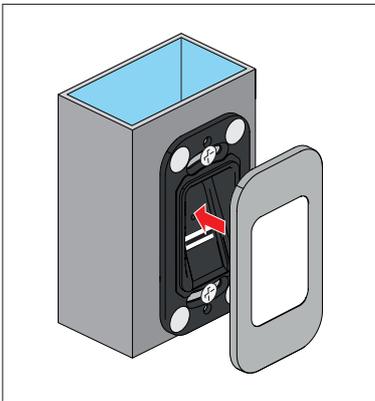
5. Installation



6. Attach the core module at the top.
7. Align the core module vertically.



8. Attach the core module at the bottom.



9. Fit the magnetic faceplate.

5.2 Installing the ENTRAsys+ RX

NOTE

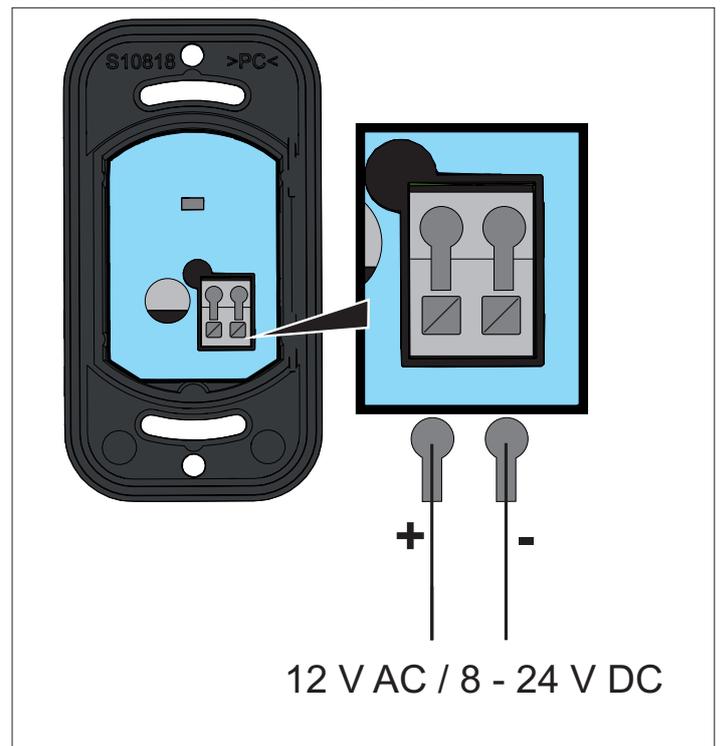
A separate installation and operating manual and a wiring diagram showing the example of connection to a house door are enclosed with the radio receiver ENTRAsys+ RX.

Installation instructions and wiring diagrams are available in the download area:



som4.me/man

5.3 Electrical connection



6. Operation

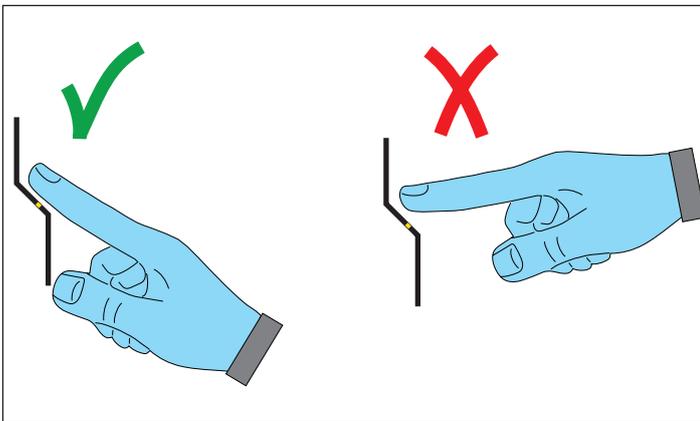


WARNING

Danger of injury if range of movement is obstructed
 Using the ENTRAsys+ without a clear view of the operated door or gate can lead to serious or even fatal injury.

- ▶ Do not use the ENTRAsys+ unless you have a clear view of the range of movement of the door or gate.

6.1 Correct finger position

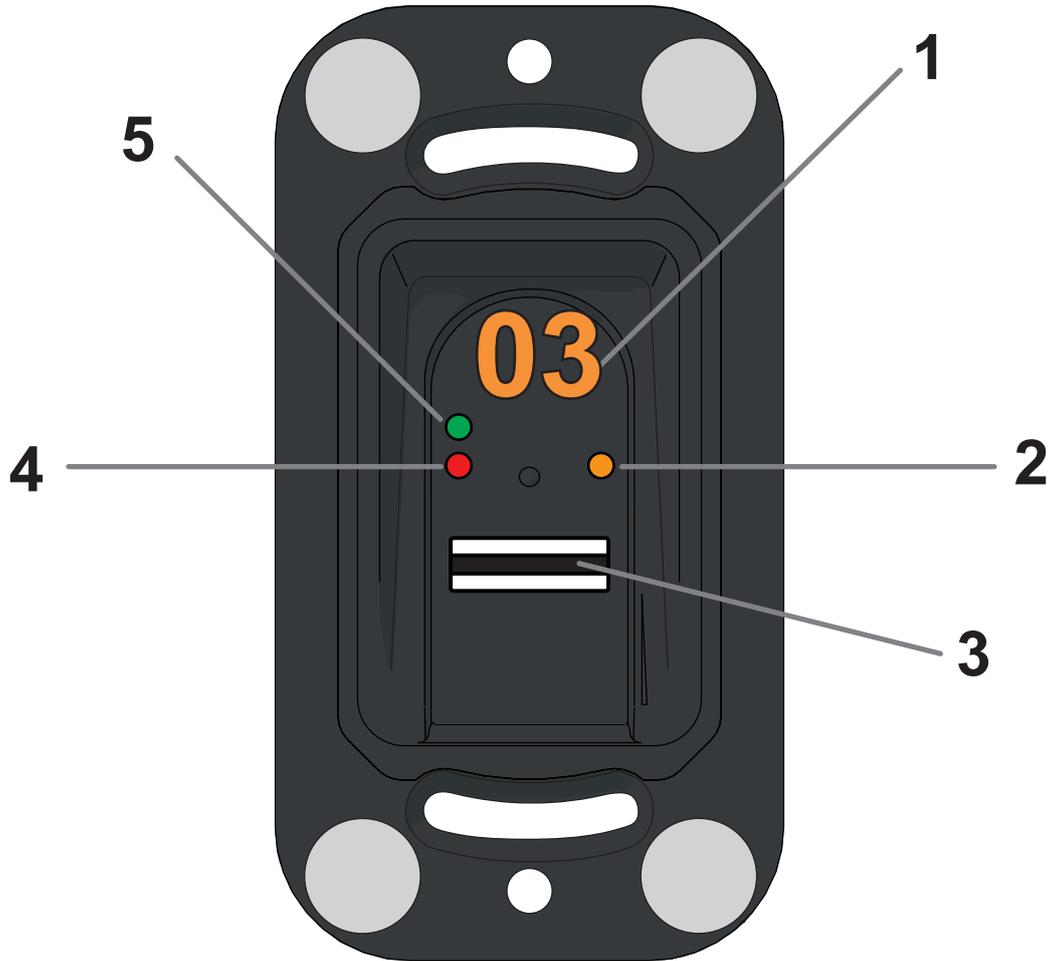


6.2 Meaning of the illustrations in this manual

| Illustration | Description |
|--------------|--|
| | Draw finger across the scanning area (e.g. to programme the fingerprint) |
| | Move finger up or down to navigate within the menu |
| | Press scanning area with finger to select a menu item or carry out an action |
| | Fingerprint already programmed as an administrator |
| | Fingerprint already programmed as a user |
| | Unknown fingerprint, not yet programmed |
| | Random fingerprint (administrator, user or unknown) |

6. Operation

6.3 The control element

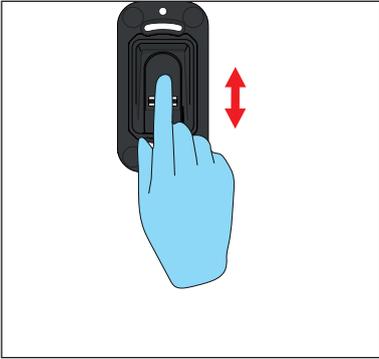


| No. | Description |
|-----|---------------|
| 1 | Display |
| 2 | Yellow LED |
| 3 | Scanning area |
| 4 | Red LED |
| 5 | Green LED |

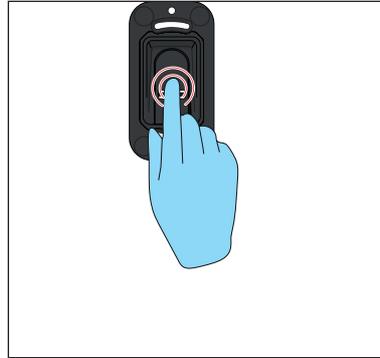
6. Operation

6.4 Finger movements for operation

The ENTRAsys+ is operated by moving your finger in one of two ways:



1. **Swipe vertically to select menu items or values.**
⇒ Vertical swiping movement with your fingertip



2. **Press lightly on the scanning area with your fingertip to confirm your selection.**
⇒ The display will start to blink.
⇒ Selection was successful when the display goes dark. Keep your finger on the scanning area until this happens.

6. Operation

6.5 Menu overview

| Function | Menu level | | |
|----------------|---|--|---|
| | 1 | 2 | 3 |
| Learn User |  |  | |
| Learn Extended |  |  |  |
| Learn Admin |  |  | |
| Delete |  |  | |
| Delete all |  | | |

| Function | Menu level | | |
|--------------|--|--|---|
| | 1 | 2 | 3 |
| Send delayed |  |  | |
| Light |  |  | |
| Heating |  |  | |
| AC |  |  | |
| Exit |  | | |

6. Operation

6.6 Overview of the menu

| Display Level 1 | Meaning | Function | Special features |
|-----------------|----------------|---|--|
| A | Admin | Prompt to programme a first administrator during initial operation. | <ul style="list-style-type: none"> This administrator cannot be deleted using "Delete," but only by entering the reset code. |
| LU | Learn User | Programme a new user to the next free memory location on radio channel 1 | |
| LE | Learn Extended | Assign a specific radio channel / memory location to a new user | |
| LA | Learn Admin | Programme a further administrator (A2 - A9) | |
| d | Delete | Delete specific individual users / administrators | |
| dA | Delete all | Delete entire memory (reset to factory settings) | |
| Sd | Send delayed | Delay transmission of a command until expiry of a period of time selected here | <ul style="list-style-type: none"> Setting range: 1 - 15 s Factory setting: Deactivated (0 s) Progress is displayed via LED countdown |
| Li | Light | Helps you to see the scanning area in the dark | <ul style="list-style-type: none"> Not available on battery-operated models |
| HE | Heating | Ensures operation even at low temperatures | <ul style="list-style-type: none"> Not available on battery-operated models |
| AC | Access Control | Sends a command to a separate receiver in the event of an unauthorised attempt to gain access | <ul style="list-style-type: none"> Can be used, for example, to activate an alarm system |
| E | Exit | Closes the menu | |
| P | Reset code | Enables the menu without the fingerprint of an administrator | <ul style="list-style-type: none"> Cannot be changed |

7. Initial operation

7.1 Important information before first start-up

➔ **NOTE**

- ▶ When the power supply is switched on for the first time, the device is in programming mode for administrator "A" for 90 seconds, i.e. the first fingerprint that is saved is automatically saved as administrator "A1"



If anything other than "A" is shown on the display when the power supply is switched on for the first time, fingerprints are probably already programmed in the device. In this case, the reset code must be entered and the complete memory deleted (see "7.14 Entering the reset code" on page 27)

- ▶ Always position finger flat on the scanning area. The fingertip alone is not sufficient. See "6.1 Correct finger position" on page 16.
- ▶ Only one function can be assigned to each fingerprint. This means that a fingerprint already programmed as an administrator cannot be programmed as a user.
- ▶ Some fingerprints are not suitable for biometric systems. If problems occur repeatedly with a specific fingerprint, another fingerprint should be programmed

7.2 Programming an administrator at the start of initial operation

➔ **NOTE**

We strongly recommend that you create at least two administrators. This allows you to make changes to the device if one of the administrators is not available.

➔ **NOTE**

If an administrator has already been programmed and you wish to add a further administrator, follow the instructions under "Programming an administrator"



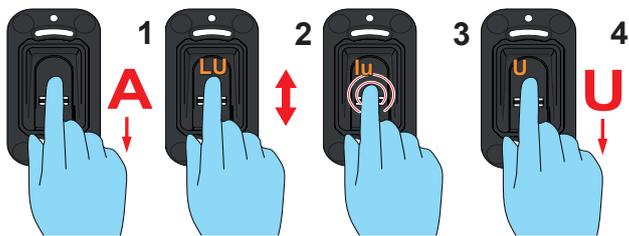
1. Swipe the complete area of the fingerprint that is to be programmed with administrator rights over the scanning area.
 - ⇒ The yellow LED goes out
 - ⇒ The yellow LED lights up again
2. Repeat the process several times.
 - ⇒ "A1" appears on the display
 - ⇒ The green LED lights up
 - ⇒ The administrator has been successfully programmed

7. Initial operation

7.3 Programming a user (Learn User)

NOTE

- ▶ A user can carry out the programmed radio command with his fingerprint. A user cannot make changes at the device, e.g. add new users or administrators etc.
- ▶ This function automatically programs the user at channel 1. To program the fingerprint of a user at another channel, please follow the instructions for "Learn Extended."

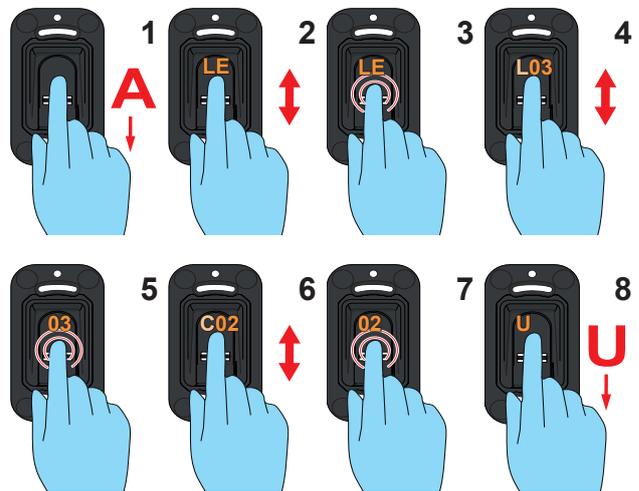


1. Open the menu via an administrator.
 2. Navigate to the menu item "LU."
 3. Select this menu item.
 (Press lightly on the scanning area with your fingertip).
 ⇒ The display "LU" blinks several times
 ⇒ The display "U" appears
 4. Swipe the complete area of the fingerprint that is to be programmed with user rights over the scanning area.
 ⇒ The yellow LED goes out
 ⇒ The yellow LED lights up again
 5. Repeat the process several times (approx. 3 to 10 times).
 ⇒ The display shows "U" and the memory location assigned to the user, e.g. "U3"
 ⇒ The green LED lights up
 ⇒ The user has been successfully programmed
- Programming a user (extended)

7.4 (Learn Extended)

NOTE

- ▶ With this function, a memory location and a channel can be assigned to the user to be programmed.



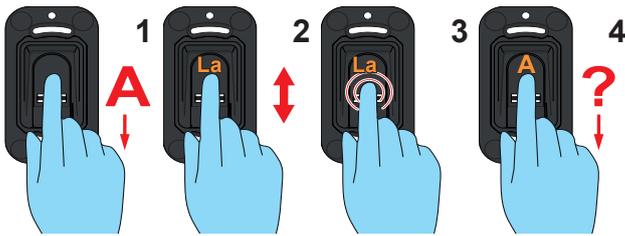
1. Open the menu via an administrator.
2. Navigate to the menu item "LE."
3. Select this menu item.
 ⇒ The display "LE" blinks several times
 ⇒ The display changes and shows "L" and the next free memory location alternately
4. Navigate to the desired memory location.
5. Select this memory location.
 ⇒ The display "C1" blinks several times. This shows that channel 1 is selected
6. Navigate to the desired channel.
7. Select this channel.
 ⇒ The display "U" lights up
8. Swipe the complete area of the fingerprint that is to be programmed with user rights over the scanning area.
 ⇒ The yellow LED goes out
 ⇒ The yellow LED lights up again
9. Repeat the process several times.
 ⇒ The display shows the memory location that has been selected for this user

7. Initial operation

7.5 Programming an administrator (Learn Admin)

NOTE

- ▶ An administrator can access all menu items and is authorised to make changes to them.
- ▶ A fingerprint that has been saved as administrator cannot be used to transmit a radio command. To do this, a separate fingerprint must be programmed as a user.

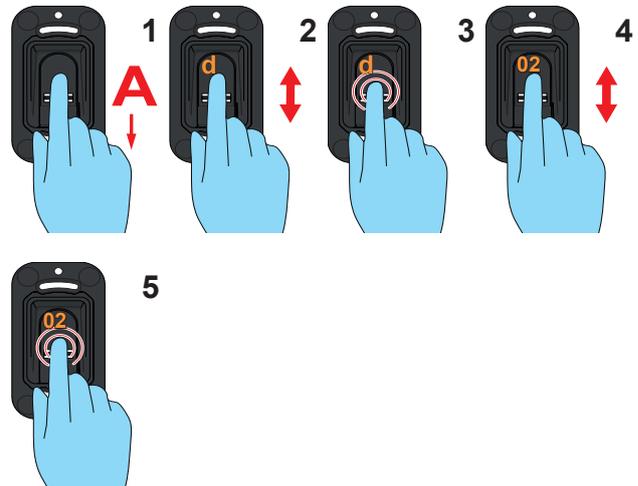


1. Open the menu via an administrator.
2. Navigate to the menu item "LU."
3. Select this menu item.
 - ⇒ The display "LA" blinks several times
 - ⇒ The display "A" appears
4. Swipe the complete area of the fingerprint that is to be programmed with administrator rights over the scanning area.
 - ⇒ The yellow LED goes out
 - ⇒ The yellow LED lights up again
5. Repeat the process several times.
 - ⇒ The display shows "A" and the memory location assigned to the administrator, e.g. "A2"
 - ⇒ The green LED lights up
 - ⇒ The administrator has been successfully programmed

7.6 Deleting a user or administrator (Delete)

NOTE

- ▶ The administrator who has opened the menu cannot be deleted



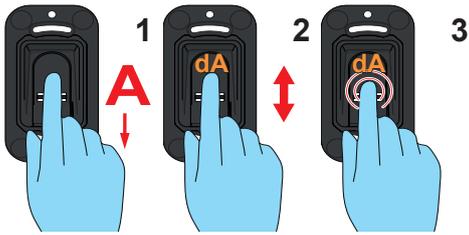
1. Open the menu via an administrator.
2. Navigate to the menu item "d."
3. Select this menu item.
 - ⇒ The display "d" blinks several times
 - ⇒ The display alternates between "d" and the first deletable memory location (e.g. 01 for user 1 or A2 for administrator 2)
4. Navigate to the memory location you wish to delete.
5. Select this memory location.
 - ⇒ The number of the memory location blinks several times and then goes out
 - ⇒ The memory location has been deleted

7. Initial operation

7.7 Deleting the entire device memory (Delete All)

➔ **NOTE**

- ▶ The device is reset to the factory settings.
- ▶ Radio receivers must be deleted separately.
- ▶ The next time the device is switched on, an administrator must be programmed again, see Chapter “7.2 Programming an administrator at the start of initial operation”



1. Open the menu via an administrator.
2. Navigate to the menu item "dA."
3. Select this menu item.
(Your finger must remain on the scanning area during the entire deletion process).
 - ⇒ The display "dA" blinks slowly for several seconds
 - ⇒ The display "dA" blinks quickly for several seconds
 - ⇒ The entire display goes blank

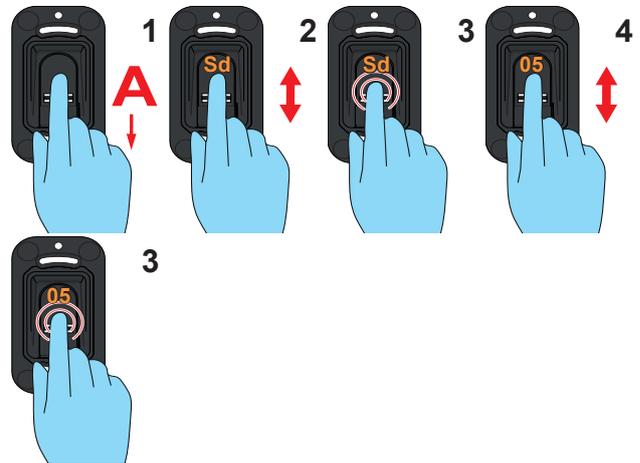
7.8 Delayed transmission (Send delayed)

➔ **NOTE**

- ▶ Transmission of the command is delayed until a set period of time has expired
- ▶ Setting range 0 - 15 s
- ▶ The green LED flashes, indicating the countdown of the time between activation of the scanner and transmission of the command



- ▶ Deactivated



1. Open the menu via an administrator.
2. Navigate to the menu item "Sd."
3. Select this menu item.
 - ⇒ The display "Sd" blinks several times
4. Select the desired time between activation of the scanner and transmission of the command.
5. Confirm the selected time.
 - ⇒ The time display blinks several times and then goes out
 - ⇒ The function is now activated

7. Initial operation

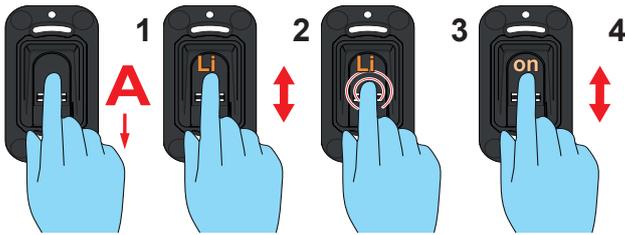
7.9 Lighting (Light)

➔ **NOTE**

- ▶ Illuminates the scanning area
- ▶ This function is not available on battery-operated models.



- ▶ Deactivated



1. Open the menu via an administrator.
2. Navigate to the menu item "Li."
3. Select this menu item.
⇒ The display "Li" blinks several times
4. Navigate to the menu item "on."
5. Select the menu item "on."
⇒ The display blinks several times and then goes out
⇒ The function is now activated

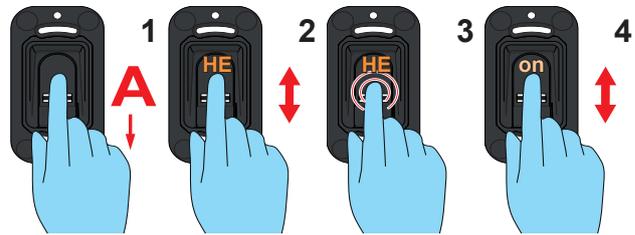
7.10 Heater (Heating)

➔ **NOTE**

- ▶ The heater heats the scanning area in cold weather to prevent problems with fingerprint recognition caused by low temperatures and condensation
- ▶ This function is not available on the battery-operated models.



- ▶ In the factory setting, this function is deactivated



1. Open the menu via an administrator.
2. Navigate to the menu item "HE."
3. Select this menu item.
⇒ The display "HE" blinks several times
4. Navigate to the menu item "on."
5. Select the menu entry "on."
⇒ The display blinks several times and then goes out
⇒ The function is now activated

7. Initial operation

7.11 Access Control (Access Control)

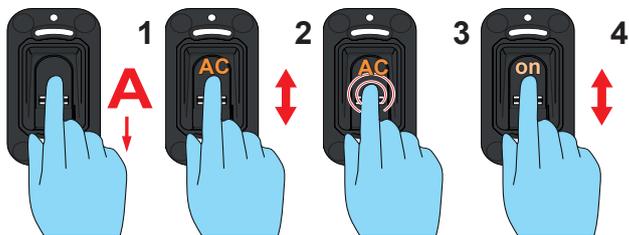
➔ **NOTE**

- ▶ Access Control is a safety function which can send a separate radio command to a receiver, which activates, for example, a camera or an alarm system, if an unknown fingerprint is scanned three times



- ▶ Deactivated

- ▶ During programming of the Access Control radio command, no radio receiver which, for example, opens a gate or a door, may be in programming mode, as the Access Control command will then be programmed to that receiver. This would mean that the gate / the door could be opened with unknown fingerprints.
- ▶ Make sure that only the separate radio receiver intended for the Access Control function is in programming mode when the Access Control command is transmitted.

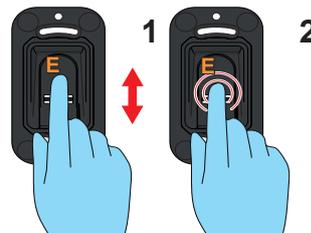


1. Open the menu via an administrator.
2. Navigate to the menu item "AC."
3. Select this menu item.
 - ⇒ The display "AC" blinks several times
4. Navigate to the menu item "on."
5. Select the menu item "on."
 - ⇒ The display blinks several times and then goes out
 - ⇒ The function is now activated
6. Programme the radio command for an unknown fingerprint.
 - ⇒ Use a random fingerprint which has not been programmed
 - ⇒ Do not use the radio receiver responsible for opening the door or gate
 - ⇒ See [«7.13 Programming the device on a radio receiver»](#) on page 27

7.12 Exiting the menu (Exit)

➔ **NOTE**

- ▶ This menu item is used to exit the menu.
- ▶ The menu also closes if no input is made for 20 seconds



1. Navigate to the menu item "E."
2. Select this menu item.
 - ⇒ The display "E" blinks for several seconds
 - ⇒ The entire display goes blank

7. Initial operation

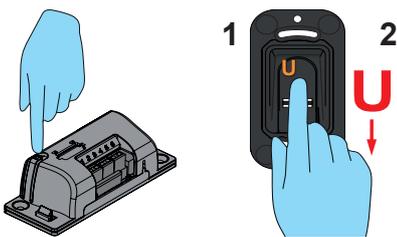
7.13 Programming the device on a radio receiver

NOTE

- ▶ Before the ENTRAsys+ can be programmed on a radio receiver, the desired fingerprint must be programmed as a user.
- ▶ See the instructions for the radio receiver or the operator for the correct procedure for selecting the desired channel on the radio receiver, setting it to programming mode and the correct response of the LED on the radio receiver during the various phases of the programming process.
- ▶ During programming, the receiver must be located within the range of the transmitter.
- ▶ The green LED blinks when the signal has been received.
- ▶ The radio receiver shown here serves as an example. The button is located in a different position on each other radio receiver. See the instructions for the receiver for information on the exact position of the button and on channel selection on multi-channel receivers.



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1. Set receiver to programming mode.
2. Swipe the complete area of the fingerprint of the already programmed user over the scanning area.
⇒ The radio command is programmed on the receiver.

7.14 Entering the reset code

NOTE

- ▶ If an administrator is not available in an emergency, the menu can be enabled by entering the reset code.
- ▶ Entering the reset code is the equivalent of opening the menu via an administrator.
- ▶ On delivery, the reset code is affixed to the device on a sticker over the scanning area. The user must remove this sticker and store it in a safe, protected location indoors.
- ▶ If one of the digits entered was incorrect, the ENTRAsys blinks red several times after input of the ninth digit and then switches off. The process must then be repeated from the beginning.



1. Have the reset code to hand.
(The illustration only serves as an example.)
2. Swipe an unprogrammed finger over the scanning area.
⇒ The red LED blinks, indicating that this fingerprint is unknown
3. Press your fingertip against the scanning area while the red LED is illuminated until the following sequence has been completed:
⇒ The display "P1" blinks for several seconds
⇒ The display "P1" lights up continuously
4. Remove finger from the scanning area.
⇒ The display alternates between "P1" and "0"

7. Initial operation



NOTE

"P1" means that the first digit of the reset code must be entered here.
"0" means that the currently selected digit is "0."

5. Navigate to the first digit of the reset code.
6. Select this digit (finger must remain on the scanning area until Step 7.)
 - ⇒ The selected digit blinks
 - ⇒ The display "P2" lights up continuously
7. Remove finger from the scanning area.
 - ⇒ The display alternates between "P2" and "0"
8. Navigate to the next digit of the reset code.
9. Repeat Steps 6 and 7 until all 9 digits of the reset code have been entered.

8. Troubleshooting

8.1 Safety instructions for troubleshooting



DANGER

Danger if not observed!
If safety instructions are not observed, serious injury or death may result.

- ▶ All safety instructions in this manual must be complied with.

8.2 Troubleshooting

| Fault | Cause | Repair |
|--|---|---|
| No reaction after activation | Wrong polarity | <ul style="list-style-type: none">• Check polarity if connecting to a transformer with DC |
| | | |
| Unreliable finger recognition | Characteristics of finger not sufficient | Programme a different finger |
| | Finger positioned at an incorrect angle | Observe “6.1 Correct finger position” on page 16 |
| Green LED lights up but receiver does not react to command | <ul style="list-style-type: none">• Channel not programmed• Receiver switched off• Receiver outside range | “7.13 Programming the device on a radio receiver” on page 27 |

8. Taking out of operation, storage and disposal

8.3 Taking out of operation

Follow the basic safety instructions listed below.

Persons under the influence of drugs, alcohol, or medications that can influence their ability to react may **not** work on the device.

The device may only be disassembled by a qualified specialist.



DANGER

Danger due to electric current!
Contact with live parts may result in electric current flowing through the body. Electric shock, burns, or death may result.

- ▶ Electrical components may only be removed by a **trained electrician**.
- ▶ Disconnect the mains plug before working on electrical components.
- ▶ Then check that the equipment is disconnected from the power supply and secure it against being switched on again.

8.4 Storage

Store the packaging units as follows:

- in enclosed, dry rooms so that they are protected from moisture
- at a storage temperature from +5 °C to +45 °C



NOTE

Improper storage may damage the device. The device must be stored in closed and dry rooms.

8.5 Disposal of waste

Observe the instructions for disposal of the packaging, components and batteries.



DANGER

Danger of hazardous substances!
Improper storage, use or disposal of batteries and device components pose a risk to the health of humans and animals.



- ▶ Store accumulators and batteries out of the reach of children and animals.
- ▶ Keep batteries and accumulators away from chemical, mechanical and thermal influences.
- ▶ Do not recharge old accumulators and batteries.
- ▶ Old batteries, old accumulators and device components may not be disposed of with household waste. They must be disposed of properly.



NOTE

Dispose of all components in accordance with the locally applicable regulations.

9. Brief instructions

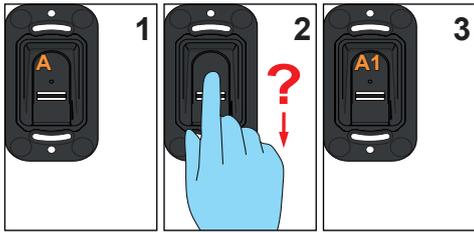
The short instructions do not replace the installation and operating manual.

Read this Installation and Operating Manual carefully and, most importantly, follow all warnings and safety instructions.

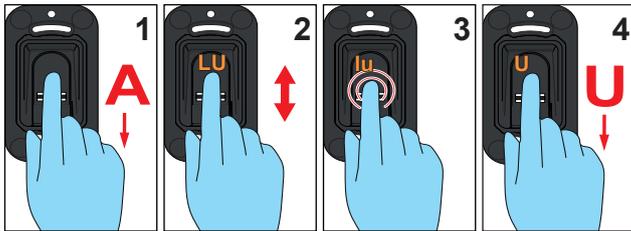
This will ensure that you can install the product safely and optimally.

9. Brief instructions

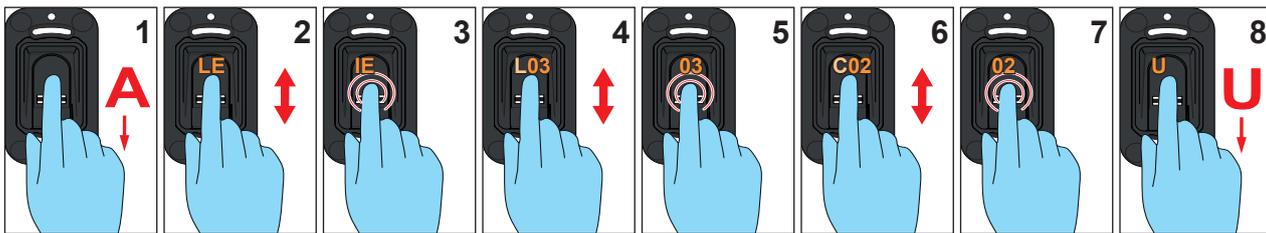
Initial operation



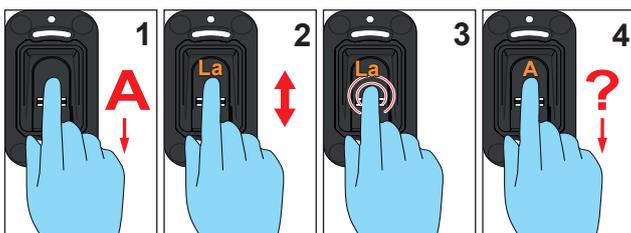
Learn User



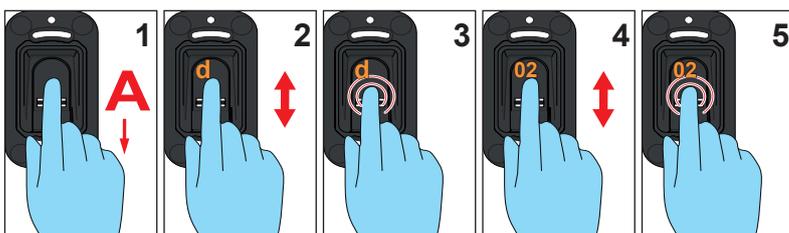
Learn Extended



Learn Admin

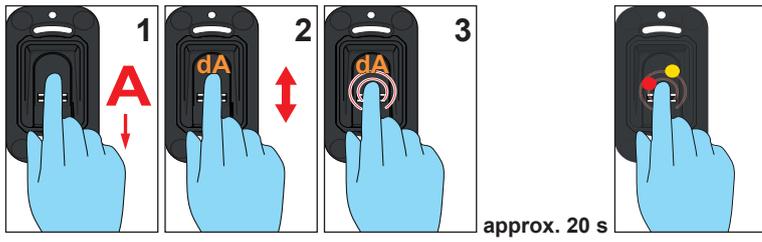


Delete

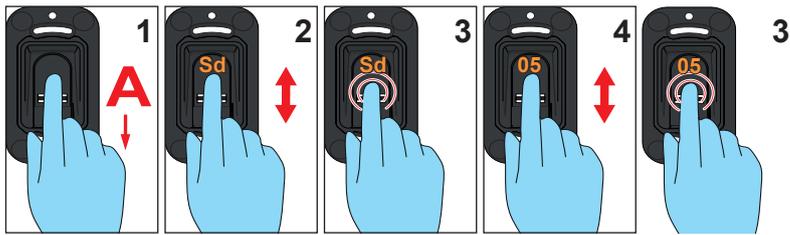


9. Brief instructions

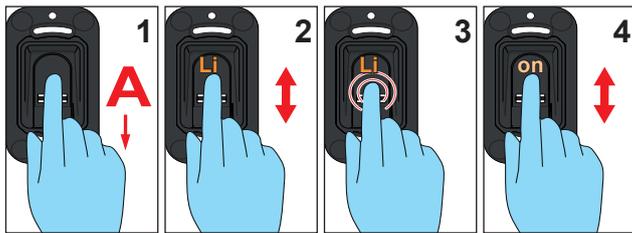
Delete All



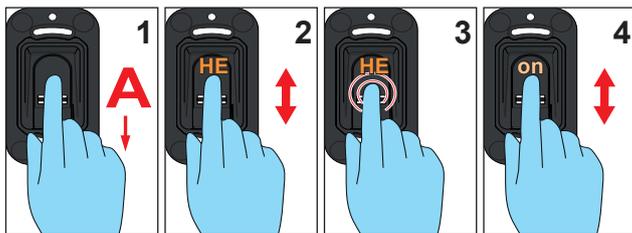
Send delayed



Light

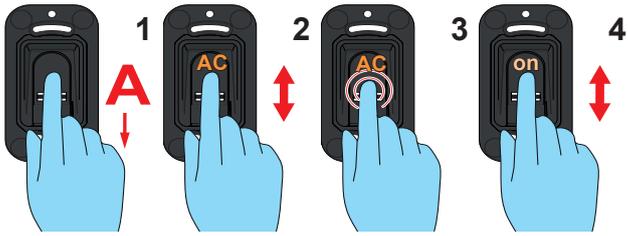


Heating

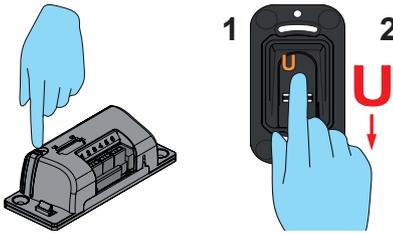


9. Brief instructions

Access Control



Learn radio receiver



10. Admin / user overview

| Name | Authorisation | Channel | Memory location | Finger |
|-------|-----------------------------------|---|-----------------|---|
| _____ | Admin <input type="checkbox"/> | 1 <input type="checkbox"/> 2 <input type="checkbox"/> | _____ |  |
| _____ | User <input type="checkbox"/> | 3 <input type="checkbox"/> 4 <input type="checkbox"/> | _____ |  |
| _____ | Admin <input type="checkbox"/> | 1 <input type="checkbox"/> 2 <input type="checkbox"/> | _____ |  |
| _____ | User <input type="checkbox"/> | 3 <input type="checkbox"/> 4 <input type="checkbox"/> | _____ |  |
| _____ | Admin <input type="checkbox"/> | 1 <input type="checkbox"/> 2 <input type="checkbox"/> | _____ |  |
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| _____ | Admin <input type="checkbox"/> | 1 <input type="checkbox"/> 2 <input type="checkbox"/> | _____ |  |
| _____ | User <input type="checkbox"/> | 3 <input type="checkbox"/> 4 <input type="checkbox"/> | _____ |  |

If this list is not sufficient, further copies can be downloaded from www.sommer.eu/downloads/entrasys_user.pdf.

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