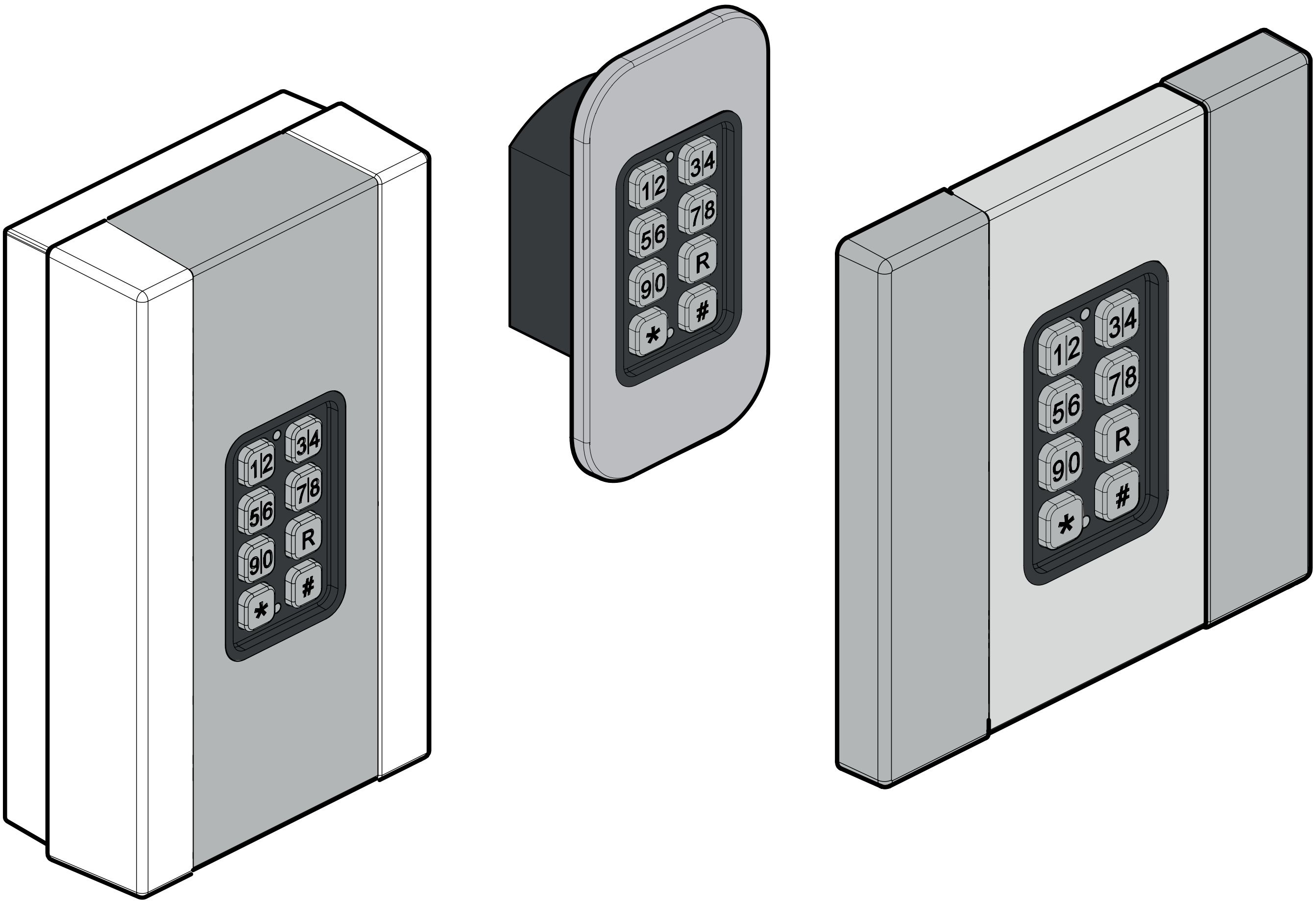
SOMMER



EN TRANSLATION OF THE ORIGINAL INSTALLATION AND OPERATING MANUAL

ENTRAcode+ FD

ENTRAcode+ UP

ENTRAcode+ AP

From Date of Manufacture (DOM) 04/2021

Download the current manual:

Space for
warranty label

SOMloq2

Information on the product:
Serial No.: See the title page of this Installation and Operating Manual (if applicable, warranty sticker).

Year of manufacture: from 04.2021

Information on the Installation and Operating Manual
Version of the installation and operating manual:
ENTRAcode+_S11329-00001_072021-0-DRE-Rev-B_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. 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:

✉ 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

Copyright and proprietary rights

Table of contents

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
- Reset code

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-ENTRAcode-plus-revb

For other language versions, see:

som4.me/man

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:

- UP - flush-mounted
- AP - surface-mounted
- FD - Front Door with metal faceplate (for doors)

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.

⚠ **SIGNAL WORD**

Type and source of hazard

Consequences of the hazard

► Preventing/avoiding the hazard

Hazard symbol

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

CAUTION

There are three different classifications of hazards.

1. About this Installation and Operating Manual

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.

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

A. Stands for directions for an action

► Stands for directions for an action

⇒ Stands for the results of the action

✓ Stands for successful completion of an 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** type.

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

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**.
- De-energise the device 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 ENTRAcode in areas with sensitive radio communications or systems (e.g. airplanes, hospitals).
- An alternative means of access must be provided in addition to the transmitter unit.
- The ENTRAcode 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 reset code is affixed to the core module or the housing. It must be removed and kept in a safe place. For further information on the reset code, see **"7.6 Entering the reset code" on page 23**

2.2 Instructions for cleaning

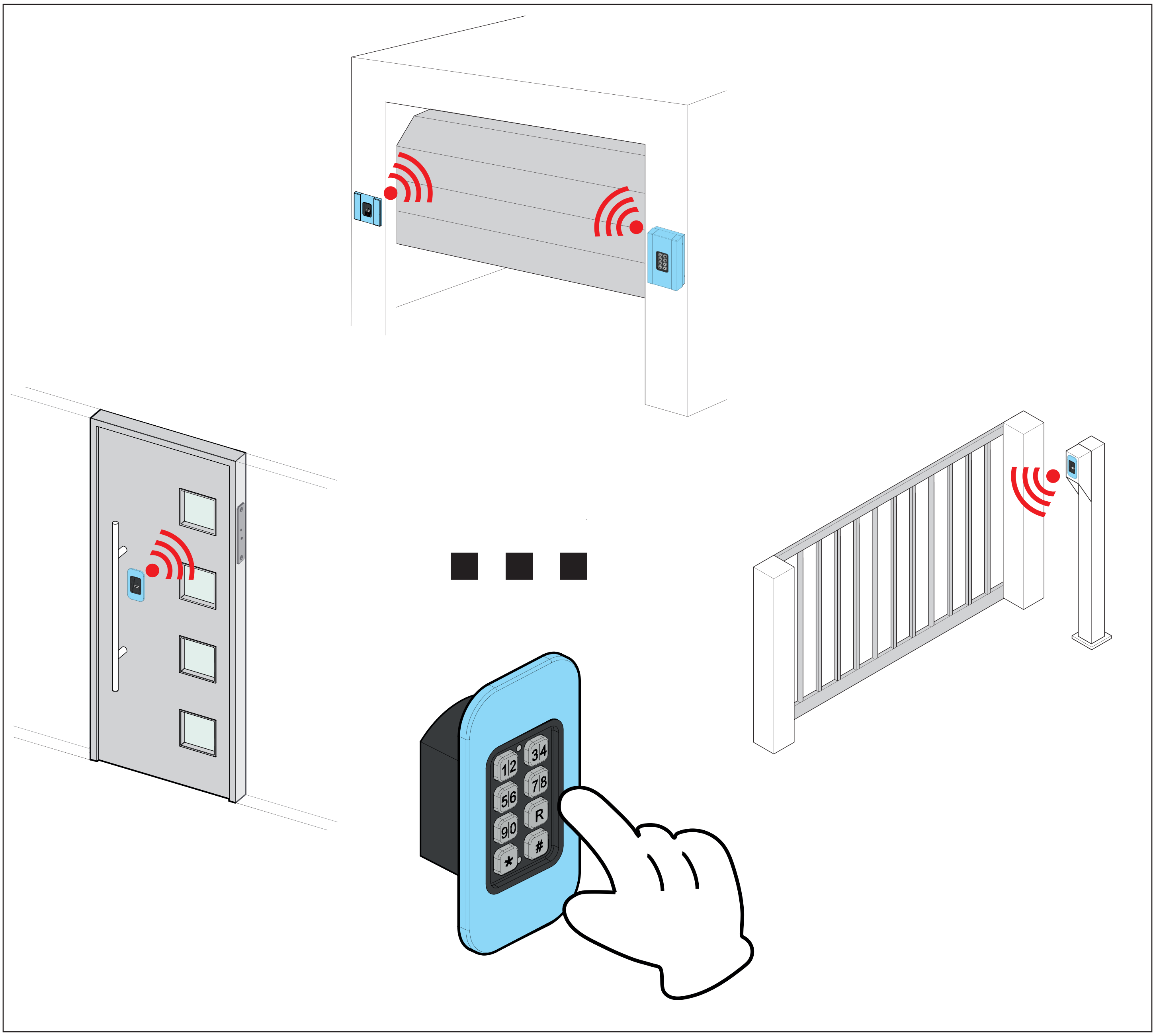
NOTE

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



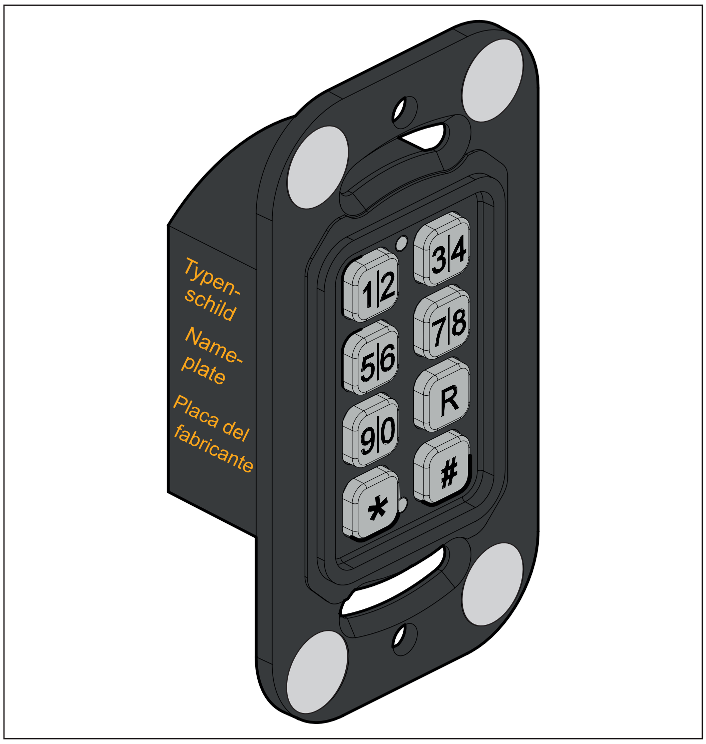
With the transmitter unit, you can send radio commands to an additional radio receiver. Depending on the actuator connected, these commands trigger a specific event (e.g open a garage door, a house door etc.). A previously defined PIN code serves as authentication for transmission of the radio command. 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.



The type plate includes:

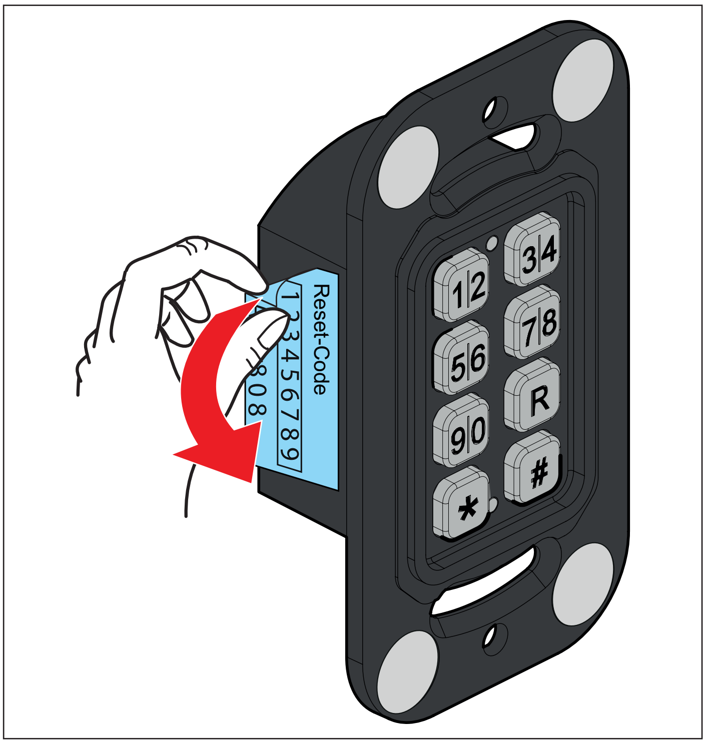
- type designation
- Item Number
- Radio frequency
- date of manufacture with month and year
- serial number

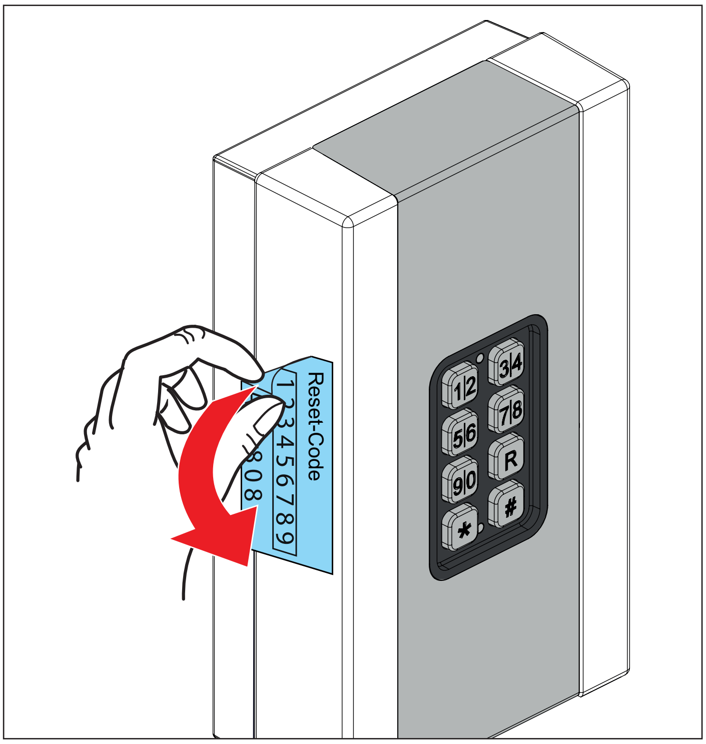
In the case of questions or service, please specify the type designation, the date of manufacture and the serial number.

3.3 Reset code

NOTE

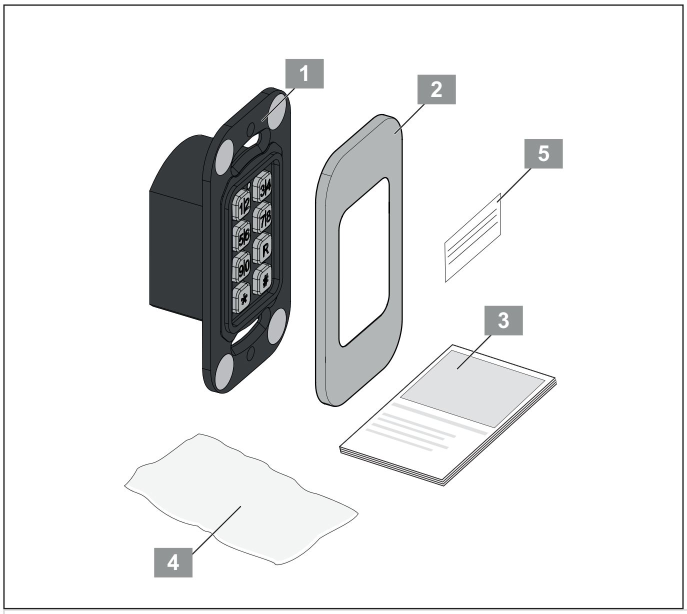
The reset code is affixed to the core module or, depending on the model, on the outside of the housing. It must be removed and kept in a safe place. For further information on the reset code, see "7.6 Entering the reset code" on page 23



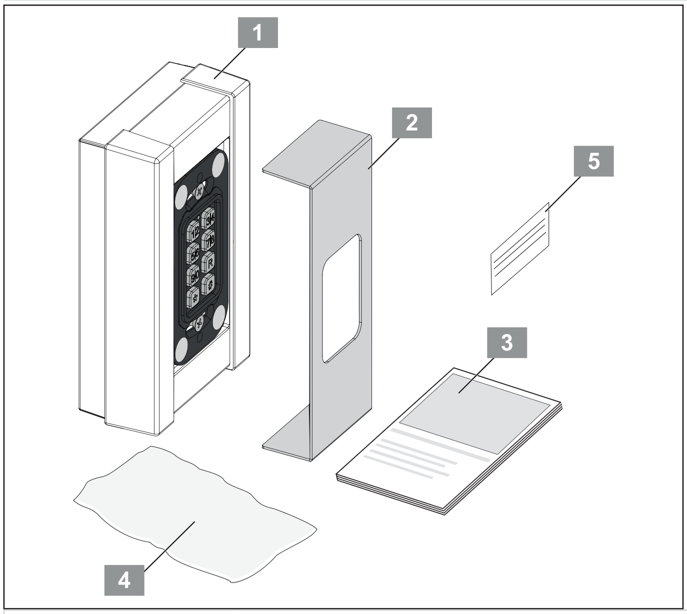


3. Description of function and product

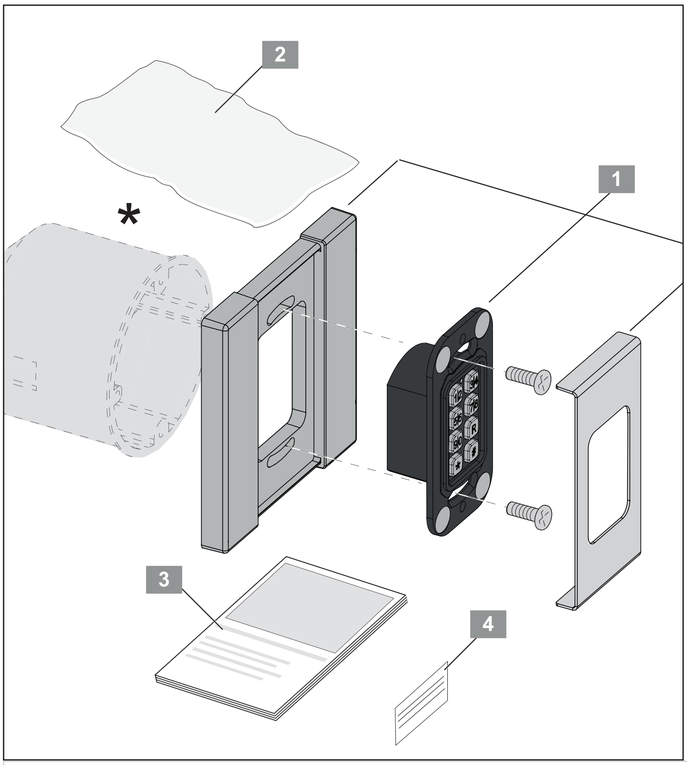
3.4 Scope of delivery



FD	
1	ENTRAcode+ core module
2	Faceplate with stainless-steel trim
3	Installation and Operating Manual
4	Installation bag for small parts
5	Sticker with reset code (2x)



AP	
1	ENTRAcode+ core module in housing
2	Faceplate with stainless-steel trim
3	Installation and Operating Manual
4	Installation bag for small parts
5	Sticker with reset code (2x)



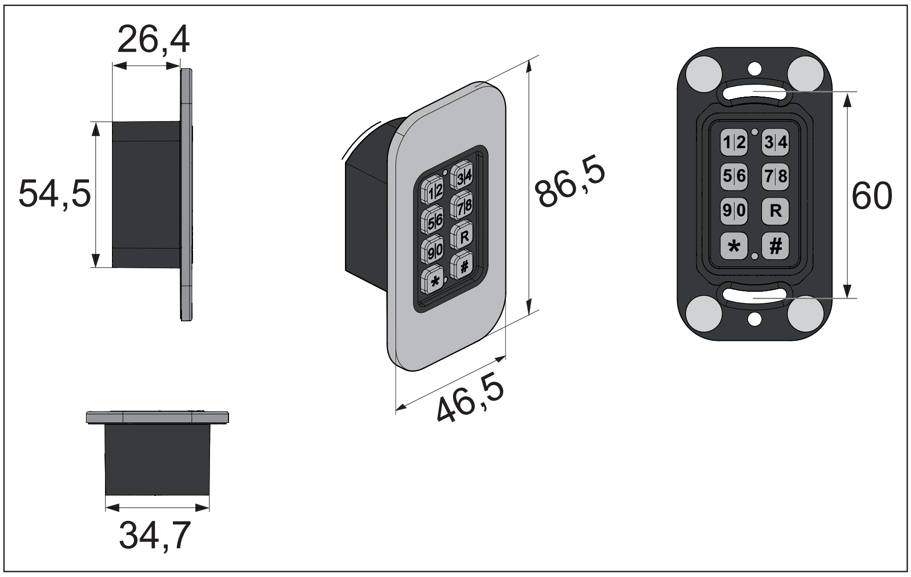
UP	
1	ENTRAcode+ core module with cover and stainless-steel trim
2	Installation bag for small parts
3	Installation and Operating Manual
4	Sticker with reset code (2x)

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

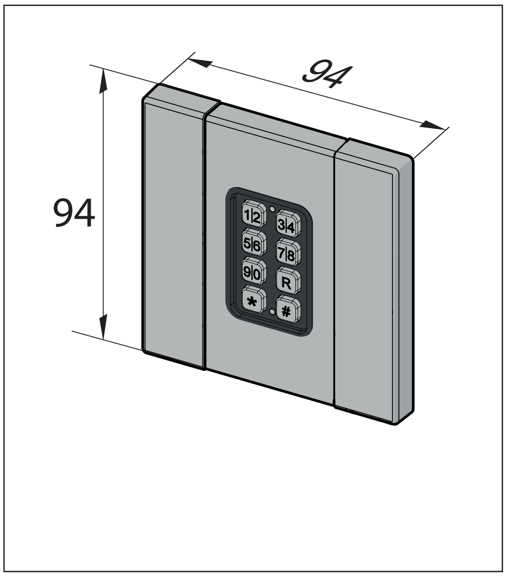
3. Description of function and product

3.5 Dimensions

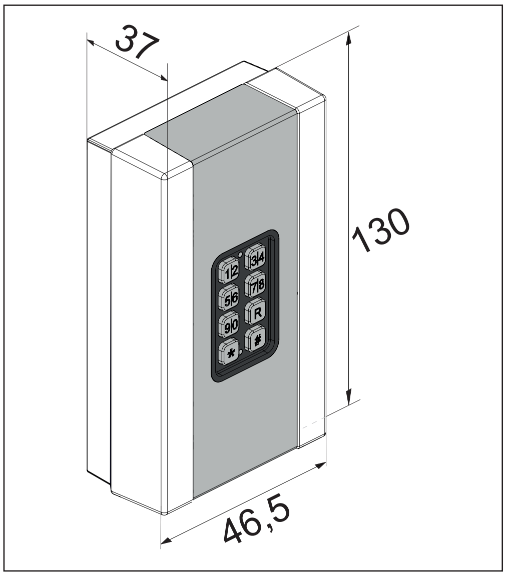
ENTRAcode+ FD



ENTRAcode+ UP

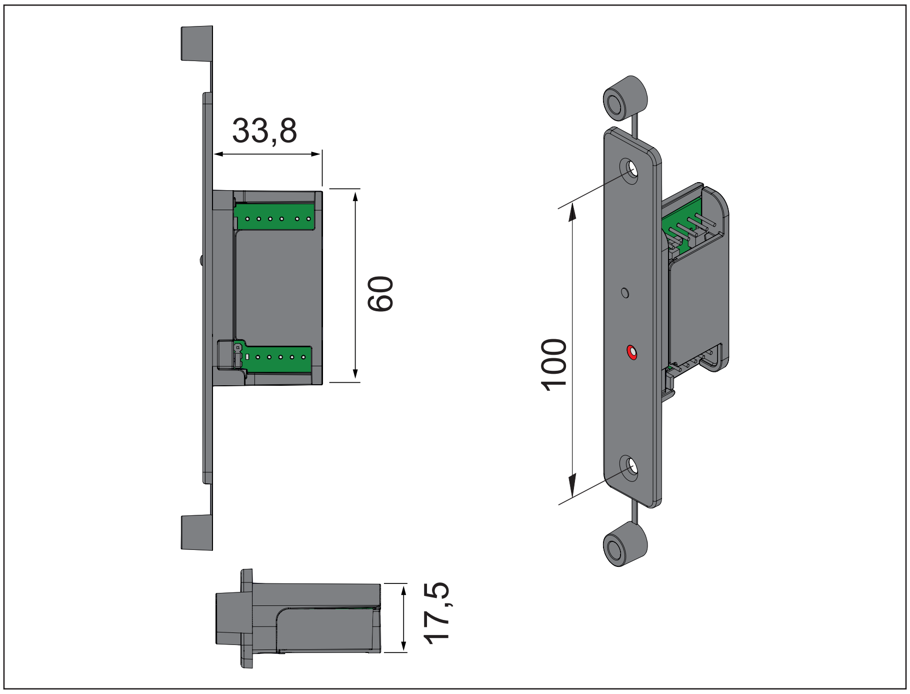


ENTRAcode+ AP



3. Description of function and product

Radio receiver ENTRAcode+ RX



3.6 Technical data

Core module ENTRAcode+	**FD**	**UP**	**AP**
Supply voltage	12 V AC / 8 - 24 V DC		Battery 4 x AA 1.5 V
Max. current consumption (at 12 V DC)	1.0 mA		
Operating temperature range	🌡 - 25 °C ... 🌡 65 °C		🌡 - 20 °C ... 🌡 55 °
IP protection class	IP65		IP54
Radio commands	1 (Standard mode) / max 5 (Extended mode)		

Radio receiver ENTRAcode+ RX	
Supply voltage	12 V AC / 8 - 24 V DC
Max. current consumption	14 mA
Max. switching capacity	2.5 A AC / DC
Memory locations	112
Pulse duration	3 s (factory setting - can be changed via SOMlink) Toggle optional Timer optional (can be set via SOMlink)
IP code (installed)	IP20
Operating temperature range	🌡 - 25 °C ... 🌡 65 °C
Door opener contact (potential-free)	connectible
Door opening pulse (non-floating)	6 ... 24 V AC / DC connectible

Radio (core module and receiver)	
Radio frequency	868.95 MHz (868.3 MHz, 922.5 MHz)*
Encryption	128 bit AES
Number of possible commands	ENTRAcode+ 1-5 commands Receiver, 1-channel
Radio range	approx. 50 m

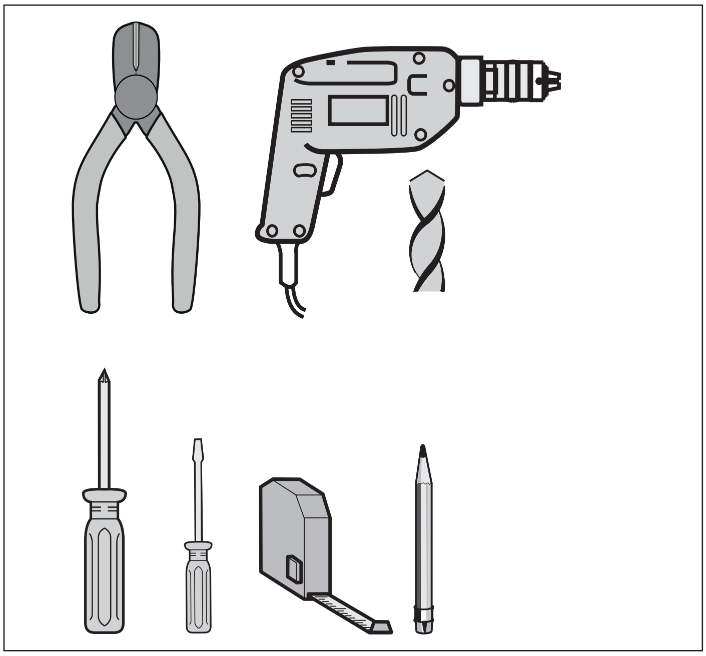
* Various radio frequencies can be supplied, depending on the country of destination

4. Tools and protective equipment

4.1 Required tools

NOTE

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



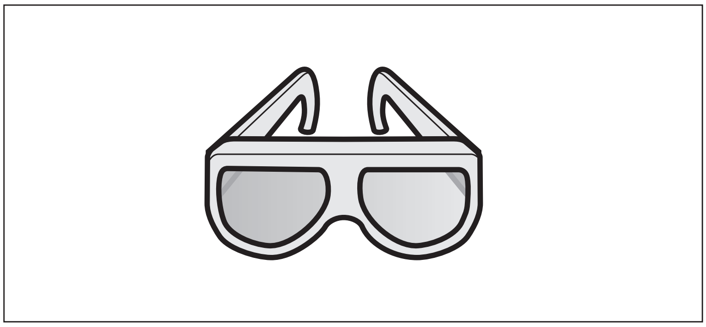
4.2 Personal protective equipment

⚠ 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!

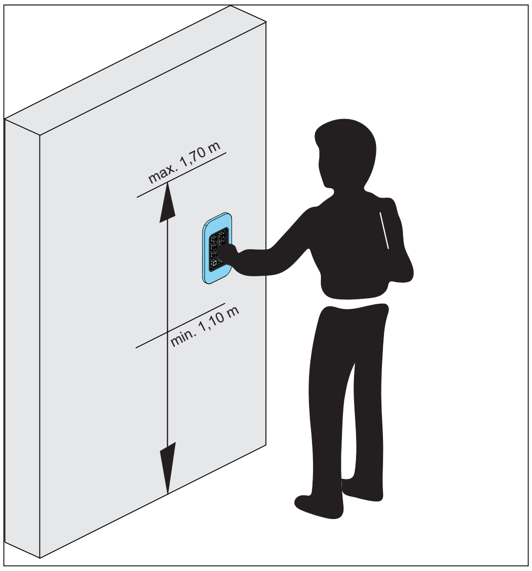
Chips flying when drilling may cause serious injuries to eyes and hands.

► Wear safety glasses when drilling.

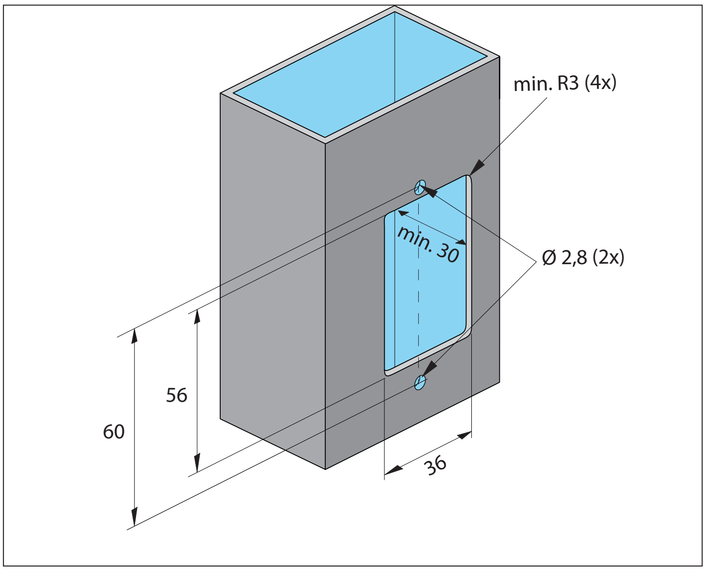
NOTE

► Observe the correct installation height for convenient operation of the ENTRAcode+.

► Normally, there are 2 reset code stickers affixed to the core module. These must be removed and kept in a safe place (installation instructions, door rebate...).

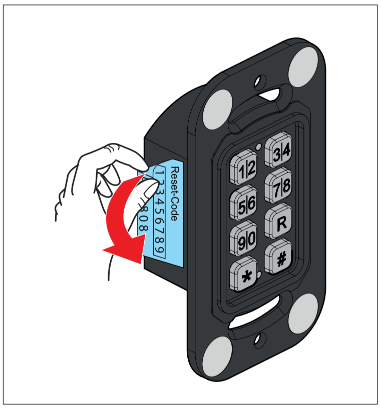


A. Open the package.
Check the entire contents against the scope of delivery, see Chapter
"3.4 Scope of delivery" on page 10".

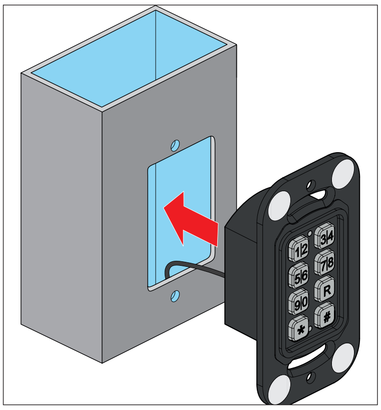


B. Prepare the recess for the core module.

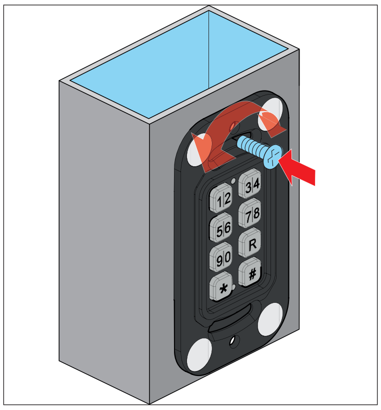
C. Drill the holes for mounting.



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

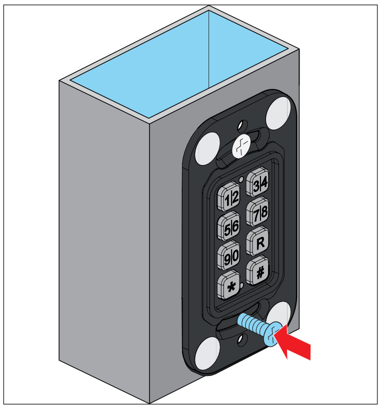


E. Insert the core module.

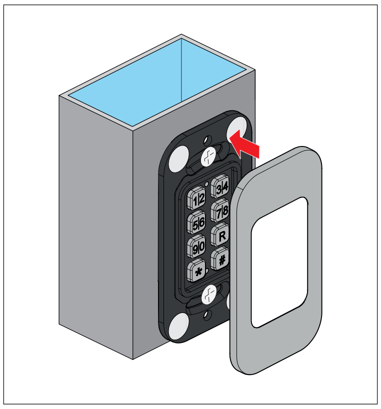


F. Attach the core module at the top.

G. Align the core module vertically.

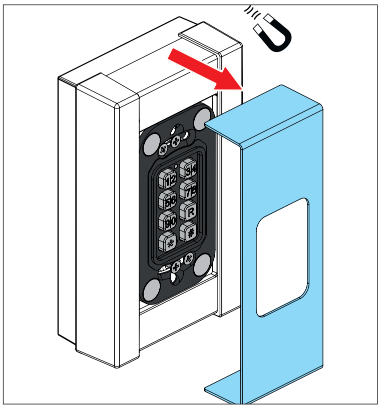


H. Attach the core module at the bottom.

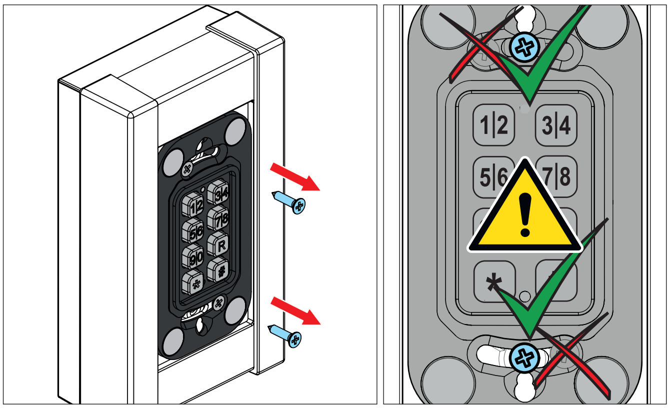


I. Fit the magnetic faceplate.

5.2 ENTRAcode+ AP



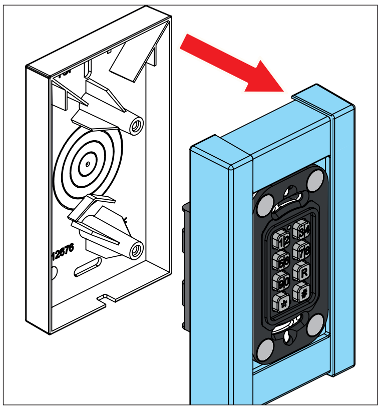
A. Remove the magnetic faceplate



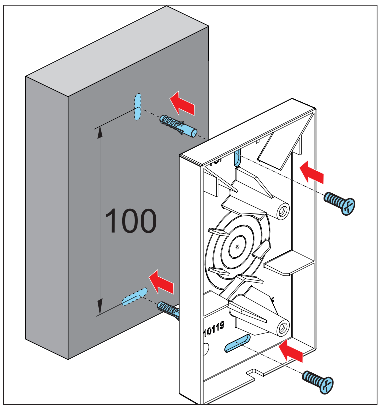
B. Unscrew the two middle screws.

NOTE

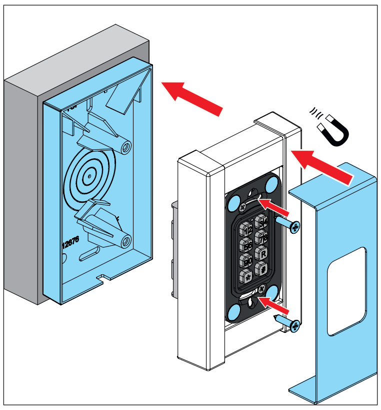
The outer screws hold the core module in position in the housing and must not be removed.



C. Lift off the upper housing section including the core module. Pay attention to the cables (do not disconnect the core module from the batteries).



D. Drill the holes and attach the bottom section of the housing with suitable mounting material.

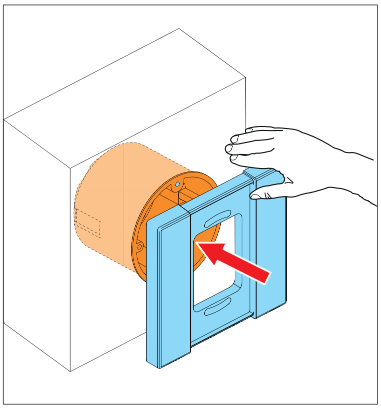


E. Assemble in reverse order.

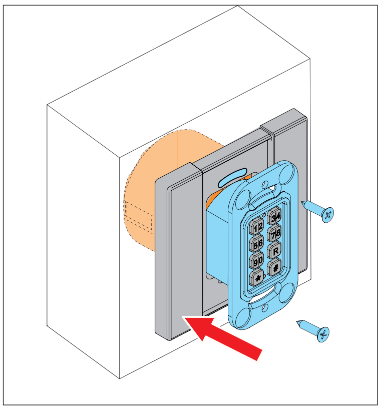
5.3 Installing the ENTRAcode+ UP

NOTE

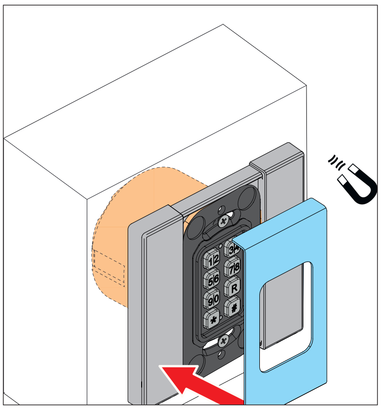
The following description assumes that a flush-mounted box is already installed.



A. Position the housing frame flush on the flush-mounted box and hold it in position or fasten it provisionally.



B. Insert the core module and attach it with the screws provided.



C. Fit the magnetic faceplate.

5.4 Installing the ENTRAcode+ RX

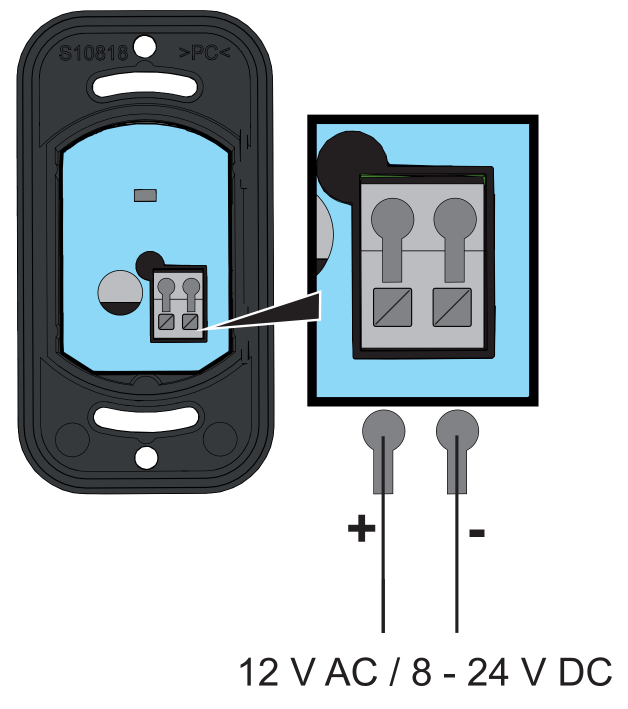
NOTE

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 ENTRAcode+ RX.

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

som4.me/man

5.5 Electrical connection



6. Operating mode

6.1 Explanation of the operating modes

NOTE

- The ENTRAcode+ can be operated in two different modes.
- If the ENTRAcode+ is to be used for only one application, it can be operated in the Standard mode set at the factory
- If the ENTRAcode+ is to be used for more than one application, it must be switched to the Extended mode before initial commissioning.
- To change the operating mode at a later point in time, the ENTRAcode+ must first be reset to the factory settings.
- On the battery-operated version
  ENTRAcode+ AP, first press the **#** key to wake the device from power-saving mode.

Cross-references:

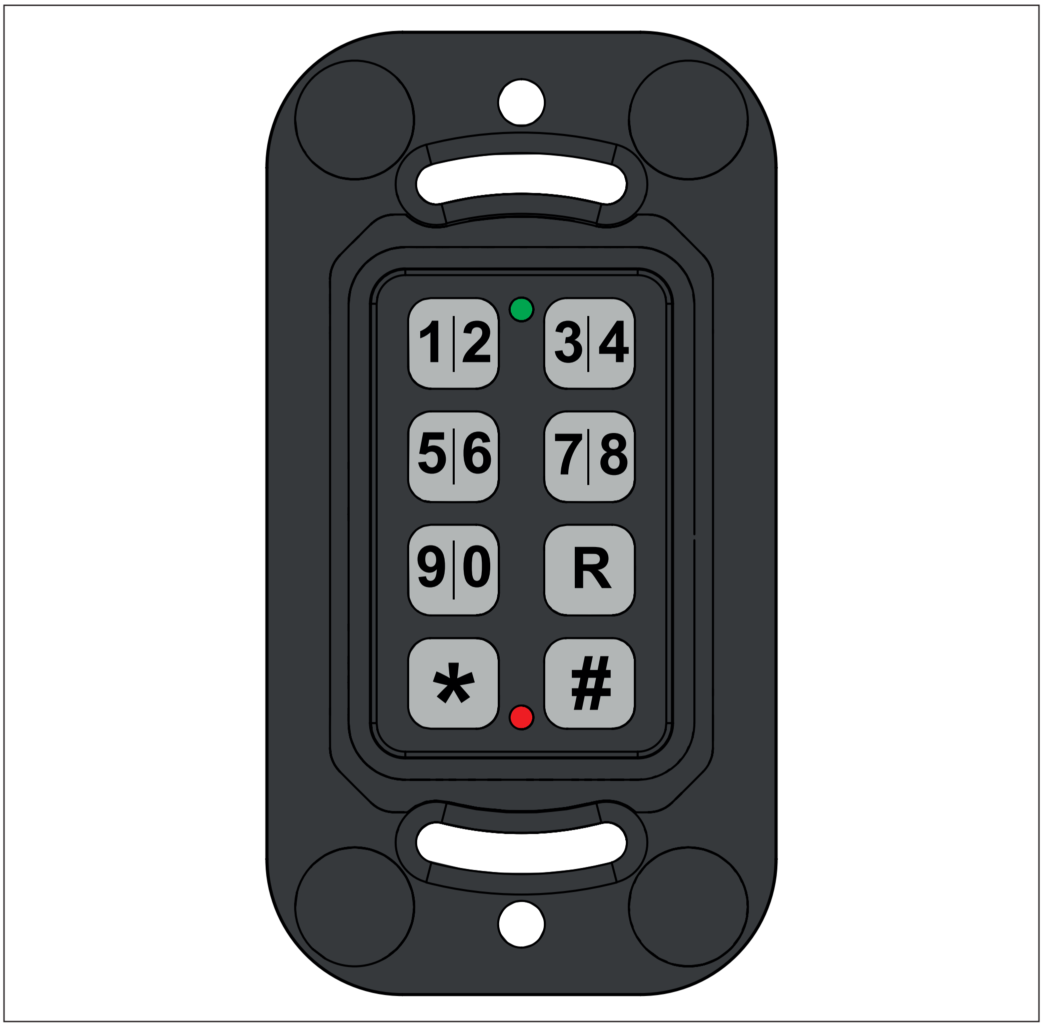
"7. Operation / Operation for both operating modes" on page 20

"8. Operation / Operation in Standard mode" on page 24

"9. Operation / Operation in Extended mode" on page 27

7. Operation / Operation for both operating modes

7.1 The control element



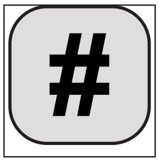
Buttons	Function
1 - 9	• Entering a code • Entering numerical values, e.g for the duration of the transmission delay
R	• Cancel the current entry • Part of the combination for changing the operating mode • Display the firmware version
*	• For the programming of codes and functions
#	• Unlocking during initial commissioning • Unlocking before use (battery version)
🟢	Green LED for status displays
🔴	Red LED for status displays

7. Operation / Operation for both operating modes

7.2 Unlocking the ENTRAcode+

NOTE

In as-delivered state, the ENTRAcode+ is locked and no input is possible. The device must be unlocked before initial commissioning.

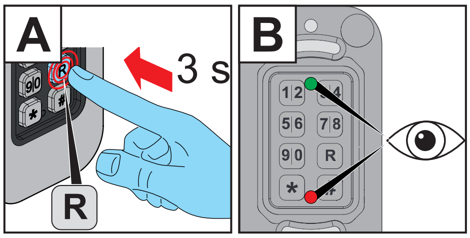


- ▶ Press and hold the **#** key for 5 s.
  - ⇒ Red, green LED and backlighting blink
  - ⇒ Red and green LED go out
  - ⇒ Backlighting lights up
  - ✓ ENTRAcode+ was successfully unlocked

7.3 Querying the firmware version and the active operating mode

NOTE

- ▶ This function is only available from version 3.0
- ▶ On the battery-operated version ENTRAcode+ AP, first press the **#** key for 5 s to wake the device from power-saving mode.



Querying the firmware version

A. Press and hold the R key for 3 s.

⇒ Green LED lights up and goes out after 3 s

B. Observe red and green LED.

⇒ Green and red LED blink simultaneously in accordance with the firmware version

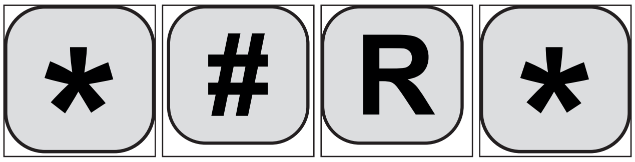
NOTE

The blinking pattern of the red and green LED allows you to read out which operating mode is active.
See "7.2 Unlocking the ENTRAcode+" on page 21

		Firmware version 3	Firmware version 4
Standard mode	**GN**	🟩 🟩 🟩	🟩 🟩 🟩 🟩
	RD	🟥 🟥 🟥	🟥 🟥 🟥 🟥
Extended mode	**GN**	▮▮▮ ▮▮▮ ▮▮▮	▮▮▮ ▮▮▮ ▮▮▮ ▮▮▮
	RD	▮▮▮ ▮▮▮ ▮▮▮	▮▮▮ ▮▮▮ ▮▮▮ ▮▮▮
etc.			

7. Operation / Operation for both operating modes

7.4 Changing the operating mode



- ► Enter the key combination above in the order shown.
  - ⇒ The green and red LED light up for 2 seconds
  - ⇒ During this time, the backlighting goes out
  - ✓ Operating mode has been successfully changed

7.5 Access Control

NOTE

The security function "Access Control" can be used in both operating modes.

Here, a radio command is sent to a separate radio receiver after 3 attempts to enter an invalid 8-digit PIN code. It can be used, for example, to activate a camera or an alarm system.

- ► **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 opens after entering 3 invalid 8-digit PIN codes.**
- ► 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.
- ► On the battery-operated version ENTRAcode+ AP, first press the **#** key to wake the device from power-saving mode.
- ► The radio receiver shown here serves as an example. The key 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 key and on channel selection on multi-channel receivers.
- ► Can be used in both operating modes.

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7.6 Entering the reset code

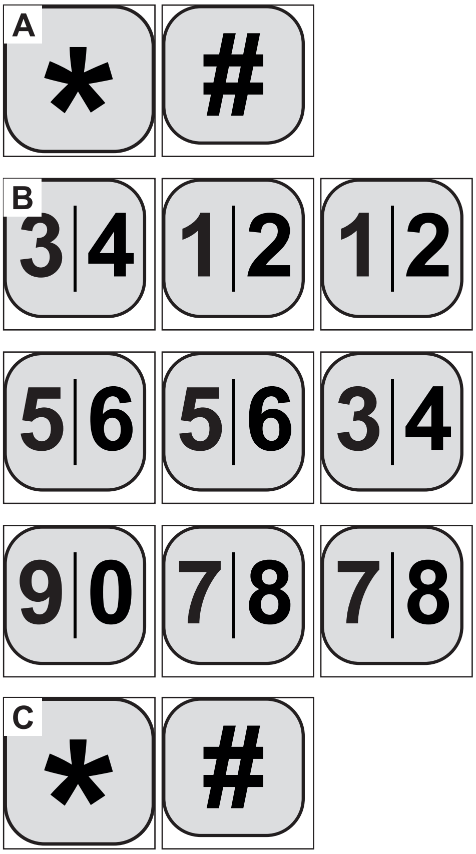
NOTE

- In as-delivered state, the 9-digit reset code can be found on the housing of the ENTRAcode+. This code must be kept in a safe place.
- In Extended mode, too, it is not necessary to pay attention to the double assignment of the keys when entering the reset code.
- Entering the reset code resets the ENTRAcode+ to the factory settings.
- The factory PIN codes are then valid again. See **"8.1 Features of Standard mode" on page 24** and **"9.1 Features of Extended mode" on page 27**.
- Set transmission delay is deactivated.
- Set active time is deactivated.
- Standard mode is activated.
- If one of the digits entered was incorrect, the ENTRAcode+ blinks red several times after input of the ninth digit and then switches off. The process must then be repeated from the beginning.
- On the battery-operated version ENTRAcode+ AP, first press the **#** key to wake the device from power-saving mode.

Example code 321 654 987

NOTE

Irrespective of whether the ENTRAcode+ is operated in Standard or Extended mode, when entering the reset code, the digits can be entered one after another without paying attention to whether the key is pressed briefly or pressed and held.



A. Press the * key, then press the **#** key.

B. Enter the reset code.

A. Press the * key and then the **#** key again.

⇒ The green and red LED light up for 2 seconds

⇒ During this time, the backlighting goes out

✓ The factory settings have been successfully restored

8. Operation / Operation in Standard mode

8.1 Features of Standard mode

NOTE

Standard mode is the simplest way to operate the ENTRAcode+.

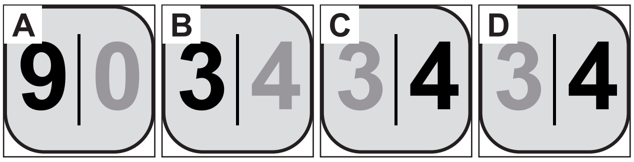
- Only one radio command is available, for example to Open a house door **or** Open a garage door.
- It is not necessary to pay attention to the double assignment of the keys. You only need to press the key once briefly, irrespective of whether you wish to enter the first or second digit on the key.
- Entry of a sequence of digits can be terminated by pressing the **R** key.
- On the battery-operated version ENTRAcode+ AP, first press the **#** key to wake the device from power-saving mode.
- If an invalid PIN code is entered, the red LED blinks for approx. 3 seconds (only after entry of an 8-digit sequence).
- If an invalid PIN code is entered three times (3 x 8 digits), both the red and the green LED blink for approx. 20 seconds.

Changing the operating mode **"7.4 Changing the operating mode" on page 22**.

Radio commands	1
Length of the code	4–8 digits
PIN code	1111

8.2 Entering a sequence of digits in Standard mode

To enter the sequence **9344**, proceed as follows:



A. Press the **9 I 0** key briefly.

⇒ Green LED blinks briefly

B. Press key **3 I 4** briefly.

⇒ Green LED blinks briefly

C. Press key **3 I 4** briefly.

⇒ Green LED blinks briefly

D. Press key **3 I 4** briefly.

⇒ Green LED flickers when a radio command is transmitted

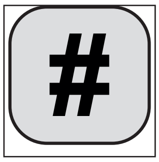
✓ Sequence 9344 has been accepted

✓ Radio command was sent

8.3 Unlocking the ENTRAcode+

NOTE

In as-delivered state, the ENTRAcode+ is locked and no input is possible. The device must be unlocked before initial commissioning.



- ► Press and hold the **#** key for 5 s.
  - ⇒ Red, green LED and backlighting blink
  - ⇒ Red and green LED go out
  - ⇒ Backlighting lights up
  - ✓ ENTRAcode+ was successfully unlocked

8.4 Changing the PIN code

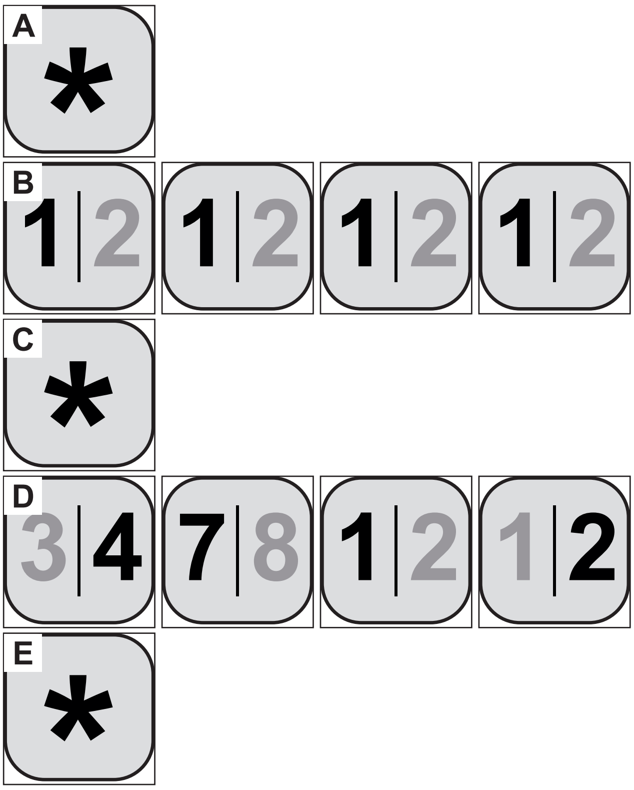
NOTE

Each ENTRAcode+ is programmed with the same standard PIN code **1111** at the factory.

- ► For security reasons, the standard PIN code must be changed before programming on a radio receiver!
- ► On the battery-operated version ENTRAcode+ AP, first press the **#** key to wake the device from power-saving mode.

p. **"8.2 Entering a sequence of digits in Standard mode" on page 24**

Example code 4712



A. Press the * key.

B. Enter current PIN code.

⇒ Backlighting flickers for 1 s

C. Press the * key.

D. Enter new PIN code (in the example shown here, 4712).

E. Press the * key.

⇒ The green and red LED light up for 2 s

✓ PIN code has been changed

8.5 Visitor code

NOTE

In addition to the actual access code, the ENTRAcode+ offers the option of programming an additional, temporary code.

The operator of the device can easily deactivate the code again when it is no longer needed.

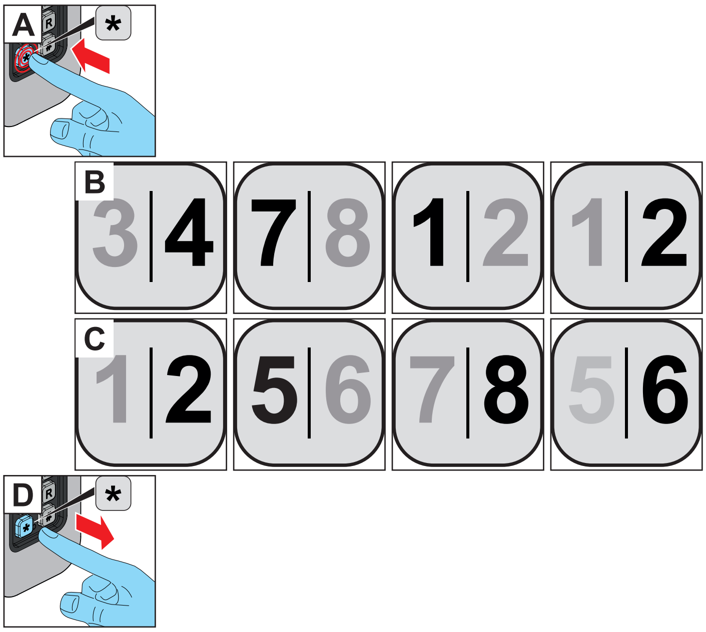
Application example: For guests in a holiday apartment etc.

- ▶ The visitor code is only available in Standard mode.
- ▶ The visitor code must consist of a sequence of 4 to 8 digits.
- ▶ On the battery-operated version ENTRAcode+ AP, first press the **#** key to wake the device from power-saving mode.

Programming the visitor code

Example code 4712

Example visitor code 2586



A. Press and hold the ✱ key.

B. Enter valid PIN code.

⇒ Backlighting flickers for 1 s

C. Enter desired visitor code.

D. Release ✱ key

⇒ The green and red LED light up for 2 s

✓ Visitor code has been successfully programmed

Changing the visitor code

- ▶ Carry out the steps described in **"Programming the visitor code"** and enter the new code at Step C.

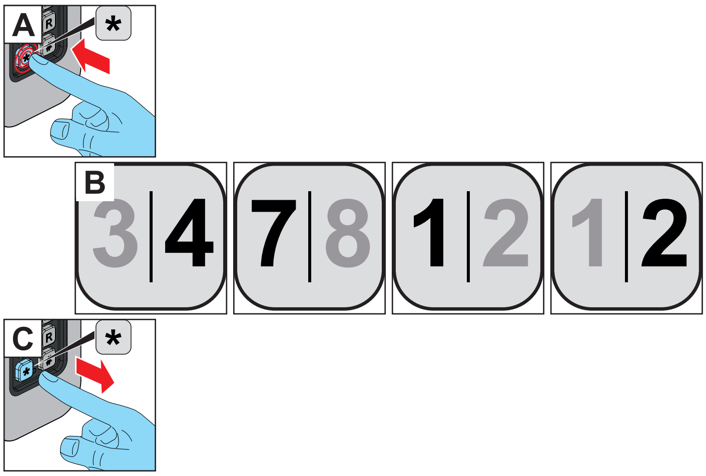
⇒ The old code is overwritten and is no longer valid

✓ The new visitor code has been successfully changed

NOTE

- ▶ If the new visitor code is invalid, i.e. it has fewer than 4 or more than 8 digits, the old visitor code remains valid

Deleting the visitor code



A. Press and hold the ✱ key.

B. Enter valid PIN code (not visitor code).

C. Release ✱ key.

⇒ The green and red LED light up for 2 s

✓ Visitor code has been successfully deleted

9. Operation / Operation in Extended mode

9.1 Features of Extended mode

NOTE

- ► In Extended mode, 5 radio commands for 5 different applications are available. For example, the ENTRAcode+ can be used with one command that opens a house door **and** another command that opens a garage door.
- ► In Extended mode, it is necessary to pay attention to the double assignment of the keys.
- ► Entry of a sequence of digits can be terminated by pressing the **R** key.
- ► The first digit of the PIN code always stands for the radio command which is to be transmitted.

1|2 = radio command 1 **3|4** = radio command 2

5|6 = radio command 3 **7|8** = radio command 4

9|0 = radio command 5

- ► All digits (0 - 9) are available for the remaining positions of the PIN code.
- ► It is necessary to observe the double assignment of the keys when entering a sequence of digits.
- ► To enter the first digit on the key, the key must only be pressed very briefly (<0.5 s). To enter the second digit on the key, the key must be pressed a little longer (>0.5 s).
- ► Changing the operating mode **"7.4 Changing the operating mode" on page 22**.

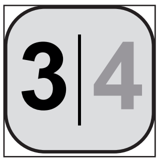
Radio commands	5
Maximum code length	8 digits
PIN codes	
Command 1	1111
Command 2	3333
Command 3	5555
Command 4	7777
Command 5	9999

9.2 Entering a sequence of digits in Extended mode

Selecting the first digit on a key

NOTE

- ► On the battery-operated version ENTRAcode+ AP, first press the **#** key for 5 s to wake the device from power-saving mode.



► Press desired key for less than 0.5 seconds.

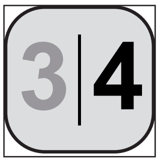
⇒ Green LED blinks

✓ The digit 3 has been entered.

Selecting the second digit on a key

NOTE

In order to select the second digit on a key with double assignment, it is necessary to press the key for longer than 0.5 seconds.



A. Press desired key for longer than 0.5 seconds.

⇒ Green LED lights up until the key is released

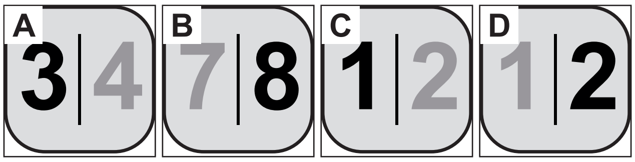
✓ The digit **4** has been entered

Example of entry of a sequence of digits in Extended mode

NOTE

- ► A 4-digit sequence will be entered.
- ► The first digit (3) stands for the second radio command.
- ► The remaining 3 digits are the PIN code.

To enter the sequence **3812** in Extended mode, proceed as follows:



A. Press key **3 I 4** briefly (< 0.5 s).

⇒ Green LED blinks briefly

✓ The digit 3 has been entered

✓ Channel 3 is selected

B. Press and hold key **7 I 8** (< 0.5 s).

⇒ Green LED lights up as long as the key is pressed.

✓ The digit **8** has been entered

C. Press key **1 I 2** briefly (< 0.5 s).

⇒ Green LED blinks briefly

✓ The digit **1** has been entered

D. Press and hold key **1 I 2** (> 0.5 s).

⇒ Green LED lights up as long as the key is pressed

✓ The digit 2 has been entered

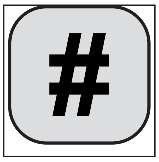
✓ The full code **3812** has been successfully entered

9. Operation / Operation in Extended mode

9.3 Unlocking the ENTRAcode+

➡ ***NOTE***

In as-delivered state, the ENTRAcode+ is locked and no input is possible. The device must be unlocked before initial commissioning.



- ► Press and hold the **#** key for 5 s.
  - ⇒ Red, green LED and backlighting blink
  - ⇒ Red and green LED go out
  - ⇒ Backlighting lights up
  - ✓ ENTRAcode+ was successfully unlocked

9.4 Standard PIN codes

➡ ***NOTE***

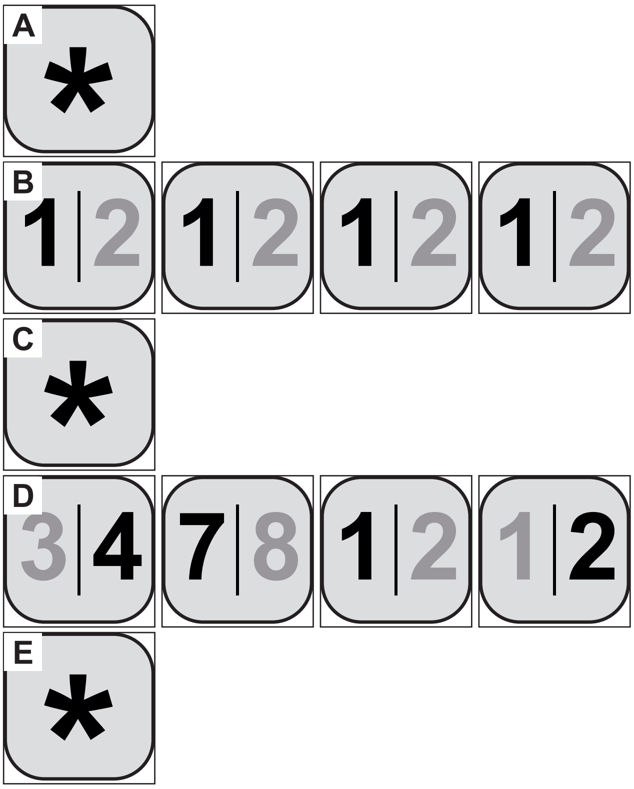
- ► Each ENTRAcode+ is programmed with the same standard PIN codes at the factory.
- ► For security reasons, the standard PIN codes must be changed before programming on a radio receiver!
- ► On the battery-operated version ENTRAcode+ AP, first press the **#** key to wake the device from power-saving mode.

Radio commands	5
Maximum code length	8 digits
PIN codes	
Command 1	1111
Command 2	3333
Command 3	5555
Command 4	7777
Command 5	9999

9.5 Changing the PIN code

p. **"8.2 Entering a sequence of digits in Standard mode" on page 24**

Example code 4712



A. Press the * key.

B. Enter current PIN code.

⇒ Backlighting flickers for 1 s

C. Press the * key.

D. Enter new PIN code (in the example shown here, 4712).

E. Press the * key.

⇒ The green and red LED light up for 2 s

✓ PIN code has been changed

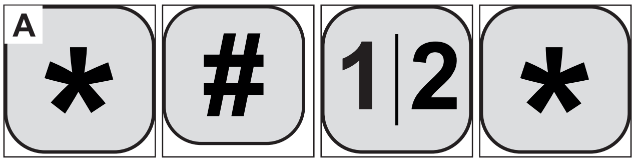
9.6 Active time

NOTE

When this function is activated, the radio command can be sent again within 20 seconds after entry of a valid PIN code by pressing any key on the keypad.

Application example: Stopping a garage door quickly

- The red LED flashes cyclically while the active time is running down.
- Can be used in both operating modes.
- In order to activate the active time on the battery-operated version ENTRAcode+ AP, first press the **#** key for 5 s to wake the device from power-saving mode.
- On the battery-operated version ENTRAcode+ AP, first press the **#** key to wake the device from power-saving mode.



- Enter the key combination above in the order shown.

⇒ The green and red LED light up for 2 seconds

⇒ During this time, the backlighting goes out

✓ Active time has been activated

9.7 Transmission delay

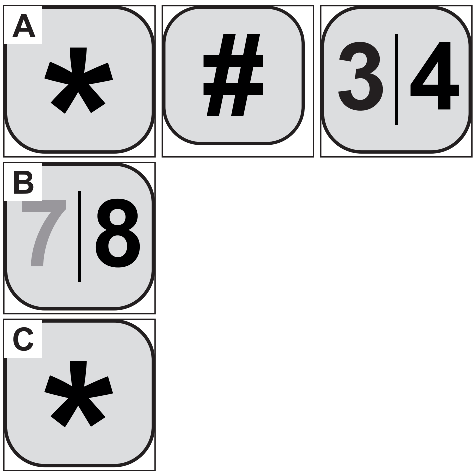
NOTE

After activation of this function and following entry of the correct PIN code, the radio command is only transmitted after the expiry of a selectable period of time.

Application example: It is necessary to cover a certain distance to the door or the gate after entering the PIN code.

- Setting range:
  In Standard mode: 1, 3, 5, 7, 9 s
  In Extended mode: 0 - 9 seconds.
- Here, it is necessary to pay attention to the double assignment of the keys **"9.2 Entering a sequence of digits in Extended mode" on page 28.**
- The red LED flashes cyclically while the transmission delay time is running down.
- On the battery-operated version ENTRAcode+ AP, first press the **#** key to wake the device from power-saving mode.

Activating transmission delay / defining the time



A. Enter the key combination above in the order shown.

B. Enter the desired transmission delay time in seconds (in the example here, 8 seconds).

A. Press the * key.

⇒ The green and red LED light up for 2 seconds

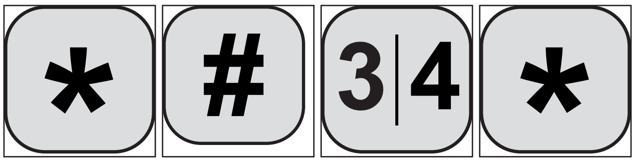
⇒ During this time, the backlighting goes out

✓ Transmission delay has been activated

✓ Desired time for the transmission delay has been set

9. Operation / Operation in Extended mode

Deactivating the transmission delay



A. Enter the key combination above in the order shown.

⇒ The green and red LED light up for 2 seconds

⇒ During this time, the backlighting goes out

✓ Transmission delay has been deactivated

10. Programming on a radio receiver

10.1 Programming the ENTRAcode+ on a radio receiver

NOTE

- 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.
- On the battery-operated version ENTRAcode+ AP, first press the **#** key to wake the device from power-saving mode.
- The radio receiver shown here serves as an example. The key 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 key and on channel selection on multi-channel receivers.

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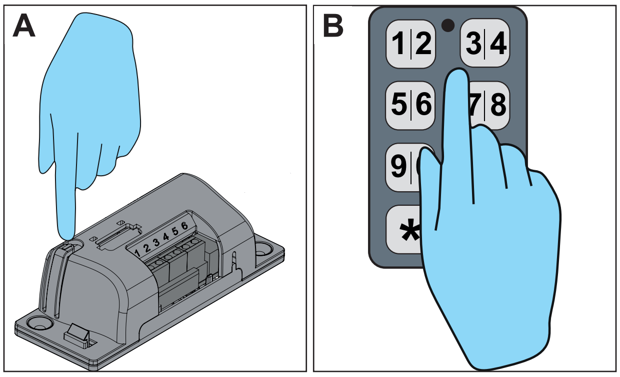


A. Set receiver to programming mode.

B. Enter correct PIN code.

⇒ Green LED on the ENTRAcode+ lights up while the radio command is being transmitted.

⇒ Red LED on the receiver lights up when the radio command has been received.

✓ The radio command has been programmed on the receiver.

11. Troubleshooting

11.1 Replacing the battery

WARNING

Danger of hazardous substances!

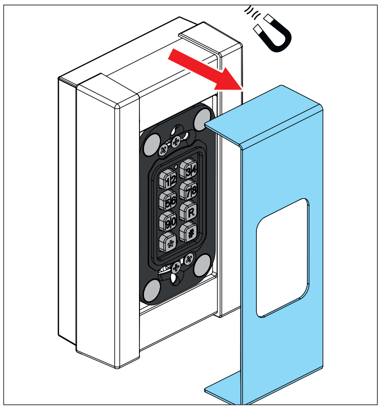
Improper storage, use or disposal of accumulators and batteries are dangerous for the health of humans and animals.

- 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.

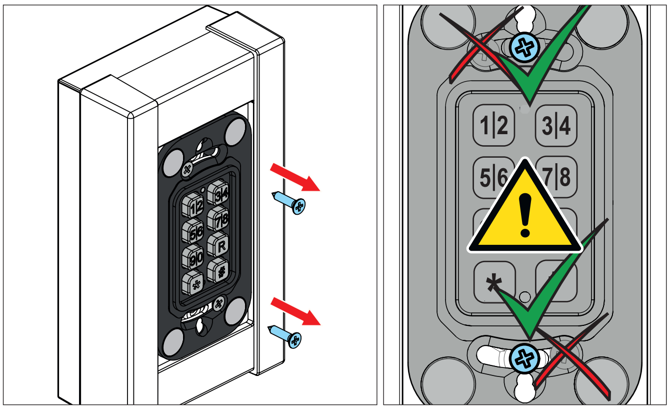
NOTE

If the battery level is low, the green LED blinks briefly several times when the PIN has been entered successfully.

- The batteries should be replaced as soon as possible.



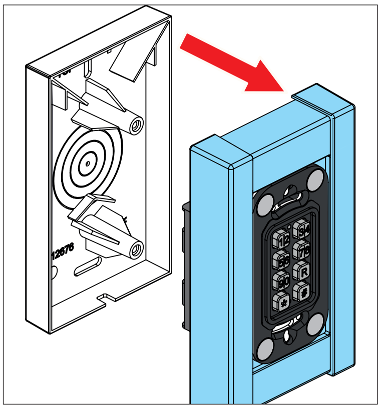
A. Remove the magnetic faceplate



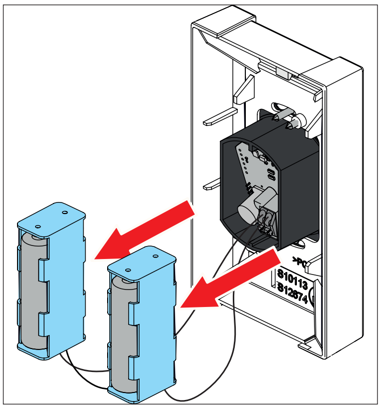
B. Unscrew the two middle screws.

NOTE

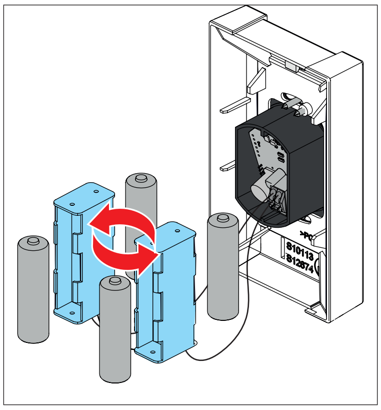
The outer screws hold the core module in position in the housing and must not be removed.



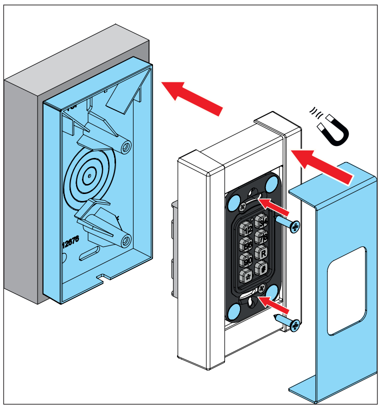
C. Lift off the upper housing section including the core module. Pay attention to the cables (do not disconnect the core module from the batteries).



D. Pull the battery holders out of the mount on the upper housing section (do not disconnect the core module from the batteries).



E. Replace the spent batteries with new ones.



F. Assemble in reverse order.

11.2 Troubleshooting

NOTE

If faults occur which cannot be remedied by reprogramming or by restoring the factory settings, please contact your specialist retailer or the technical hotline of SOMMER Antriebs- und Funktechnik GmbH

- If the device is without function after connection to the mains, check the polarity and correct the connection if necessary, see **"5.5 Electrical connection" on page 18**.
- If the battery-operated version ENTRAcode+ AP
is suddenly without function, check whether the battery charge is sufficient and replace the batteries if necessary. See **"11.1 Replacing the battery" on page 33**.
- If the battery level is low, the green LED blinks briefly several times when the PIN has been entered successfully.

Technical hotline of SOMMER Antriebs- und Funktechnik GmbH:

☎ **+49 (0) 900-1800150**

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

www.sommer.eu/de/kundendienst.html

12. Taking out of operation, storage and disposal

12.1 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.

12.2 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.

12.3 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.

SOMMER Antriebs- und Funktechnik GmbH

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