**EN ORIGINAL INSTALLATION AND OPERATING INSTRUCTIONS****ENTRAkey**

Download the current manual:



Space for reset code



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**Product details:**

Serial no.: Specified on the title page of these installation and operating instructions (warranty label if applicable).

**Year of construction: from (WW / YY) 25 / 2022**

**Information on the installation and operating**

**instructions** Version of the installation and operating instructions: ENTRAkey\_S14227-00000\_222024-0-DRE-Rev-A\_EN

**Warranty**

The warranty complies with the statutory provisions. The contact person for warranty claims is the qualified specialist dealer. The warranty claim is only valid for the country in which the device was purchased. There are no warranty claims for consumables such as rechargeable batteries, batteries, fuses and lamps. This also applies to wearing parts.

**Contact details**

If you require customer service, spare parts or accessories, please contact your qualified specialist dealer, your installation company or contact us directly:

**SOMMER Antriebs- und Funktechnik GmbH**

Hans-Böckler-Straße 27  
73230 Kirchheim unter  
Teck Germany

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www.sommer.eu

**Service**

If you require service, please contact the fee-based service hotline or take a look at our homepage:

 **+49 (0) 900-1800150**

(0.14 Euro/minute from a German landline, mobile rates may vary)

[www.sommer.eu/de/kundendienst.html](http://www.sommer.eu/de/kundendienst.html)

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# 1. About these installation and operating instructions

## 1.1 Storage and transfer of assembly and operating instructions

Read these installation and operating instructions carefully and completely before installation, commissioning, operation and disassembly. Follow all warnings and safety instructions.

Always keep these installation and operating instructions to hand and easily accessible at the place of use.

You can download a replacement for the installation and operating instructions from **SOMMER Antriebs- und Funktechnik GmbH** at:

[www.sommer.eu](http://www.sommer.eu)

When transferring or reselling the product to a third party, the following documents must be handed over to the new operator:

- these installation and operating instructions
- Documents on the modifications and repair work carried out
- Proof of regular care and maintenance and testing
- Declaration of conformity and handover protocol
- Reset code

## 1.2 Important for translations

These original installation and operating instructions were written in German. For any other language The language that can be added is a translation of the German version. Scanning the QR code will take you to the original installation and operating instructions:



<http://som4.me/orig-ENTRAkeyrev-a>

You can find further language variants under:



[som4.me/man](http://som4.me/man)

## 1.3 Described product type

This product is a radio transmitter unit for controlling radio receivers with identity or authorization request. It is designed and built according to the current state of the art and the recognized technical rules.

## 1.4 Target groups of the installation and operating instructions

The installation and operating instructions must be read and observed by every person who is tasked with the following work or use:

- Assembly
- Commissioning
- Settings
- Utilization
- Care and maintenance
- Examination
- Troubleshooting
- Dismantling and disposal

## 1.5 Explanation of the warning symbols and notes

The following warning structure is used in these installation and operating instructions.



Danger  
symbol



**SIGNAL WORD**

**Type and source of danger**  
**Consequences of the danger**

- Defense/avoidance of danger

# 1. About these installation and operating instructions

The danger symbol indicates the danger. The signal word is associated with a hazard symbol. There are three gradations according to the severity of the danger:

**DANGER**

**WARNING**

**CAUTION**

This leads to three differently graded hazard warnings. show.



**DANGER**

**Describes an imminent danger that leads to serious injury or death. Describes possible consequences of the hazard for the user or other persons.**

- Instructions for averting/avoiding the danger.



**WARNING**

**Describes a possible risk of serious or fatal injury**

**Describes possible consequences of the hazard for the user or other persons.**

- Instructions for averting/avoiding the danger.



**CAUTION**

**Warns of a potentially dangerous situation.**

**Describes possible consequences of the hazard for the user or other persons.**

- Information on defense/avoidance of the Danger.

The following symbols are used for notes and information:



**NOTE**

**Describes further information and useful instructions for the proper handling of the product, without danger to persons. If this is not observed, material damage or faults may occur to the product or parts connected to the product.**



## INFORMATION

**Describes further information and useful tips for optimum use of the product.**



## INFORMATION

The symbol indicates that the decommissioned components of the product must not be disposed of with household waste as they contain harmful substances. The components must be disposed of properly at a specialist public waste disposal company.

For this purpose, the local and national regulations must be observed.



Other symbols are used in the illustrations and text.



For more information, read the installation and operating instructions.



symbol refers to a factory setting.

## 1.6 Special warnings, hazard symbols and mandatory signs

The following commandment signs are commandments for the respective actions. The commandments described must be observed.



**WARNING**



**Risk of injury to eyes! Eyes can be seriously injured by chips when drilling.**

- Wear safety goggles.

## 1.7 Notes on text presentation

1. Stands for instructions for action

- Stands for instructions for action
  - ⇒ Stands for results of the action instruction
  - ✓ Stands for the successful completion of an action

Enumerations are shown as a list with bullet points:

- Enumeration 1
- Enumeration 2

Important text passages, for example in instructions, are highlighted in **bold**.

# 1. About these installation and operating instructions

---

References to other chapters or paragraphs are in **bold**, in "Quotation marks" and underlined.

## 1.8 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 the Somloq Rollingcode and SOMloq2 radio systems.
- The transmitter unit is only approved for devices and systems where a malfunction in the transmitter or the radio receiver does not pose a risk to persons, animals or property or where this risk is covered by other safety devices.
- Remote control of devices and systems with an increased risk of accidents (e.g. crane systems) is prohibited!

The operator of the radio system has no protection against interference from other telecommunications systems and devices. This includes, for example, radio systems that are properly operated in the same frequency range. In the event of significant interference, the operator must contact the responsible telecommunications office for radio interference measurement technology or radiolocation.

## 1.9 Improper use

Any use other than that described in chapter **"Intended use" on page 6** is considered improper use. The risk is borne solely by the operator.

The manufacturer's warranty expires due to

- Damage caused by other and improper use
- Use with defective parts
- unauthorized changes Product
- Modifications and unauthorized programming  
The product must not be used in:
- Hazardous areas
- Extremely salty air
- aggressive atmosphere, including chlorine

## 2. General safety instructions

### 2.1 Basic safety instructions for operation



#### **DANGER**

**Danger from electric current! If live parts are touched, a dangerous current can flow through the body. This can result in electric shock, burns or death.**

- ▶ Installation, testing and replacement of electrical parts may only be carried out by a qualified **electrician**.
- ▶ Disconnect the appliance from the power supply before working on electrical components.
- ▶ Then check that there is no voltage and secure against being switched on again.



#### **DANGER**

##### **Improper handling**

**If the product is used improperly, serious or even fatal injuries may result**

- ▶ Remote control of systems with an accident risk may only be carried out with direct visual contact to the entire movement range of the system.
- ▶ The locally applicable safety regulations for this system must be observed. Information can be obtained from the E-Werke, VDE and trade associations.
- ▶ Do not operate the ENTRaKey in radio-sensitive locations or systems (e.g. airplanes, hospitals).
- ▶ In addition to the transmitter unit, there must also be an alternative access option.
- ▶ The ENTRaKey must be connected in such a way that it is protected against unauthorized manipulation.



#### **WARNING**

**Danger from harmful substances! Improper storage, use or disposal of rechargeable batteries and batteries pose a risk to human and animal health.**

- ▶ Rechargeable batteries and batteries must be kept out of the reach of children and animals.
- ▶ Keep rechargeable batteries and batteries away from chemical, mechanical and thermal influences.
- ▶ Do not recharge batteries.
- ▶ Used rechargeable batteries, used batteries and individual components of the device must not be disposed of with household waste, but must be disposed of properly.



#### **NOTE**

- ▶ To avoid damage to the environment, dispose of all components in accordance with local or country-specific regulations.

### 2.2 Instructions for cleaning



#### **NOTE**

Cleaning with the wrong cleaning agents can lead to damage.

- ▶ Clean only with a clean, dry cloth.

### 3. Function and product description

---

#### 3.1 Application examples





## 3. Function and product description

---

### 3.2 Product labeling



#### **NOTE**

There is a type plate on the appliance.

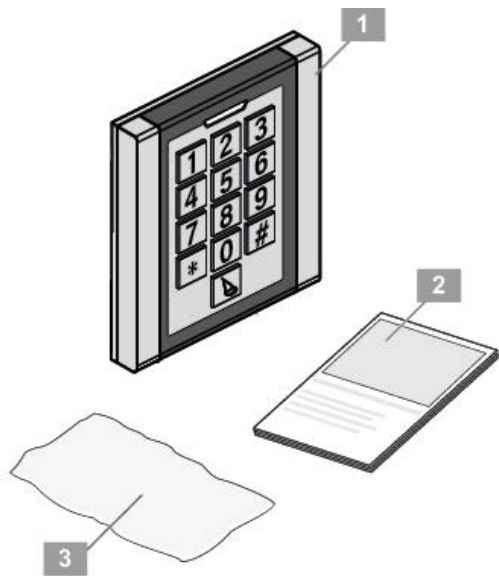
The type plate contains:

- Type designation
- Item number
- Radio frequency
- Module number
- Date of manufacture with calendar week and year
- Serial number

If you have any queries or require service, please quote the type designation, date of manufacture and serial number.

# 3. Function and product description

## 3.3 Scope of delivery

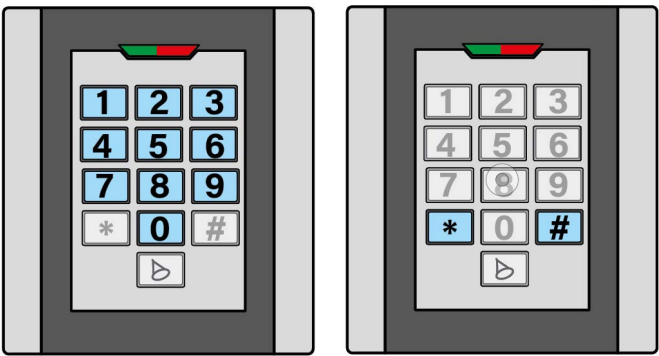


1	ENTRAkey
2	Assembly and operating instructions
3	Assembly bag for small parts

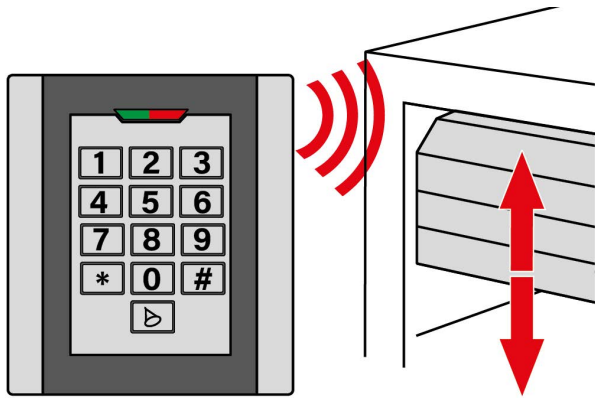
## 3.4 Function

The ENTRaKey enables doors and gates to be opened and closed wirelessly. **Two radio channels** with a total of three different radio commands are available for this purpose (two coded, one uncoded). The radio commands can be programmed on a compatible radio receiver from SOMMER Antriebs- und Funktechnik GmbH.

### Entering a coded command



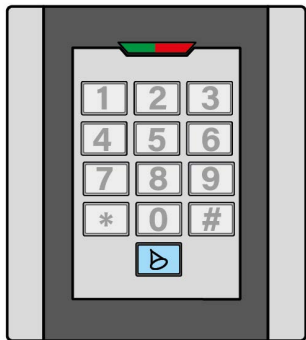
1. Valid code is entered using the numeric keys.
2. Code entry is completed with the button for the desired application\* or #.



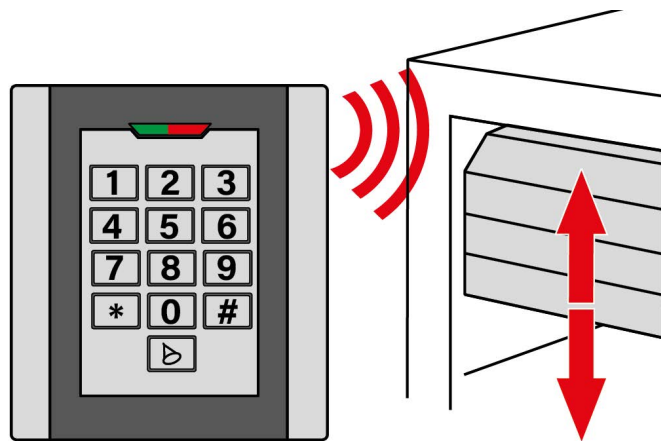
3. Radio command is sent to radio receiver.

### 3. Function and product description

#### Entering an uncoded command



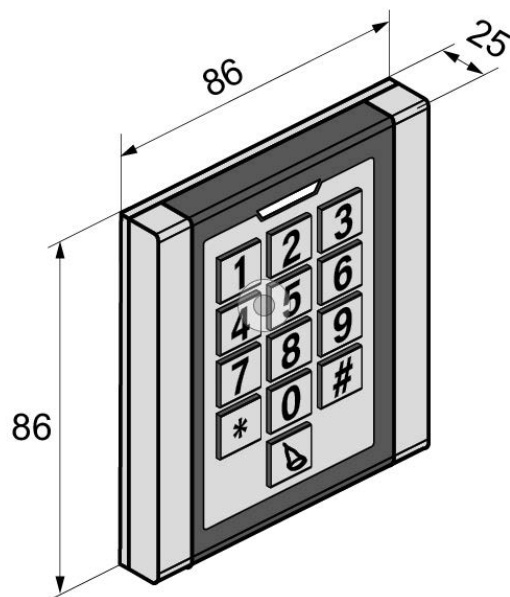
1. Press the button for uncoded radio command.



2. Radio command is sent to radio receiver.

#### 3.5 Dimensions

ENTRAkey



### 3. Function and product description

#### 3.6 Technical data

<b>ENTRAkey</b>		
Battery	1 x CR2450 (3V)	
Battery life	approx. 4 years	
Operating temperature range	- 10 °C ... 50 °C	
IP protection class	IP65	
Radio system	SOMloq2	
Radio frequency	S14150	922,50 MHz
Module number	TRX70	
Radio range	max. 110 m*	
Radio commands	3 (2 x coded, 1 x uncoded)	
Dimensions	86 x 86 x 25 mm	
Weight	430 g	

\* Under optimal conditions

## 4. Tools and protective equipment

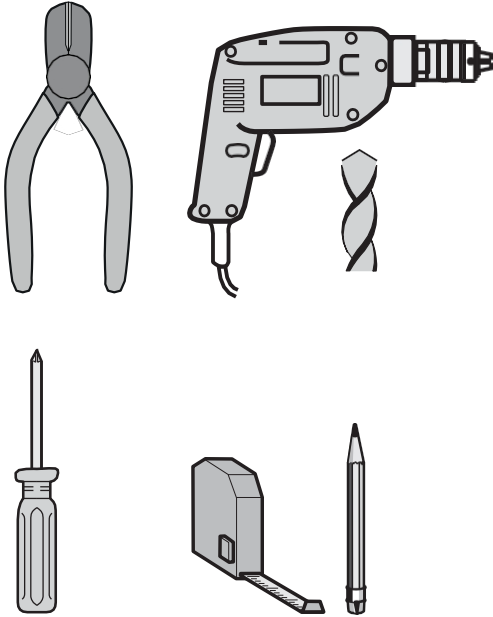
---

### 4.1 Required tools



#### NOTE

- ▶ The tools shown are only the minimum recommended equipment for installing an ENTRaKey+.
- ▶ The actual tool required may vary depending on the design of the device and the mounting surface.



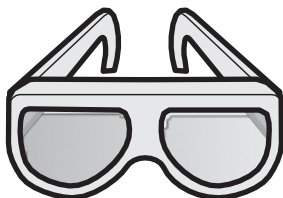
### 4.2 Personal protective equipment



#### WARNING

**Risk of injury to eyes! Eyes and hands can be seriously injured by shavings when drilling.**

- ▶ Wear safety goggles when drilling.



# 5. Assembly

## 5.1 Installing ENTRaKey



### WARNING

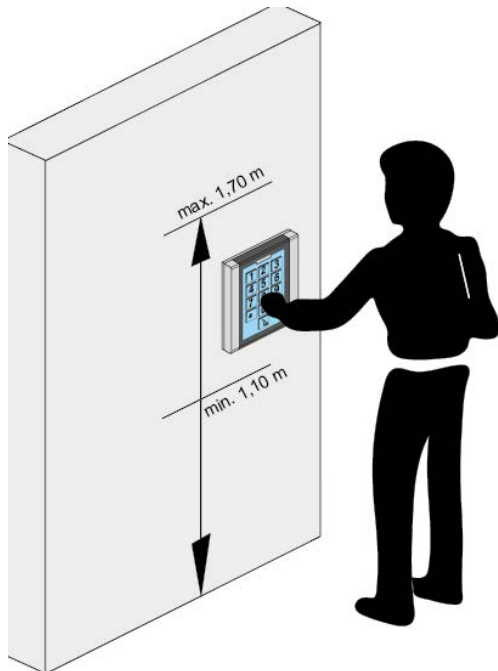
**Risk of injury to eyes! Eyes and hands can be seriously injured by shavings when drilling.**

► Wear safety goggles when drilling.

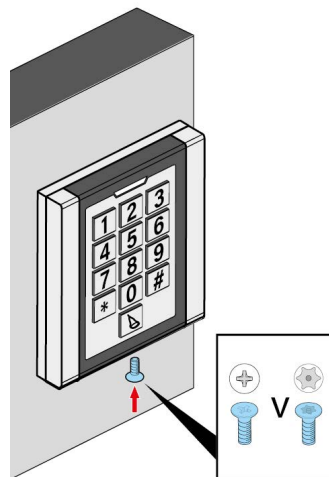
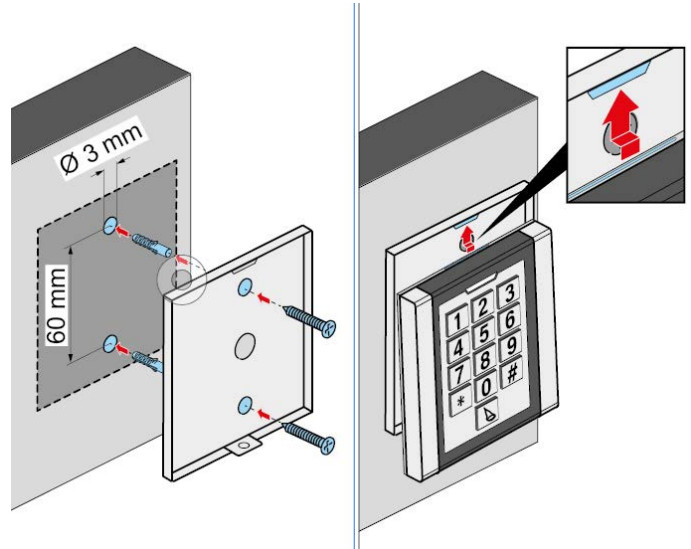


### NOTE

► To be able to operate the ENTRaKey+ comfortably, observe the installation height.



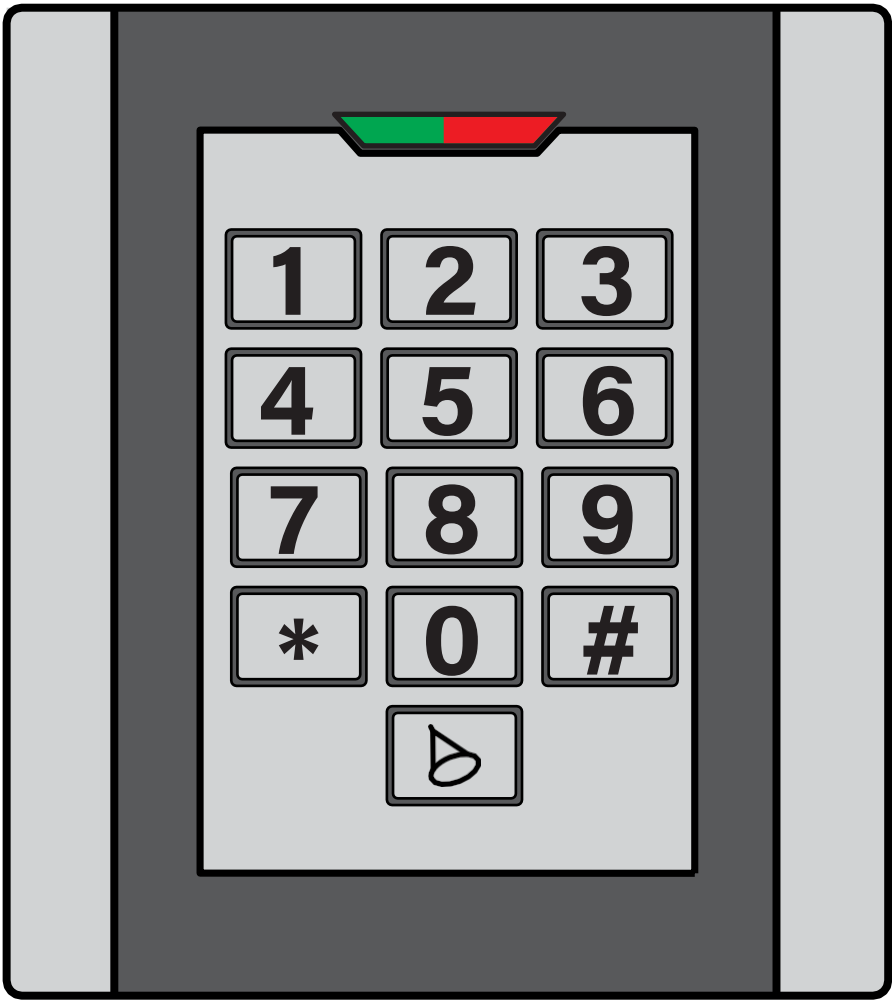
1. Open the package.  
Check the entire contents with the specified scope of delivery, see chapter **"3.3 Scope of delivery" on page 10**.



2. Drill the holes and fasten the lower part of the housing properly.
3. Hook the upper housing section into the lower housing section.
4. Screw both housing parts together using one of the countersunk screws supplied.







# 6. Overview

## 6.1 The control element



Keys	Function
<div>1</div> <div>9</div>	Digits for entering a code
<div></div>	Command 1
<div>#</div>	Command 2
<div>▶</div>	Command 3 (not codable)
<div></div>	Display element 2-color (green / red)

# 7. Display element

ENTRAkey status	LED		Signal tone
Valid input	lights up green		beeps 1 time
Invalid input	lights up red		beeps 4 times quickly
Programming mode is opened	flashes red and green quickly		beeps 3 times quickly
Programming mode active	flashes green every second		OFF
Programming mode is closed	flashes red quickly		beeps 4 times quickly
Memory error	flashes red		beeps 1 time



## 8. Commissioning

### 8.1 Master code



#### NOTE

- ▶ A master code must be entered for various processes.
- ▶ The factory-set master code is **1234**.
- ▶ For security reasons, the factory-set master code must be changed to an individual master code by the operator. see "Changing the master code" on page 18



### 8.2 Access codes and radio commands



#### NOTE

- ▶ The access codes listed in these instructions are examples.
- ▶ The access codes are stored in the ENTRaKey.
- ▶ Memory space is available for a maximum of 100 access codes.
- ▶ An access code consists of 2 - 6 digits.
- ▶ Each user can be assigned their own access code.
- ▶ **Variant 1:** One access code can control both applications. The addition\* or # decides whether the radio command is sent to application 1 or application 2 is sent.
- ▶ **Variant 2:** An access code can only control one application. Regardless of whether the addition\* or # is pressed the radio command is always sent to the programmed Application sent.
- ▶ **Variant 3:** A radio command can also be sent uncoordinated. The button with the bell is provided for this purpose.



#### Variant 1

**The access code is not linked to an application by the operator during setup**

⇒ After entering the access code, the user can choose to which application the access code should be sent.

Access code		Application	Radio command
1981	+	*	Sent to application 1
1981	+	#	Sent to application 2

#### Variant 2

**A: The access code was linked to an application by the driver during setup**

⇒ The access code can only be sent to an application specified by the operator.

Access code		Application	Radio command
2008	+	*	Sent to application 1
2008	+	#	Sent to application 1
2022	+	*	Sent to application 2
2022	+	#	Sent to application 2

#### Variant 3

**It is also possible to send an uncoded radio command.**

button	Radio command
	Sent to taught-in application

## 8. Commissioning

### 8.3 Programming mode



#### NOTE

Programming mode must be activated in order to make the following settings:

- ▶ Change master code
- ▶ Add access codes
- ▶ Delete individual access codes
- ▶ Delete all access codes
- ▶ Restore factory settings
- ▶ Backlight and buzzer settings
- ▶ The factory-set master code is **1234**.
- ▶ For security reasons, the factory-set master code must be changed to an individual master code by the operator. see "Changing the master code" on page 18

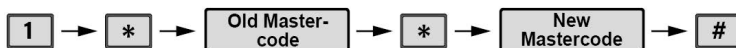
### 8.4 Activate programming mode



Programming mode is now active.

#### Change master code

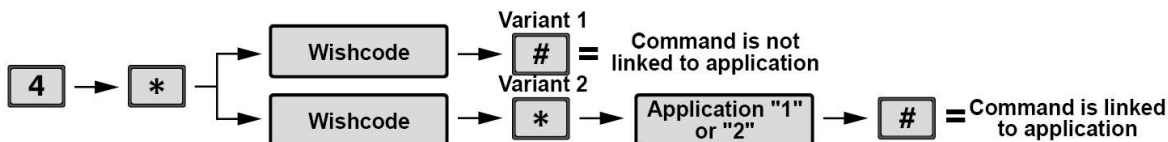
1. Open programming mode.
2. Make the following entries:



✓ The master code has been successfully changed.

#### Add access codes

1. Open programming mode.
2. Make the following entries:



✓ The code has been added.

#### Delete a single code



✓ The code has been deleted.

## 8. Commissioning

---

### Delete all codes



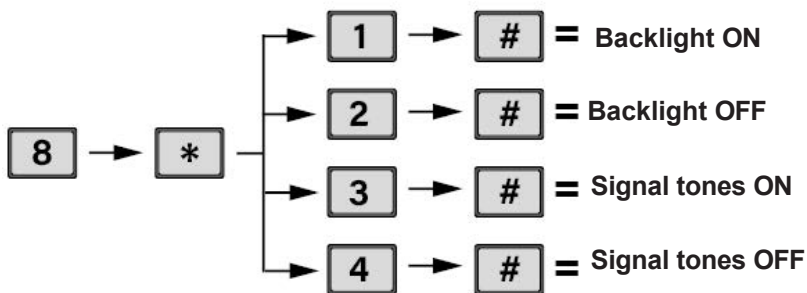
✓ All codes have been deleted.

### Restore factory settings



✓ All codes have been deleted.

### Backlight and signal tone settings



### Exit programming mode



✓ Programming mode has been exited

⇒ The appliance is ready for operation.

## 8. Commissioning

### 8.5 Teaching ENTRAkey to a radio receiver



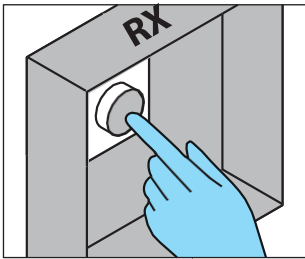
#### NOTE

- ▶ Each radio command must be taught-in at a radio receiver so that the desired application can be controlled with it.
- ▶ The correct procedure for selecting the desired channel on the radio receiver, setting it to teach-in mode and the respective reaction of the LED on the radio receiver in the various phases of the teach-in process must be taken from the instructions for the radio receiver or the drive.
- ▶ During teach-in, the receiver must be within range of the transmitter.
- ▶ Further information can be found in the instructions for the receiver.



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#### Teaching in radio commands for variant 1



1. Set the radio receiver of the desired application to learning mode.



2. Teach in the radio command by entering the previously set access code + pressing the button for the desired application\* or #.

⇒ Observe the reaction of the radio receiver as described in its instructions.  
⇒ Then test whether the radio command is executed after re-entering it.

## 8. Commissioning

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### Teaching in radio commands for variant 2



1. Set the radio receiver of the desired application to learning mode.



2. Teach in the radio command by entering the previously set access code + pressing one of the buttons\* or #.  
⇒ Observe the reaction of the radio receiver as described in its instructions.  
⇒ Then test whether the radio command is executed after re-entering it.

### Teaching in radio commands for variant 3



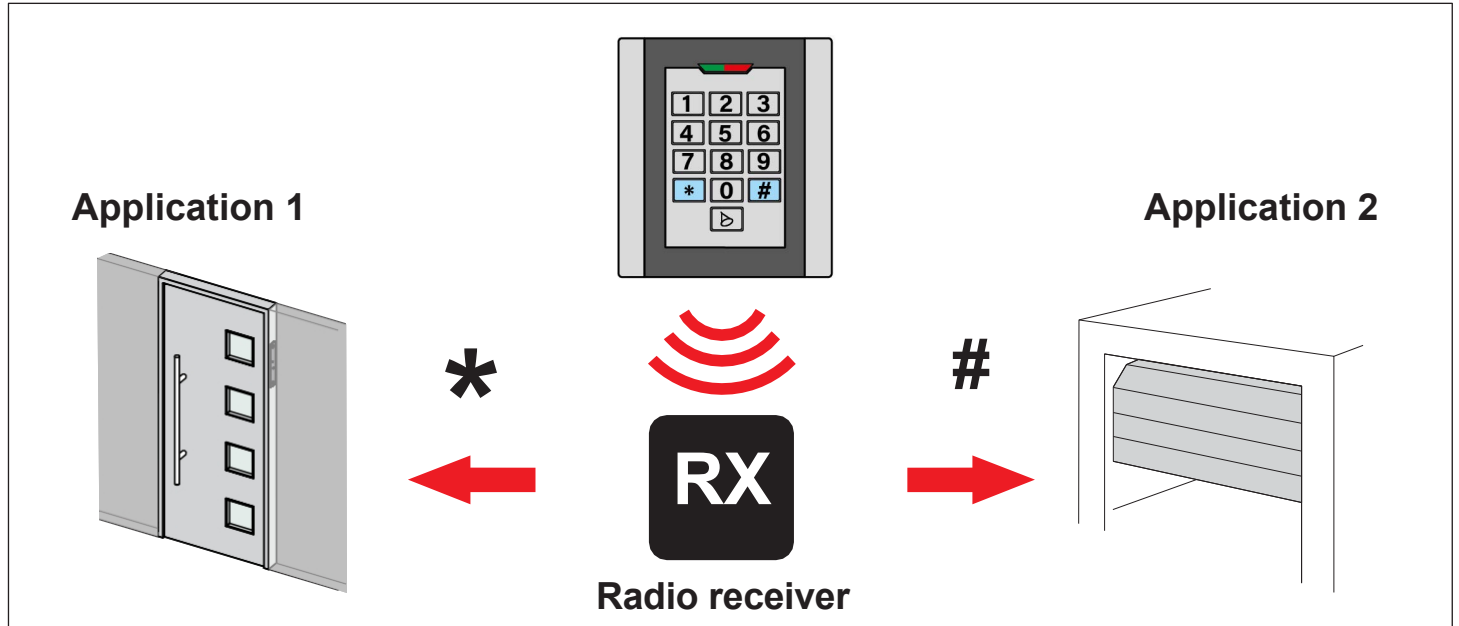
1. Set the radio receiver of the desired application to learning mode.



2. Teach in the uncoded radio command by pressing the button.  
⇒ Observe the reaction of the radio receiver as described in its instructions.  
⇒ Then test whether the radio command is executed after pressing the button again.

## 8. Commissioning

### 8.6 Set up ENTRaKey (scenario)



#### Set up access codes and any desired application:

1. Activate programming mode.



2. Add desired code.

#### Variant 1:



⇒ The code for this radio command is now 1981.

⇒ The access code is not linked to an application and can control one of the two applications, depending on the addition \* or #.

⇒ The access code is valid together with the suffix \* for application 1 and with the suffix # for application 2.

#### Variant 2 for application 1:



⇒ The code for this radio command is now 2008.

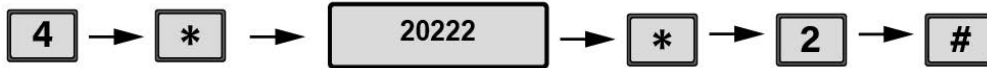
⇒ The access code is linked to application 1.

⇒ The access code together with the suffix \* or # is only valid for application 1.

## 8. Commissioning

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Variant 2 for application 2:



⇒ The code for this radio command is now 2022.

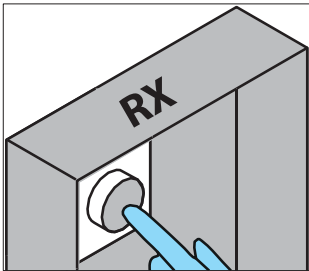
⇒ The access code is linked to application 2.

⇒ The access code together with the suffix \* or # is only valid for application 2.

3. Exit programming mode.

 or  Automatically after 25 seconds of inactivity

4. Teach-in to radio receiver



✓ The setup is complete.

# 9. Operation

---

## 9.1 Operation

**Enter access code without link to application (variant 1):**



1. Enter access code.
2. Also enter\* for application 1  
✓ Radio command for application 1 is executed.

or



1. Enter access code.
2. Also enter # for application 2  
✓ Radio command for application 2 is executed.

**Enter access code with link to application (variant 2):**



1. Enter access code.
2. Additionally enter\* or #  
✓ Radio command is executed.

**Execute uncoded radio command (variant 3):**



1. Press the button for uncoded radio command.  
✓ Radio command is executed.



# 10. troubleshooting

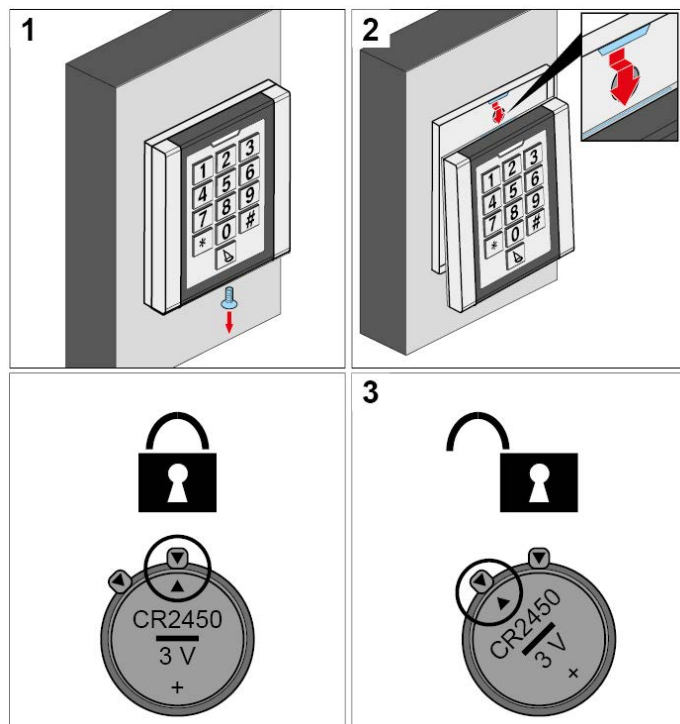
## 10.1 Battery change



### WARNING

**Danger from harmful substances!**  
This product contains button cells.

- ▶ If the button cell is swallowed, severe internal burns can occur within just two hours, leading to death.
- ▶ Keep new and used batteries away from children.
- ▶ If the housing does not close securely, do not use the hand-held transmitter and always keep it away from children.
- ▶ If there is a possibility that a battery has been swallowed or is in another body orifice, seek medical assistance immediately.
- ▶ Do not open the battery, do not recharge, do not bring into contact with water, fire or high temperatures.
- ▶ Risk of explosion due to incorrect battery type. If the battery is replaced with an incorrect battery type, there is a risk of explosion
- ▶ Used rechargeable batteries, used batteries and individual components of the device must not be disposed of with household waste but must be disposed of properly in accordance with national regulations.



1. Open the housing by loosening the countersunk screw.
2. Remove the upper part of the housing.
3. Battery compartment on the back of the upper part of the housing open with a coin, for example.
4. Replace the old battery with a new one.
5. Dispose of the old battery properly.

# 10. troubleshooting

---

## 10.2 Troubleshooting



### NOTE

If faults occur that cannot be rectified by re-learning or restoring the factory settings, please contact your specialist dealer.

- If the device suddenly stops working, check whether the batteries still have sufficient charge and replace them if necessary, see **"10.1 Changing the batteries" on page 25.**

# 11 Decommissioning, storage and disposal

---

## 11.1 Decommissioning



### **WARNING**

**Danger if not sufficiently qualified personnel!**

- ▶ Persons under the influence of drugs, alcohol or medication that affects their ability to react must not work on the appliance.
- ▶ The appliance may only be dismantled by a trained specialist.

---

Dismantling the ENTRaKey is carried out in the reverse order to installation. see "5.1 Installing ENTRaKey" on page 14

## 11.2 Storage

Store the device as follows:

- in closed and dry rooms where they are protected from moisture
- at a storage temperature of +5°C to +45 °C



### **NOTE**

**Improper storage can lead to damage to the appliance.  
The appliance must be stored in closed and dry rooms.**

# 11 Decommissioning, storage and disposal

## 11.3 Waste disposal

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



### WARNING

**Danger from harmful substances! Improper storage, use or disposal of rechargeable batteries, batteries and drive components pose a risk to human and animal health. It comes to serious injury or death.**

- ▶ Keep rechargeable batteries and batteries out of the reach of children and animals.
- ▶ Rechargeable batteries and batteries must be replaced before chemical and thermal degradation.
- ▶ Batteries can contain hazardous chemical substances that pollute the environment and endanger the health of people and animals. Particular care must be taken when handling batteries containing lithium, as these can easily ignite and cause fires if handled improperly.
- ▶ Batteries and accumulators used in electrical devices and can be removed in a non-destructive manner must be disposed of separately from it.

### NOTE

- ▶ To avoid damage to the environment, dispose of all components in accordance with local and national regulations.
- ▶ Avoid the generation of waste wherever possible. Please check options for reusing components instead of disposing of them.



### INFORMATION

This device must be disposed of in accordance with the European Directive 2012/19/EU on waste electrical and electronic equipment (WEEE).

This directive provides the framework for the EU-wide take-back and recycling of old appliances.

All decommissioned components, used rechargeable batteries and used batteries from the drive must not be disposed of with household waste. Dispose of components, used batteries and used batteries that are no longer used properly. To do so, you must comply with local and country-specific regulations. Ask your specialist dealer about the current disposal methods.



FR

Cet appareil  
et ses piles  
se recyclent

À DÉPOSER  
EN MAGASIN



OU

À DÉPOSER  
EN DÉCHÈTERIE



Points de collecte sur  
[www.quefairedemesdechets.fr](http://www.quefairedemesdechets.fr) Privilégiez la  
réparation ou le don de votre appareil !

## 12. FCC informations

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### RF exposure statement

This equipment complies with the FCC and ISED radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Cet équipement est conforme aux limites d'exposition aux rayonnements de la FCC et de l'ISED établies pour un environnement non contrôlé. Cet émetteur ne doit pas être co-localisé ou fonctionner en conjonction avec une autre antenne ou un autre émetteur.

### FCC Warning

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct

the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### IC WARNING

This device contains licence-exempt transmitter(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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