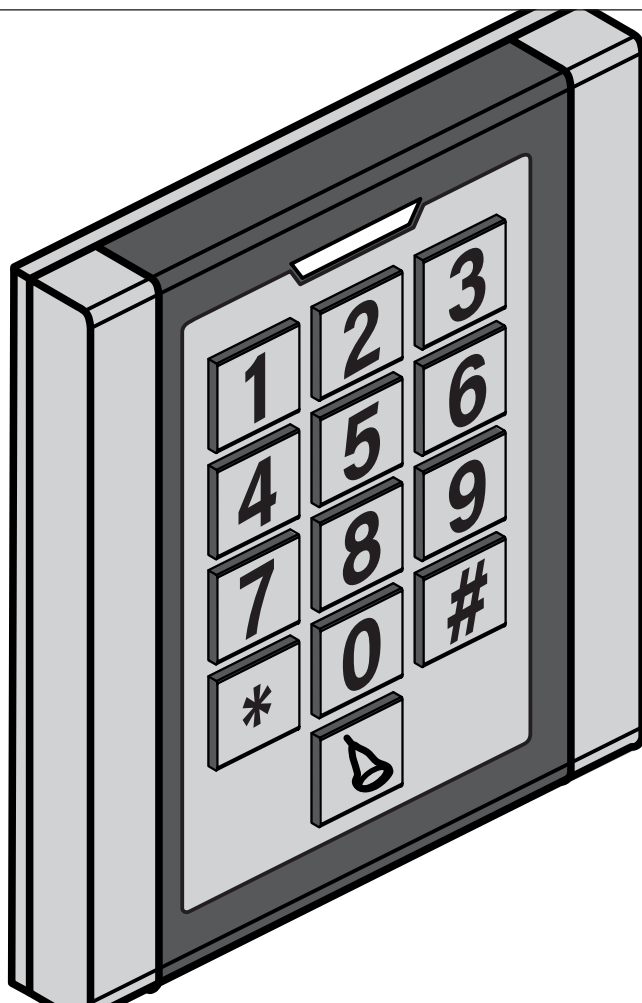




EN TRANSLATION OF THE ORIGINAL INSTALLATION AND
OPERATING MANUAL

ENTRAkey

Download the current manual:



Information on the Installation and Operating Manual

Version of the installation and operating manual:
ENTRAkey_S14227-00024_152025-0-DRE-Rev-B_US-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-Straße 27
73230 Kirchheim unter Teck
Germany

info@sommer.eu
www.sommer.eu

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All brands mentioned in this manual 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
- 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-ENTRAkeyrev-a>

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.

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

1. About this Installation and Operating Manual

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.



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:



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.



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.

1.6 Special warnings, hazard symbols and mandatory signs

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.

1.7 Information regarding the depiction of text

1. 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.

1.8 Intended use

1. About this Installation and Operating Manual

- The transmitter unit may only be used together with radio receivers from SOMMER Antriebs- und Funktechnik GmbH.
- The transmitter unit is suitable for SOMloq Rolling-code 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.

1.9 Improper use

Any use other than that described in Chapter **“Intended use” on page 5** 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

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 ENTRaKey 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.



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.

2.2 Instructions for cleaning



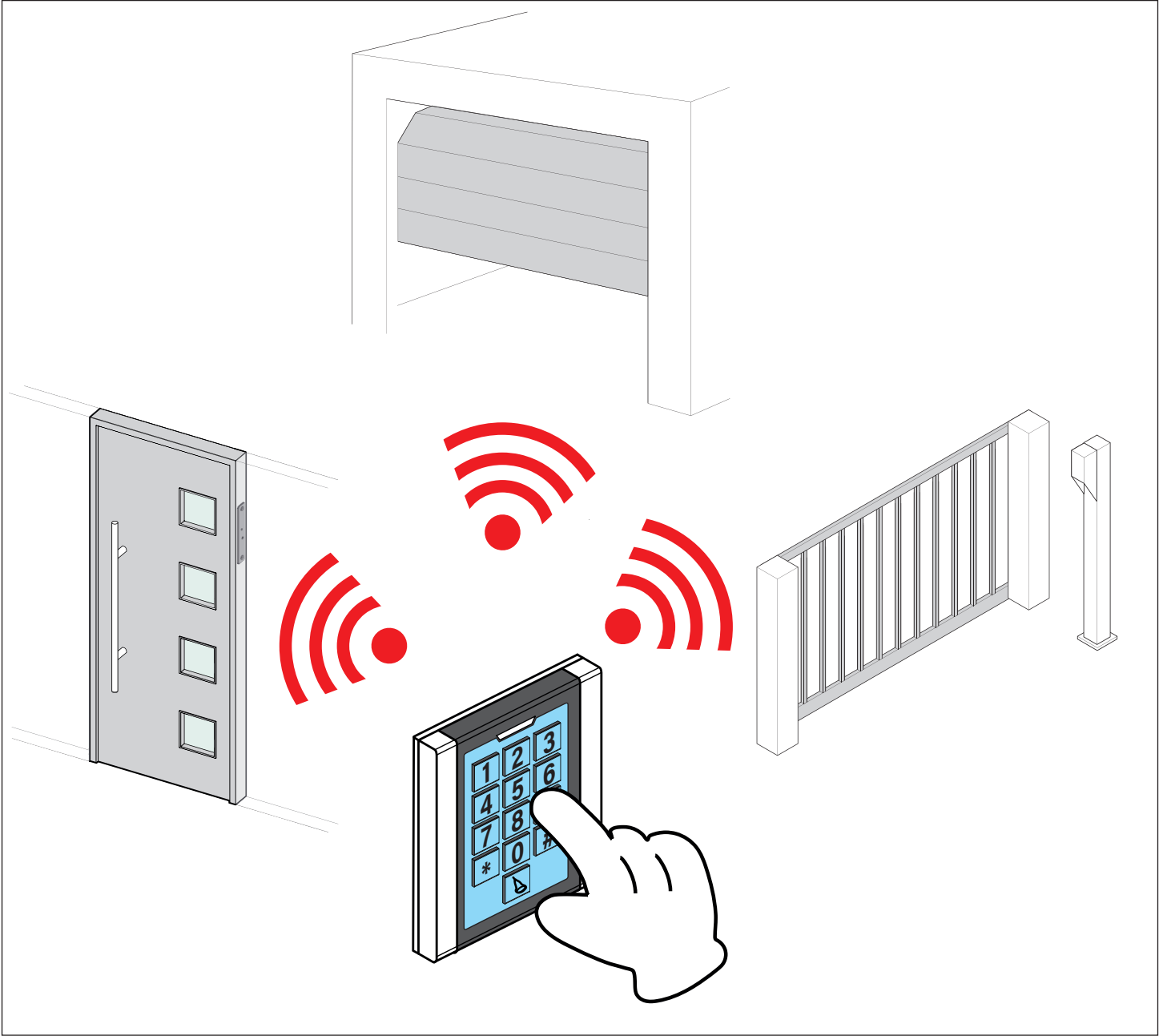
NOTE

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



3. Description of function and product

3.2 Product designation



NOTE

There is a type plate on the device.

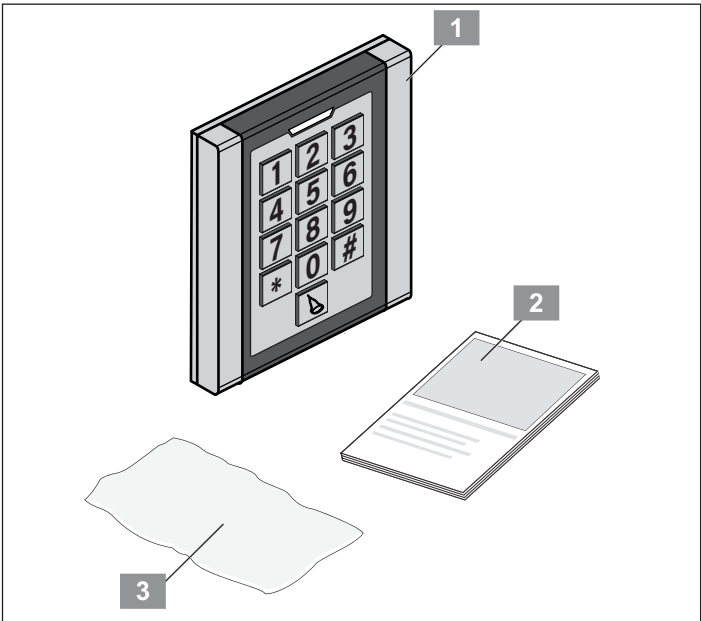
The type plate includes:

- type designation
- Item Number
- radio frequency
- date of manufacture with calendar week and year
- serial number
- IP code

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

3. Description of function and product

3.3 Scope of delivery

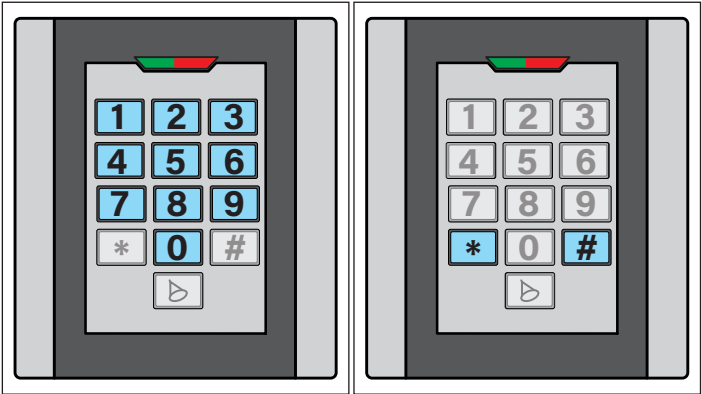


FD	
1	ENTRAkey
2	Translation of the Installation and Operating Manual
3	Installation bag for small parts

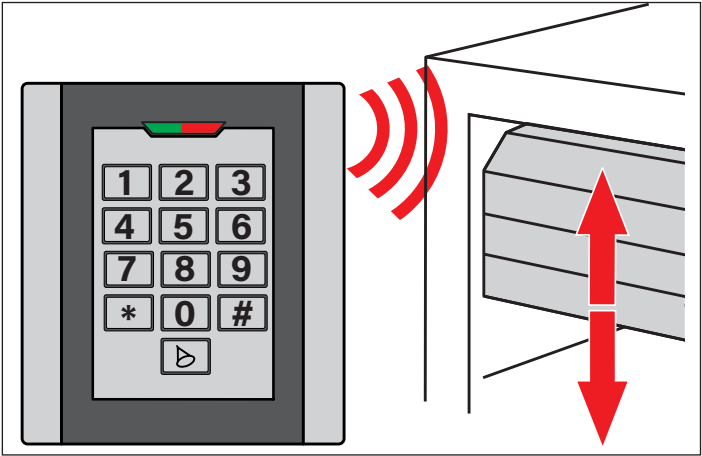
3.4 Function

The ENTRaKey allows wireless opening and closing of doors and gates. 3 different radio commands are available for this purpose (2 coded with the buttons ***** and **#**, 1 uncoded with the button **▶**). The radio commands can be programmed on a compatible operator or radio receiver from SOMMER Antriebs- und Funktechnik GmbH.

Entering a coded command



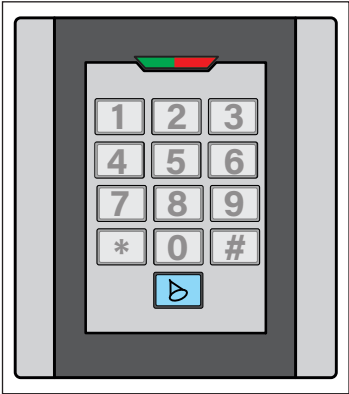
1. Enter valid code with the number buttons.
2. Complete code entry with the button for the desired application * e.g. #.



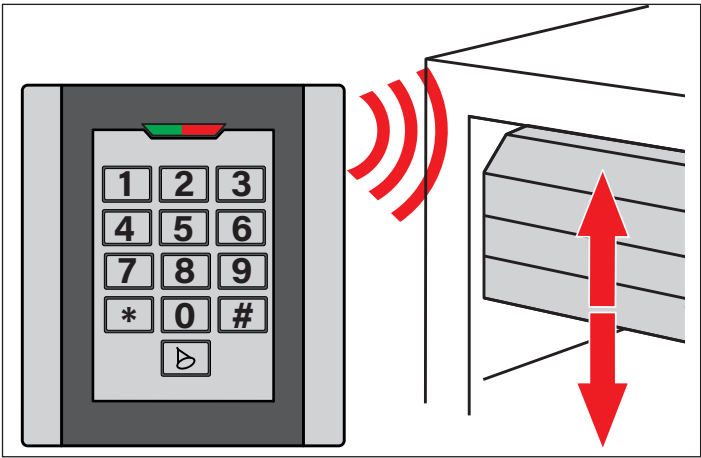
3. Radio command is sent to radio receiver.

3. Description of function and product

Entering an uncoded command

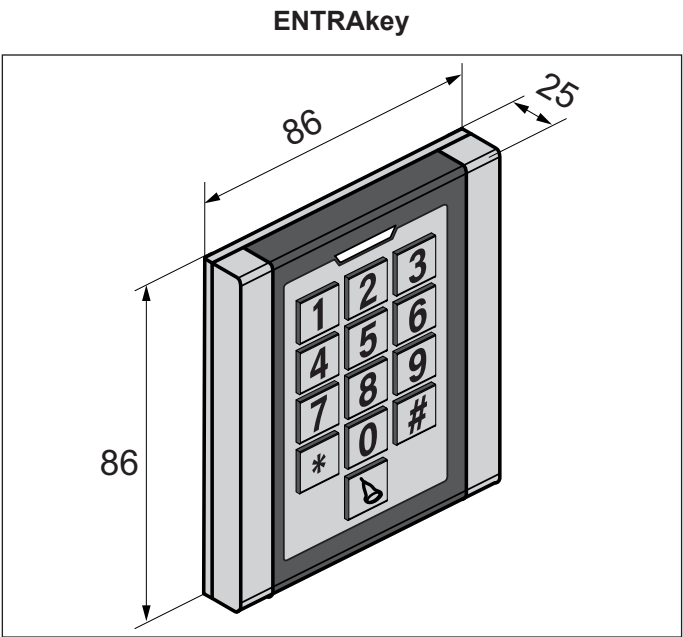


1. Press button for uncoded radio command.



2. Radio command is sent to radio receiver.

3.5 Dimensions



3. Description of function and product

3.6 Technical Data

ENTRAkey		
Battery	1 x CR2450 (3V)	
Battery life	Approx. 4 years	
Operating temperature range	- 10 °C ... 50°C	
IP protection class	IP65	
Radio control system	SOMloq2	
Radio frequency	S14150	922.50 MHz
Radio range	40 m*	
Radio commands	3 (2× coded, 1× uncoded)	
Dimensions	86 x 86 x 25 mm	
Weight	430 g	

* Under optimum conditions

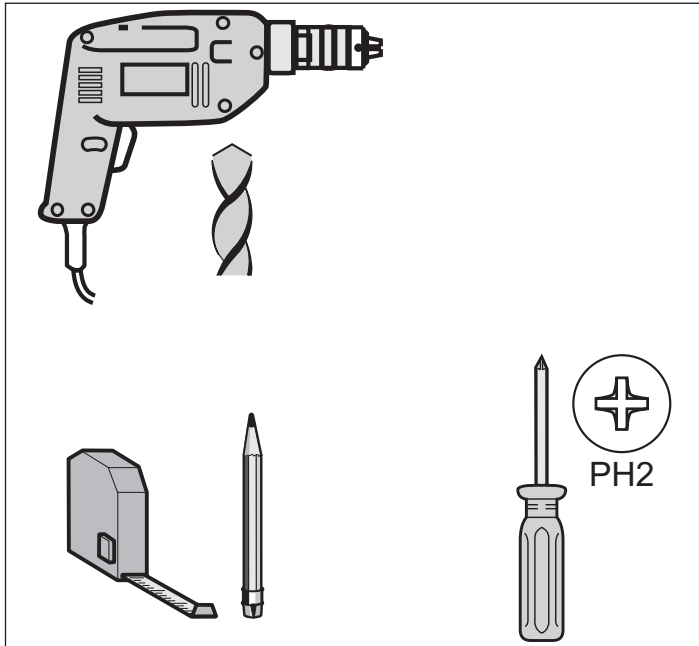
4. Tools and protective equipment

4.1 Required tools



NOTE

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



4.2 Personal protective equipment

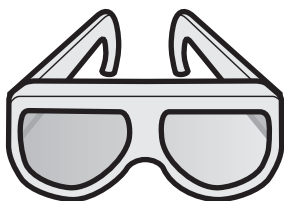


WARNING

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 ENTRaKey



WARNING

Risk of eye injury!

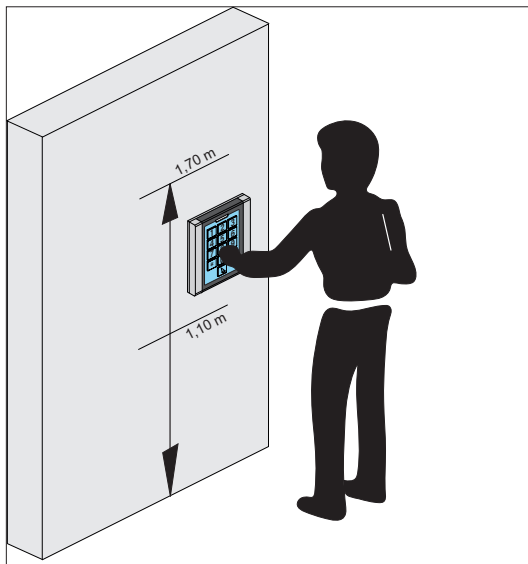
Chips flying when drilling may cause serious injuries to eyes and hands.

► Wear safety glasses when drilling.

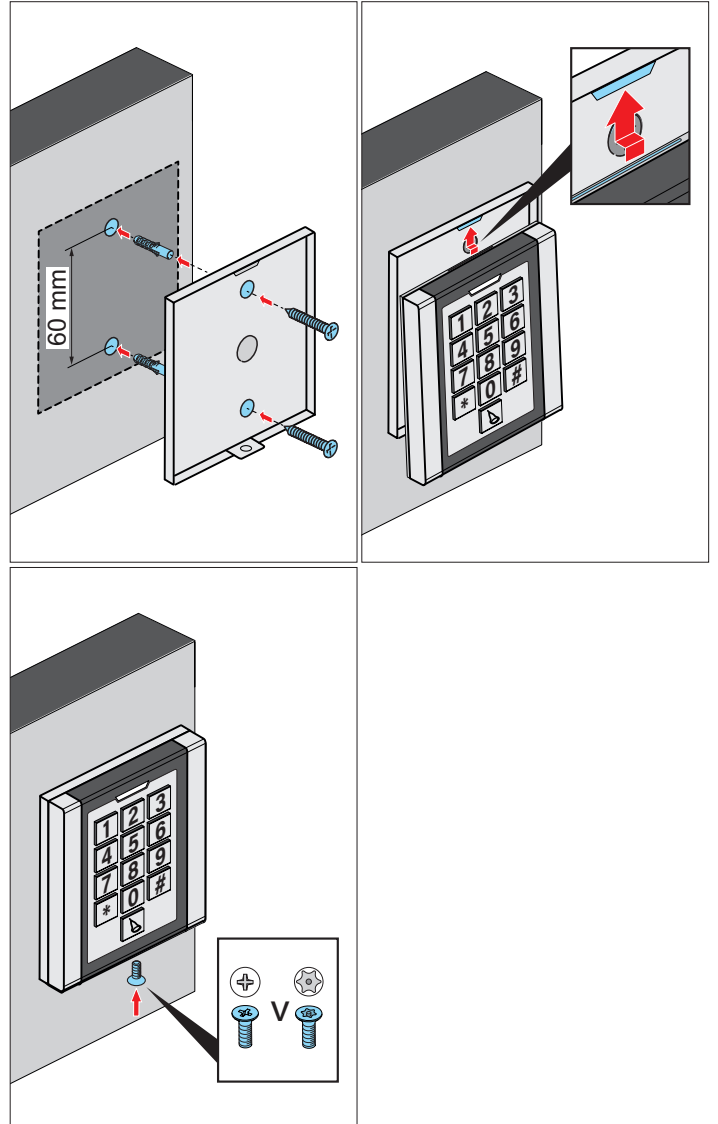


NOTE

► Observe the correct installation height for convenient operation of the ENTRaKey.



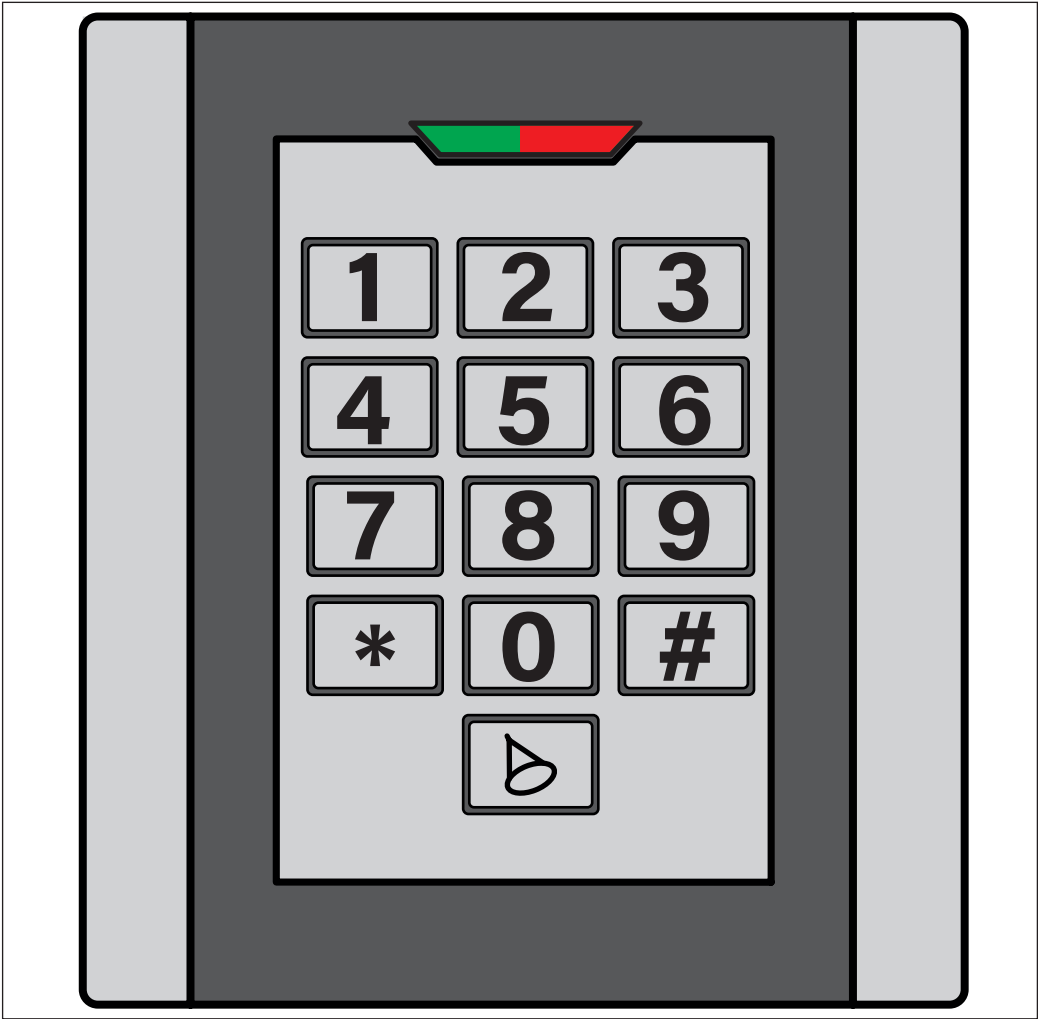
1. Open the package.
Check the entire contents against the scope of delivery, see Chapter **"3.3 Scope of delivery" on page 10**.



2. Drill the holes and attach the bottom housing section correctly.
3. Hook the top housing section into the bottom housing section.
4. Screw the two housing sections together using one of the countersunk screws provided.

6. Overview

6.1 The control element



Buttons	Function
 	Digits for entering a code
	Command 1
	Command 2
	Command 3 (non-codable)
	2-colour display element (green/red)

7. Display element

ENTRAkey status	LED		Signal tone
Valid entry	Lights up green		Beeps once
Invalid entry	Lights up red		Beeps quickly 4 times
Programming mode is opened	Blinks quickly in green and red		Beeps quickly 3 times
Programming mode is active	Blinks green at one-second intervals		OFF
Programming mode is closed	Blinks quickly in red		Beeps quickly 4 times
Memory error	Blinks red		Beeps once

8. Initial operation

8.1 Master code



NOTE



- ▶ Various processes require a master code.
- ▶ The factory-set master code is **1234**.
- ▶ For security reasons, the user must change the factory-set master code to an individual master code. See "Change master code" on page 18.

8.2 Access codes and radio commands



NOTE

- ▶ All access codes given in this manual merely serve as examples.
- ▶ The access codes are saved in the EN-TRAkey.
- ▶ Memory space for a total of 100 access codes is available.
- ▶ An access code consists of 2 - 6 digits.
- ▶ Each user can be assigned a separate access code.
- ▶ **Variant 1:** One access code can be used for both radio commands. The addition of * or # defines whether radio command 1 or 2 is sent.
- ▶ **Variant 2:** An access code can only be used for one radio command. The same radio command is sent, irrespective of whether you add * or #.
- ▶ **Variant 3:** It is also possible to send a radio command uncoded. The button with the bell symbol is provided for this purpose.



Variant 1

The user does not link the access code with a command during installation

⇒ After entering the access code, the user can select which command is to be sent.

Access code		Button	Radio command
1981	+	*	1
1981	+	#	2

Variant 2

A: The user linked the access code with a command during installation

⇒ The access code can only send the radio command defined by the user.

Access code		Button	Radio command
2008	+	*	1
2008	+	#	1
2022	+	*	2
2022	+	#	2

Variant 3

It is also possible to send an uncoded radio command.

Button	Radio command
	Radio command 3 is sent

8. Initial operation

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
- ▶ Backlighting and buzzer settings
- ▶ The factory-set master code is **1234**.
- ▶ For security reasons, the user must change the factory-set master code to an individual master code. See "Change master code" on page 18.

8.4 Activating programming mode



✓ Programming mode is now active.

Change master code

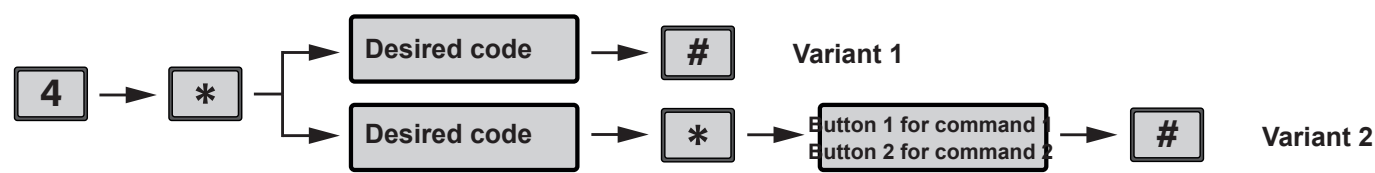
1. Open programming mode.
2. Enter the following:



✓ The master code has been successfully changed.

Add access codes

1. Open programming mode.
2. Enter the following:



✓ The code has been added.

Delete an individual access code



✓ The code has been deleted.

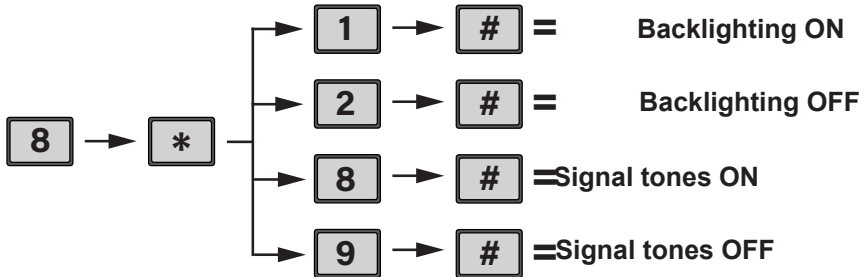
8. Initial operation

Delete all access codes



✓ All access codes have been deleted.

Backlighting and signal tone settings



Restore factory settings



✓ Factory settings have been restored.

Exit programming mode



✓ Programming mode has been terminated.

⇒ The device is ready for operation.

8. Initial operation

8.5 Programming the ENTRaKey on a radio receiver

NOTE

- ▶ Every radio command must be programmed on a radio receiver in order to control the desired application.
- ▶ 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.
- ▶ See the instructions for the receiver for further information.

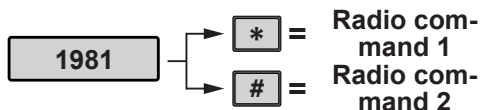


som4.me/man

Programming radio commands for Variant 1



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



2. Enter the previously installed access code and press the button for the desired application, * or #, to program the radio command.
 - ⇒ Observe reaction of the radio receiver as described in these instructions.
 - ⇒ Then test whether the radio command is carried out when the entry is repeated.

8. Initial operation

Programming radio commands for Variant 2



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

2008 → ***** / **#**

2. Enter the previously installed access code and press one of the buttons * or # to program the radio command.
 - ⇒ Observe reaction of the radio receiver as described in these instructions.
 - ⇒ Then test whether the radio command is carried out when the entry is repeated.

Programming radio commands for Variant 3



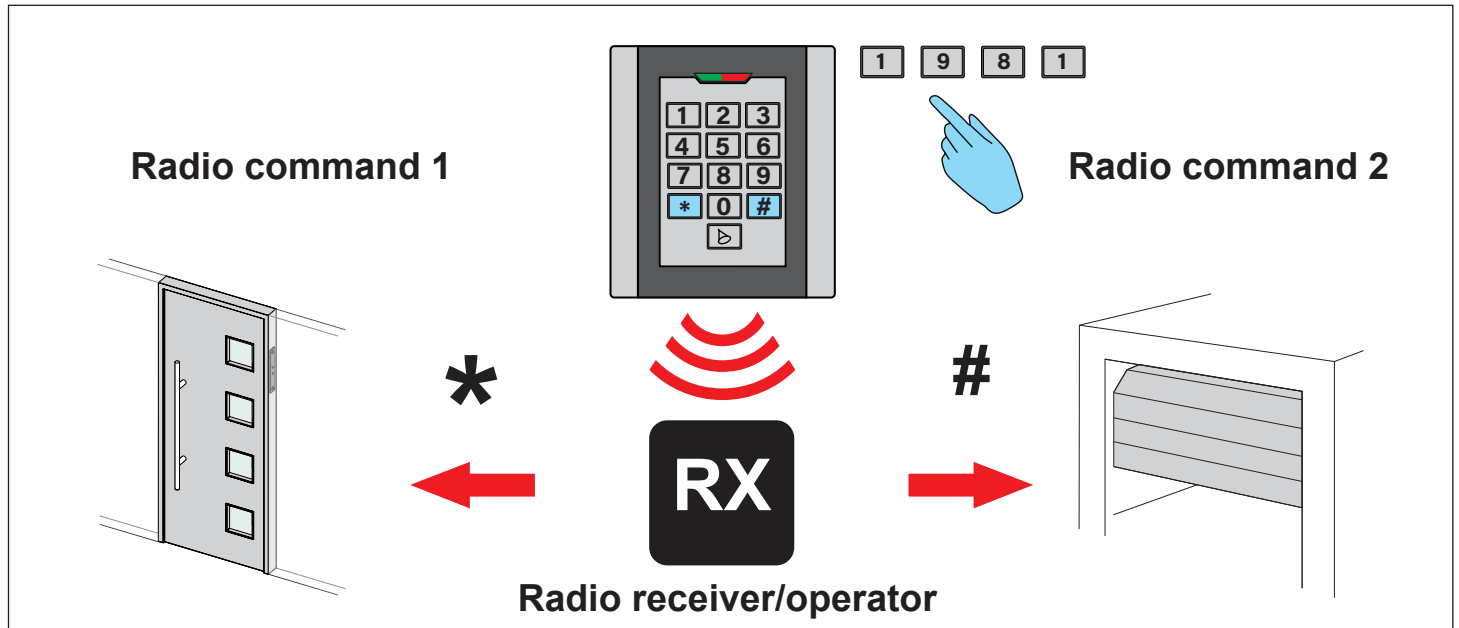
1. Set radio receiver of the desired application to programming mode.



2. Press the button to program the uncoded radio command.
 - ⇒ Observe reaction of the radio receiver as described in these instructions.
 - ⇒ Then test whether the radio command is carried out when the button is pressed again.
- ✓

9. Examples

9.1 Installing the ENTRaKey (complete sequence for Variant 1)



1. Activate programming mode.



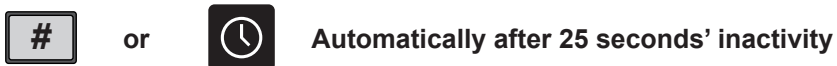
2. Add desired code.



⇒ The access code for this radio command is now **1981**.

⇒ After entering the access code, you can use the buttons * or # to define which radio command is to be sent, see "Entering access code without linking it to a radio command (Variant 1):" on page 24.

3. Exit programming mode

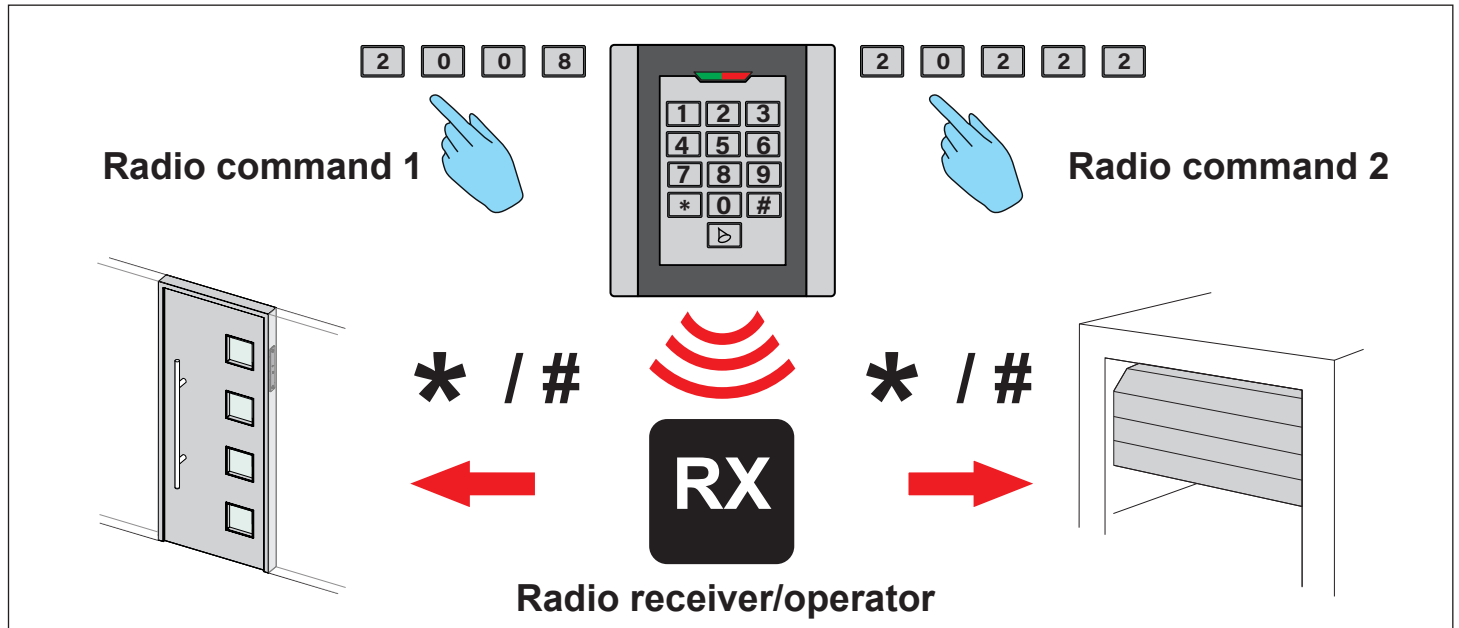


4. Programming on a radio receiver

✓ Installation has been completed.

9. Examples

9.2 Installing the ENTRaKey (complete sequence for Variant 2)



1. Activate programming mode.



2. Add desired code for radio command 1:



- ⇒ The access code for this radio command is now 2008.
- ⇒ The access code is linked to application 1.
- ⇒ The access code, together with * or #, is valid exclusively for application 1.

3. Desired code for radio command 2 (if required):



- ⇒ The access code for this radio command is now 2022.
- ⇒ The access code is linked to application 2.
- ⇒ The access code, together with * or #, is valid exclusively for application 2.

4. Exit programming mode.



5. Programming on a radio receiver

- ✓ Installation has been completed.

10. Operation

10.1 Operation

Entering access code without linking it to a radio command (Variant 1):

 → 

1. Enter access code.
2. Add * for radio command 1
✓ Radio command 1 is carried out.

or

 → 

1. Enter access code.
2. Add # for radio command 2
✓ Radio command 2 is carried out.

Entering access code linked to a radio command (Variant 2):

 →  / 

1. Enter access code.
2. Add * or #
✓ Radio command is carried out.

Carrying out an uncoded radio command (Variant 3):



1. Press button for uncoded radio command.
✓ Radio command is carried out.

11. Troubleshooting

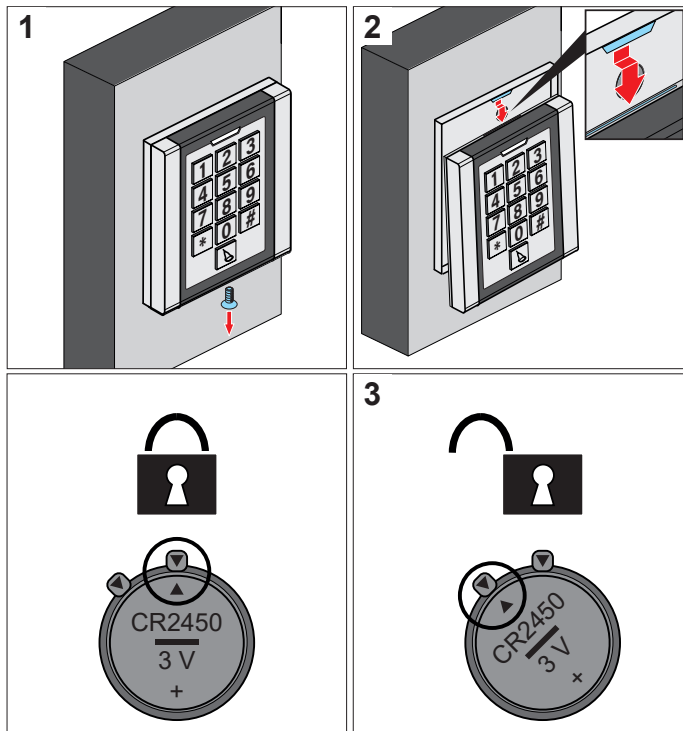
11.1 Replacing the battery



WARNING

Danger of hazardous substances!
This product contains button cells.

- ▶ If these button cells are swallowed, serious internal burns can occur within only two hours, and such burns are fatal.
- ▶ Keep new and used batteries out of reach for children.
- ▶ If the housing does not close securely, do not use the handheld transmitter and make sure it is inaccessible to children.
- ▶ Seek medical help immediately if there is a chance that a battery has been swallowed or inserted into any other orifice.
- ▶ Do not open or recharge the battery or allow it to come into contact with water, fire or high temperatures.
- ▶ Risk of explosion through use of incorrect battery. There is a risk of explosion if a battery is replaced with a battery of the wrong type.
- ▶ Old batteries, old accumulators and individual components of the device must be disposed of correctly, in accordance with the locally applicable regulations, and not with household waste.



1. Open the housing by releasing the countersunk screw.
2. Remove the top housing section.
3. Open the battery compartment on the rear side of the top housing section, e.g. using a coin.
4. Replace the spent battery with a new one.
5. Reassemble in reverse order.
 - ⇒ When closing the battery compartment, make sure that the sealing ring is inserted correctly.
6. Dispose of the spent battery correctly.

11. Troubleshooting

11.2 Troubleshooting



NOTE

If faults occur which cannot be remedied by reprogramming or by restoring the factory settings, please contact your specialist retailer.

- ▶ If the device 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 25.**

12. Taking out of operation, storage and disposal

12.1 Taking out of operation



WARNING

Danger arising from deployment of insufficiently qualified personnel!

- ▶ 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.

12.2 Storage

Store the device 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.

Disassembly of the ENTRaKey is carried out in reverse order of installation. See "5.1 Installing the ENTRaKey" on page 14

12. Taking out of operation, storage and disposal

12.3 Disposal

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



WARNING

Danger caused by hazardous substances!

Improper storage, use or disposal of accumulators, batteries and operator components pose a risk to the health of humans and animals. Serious injury or death may result.

- ▶ Accumulators and batteries must be stored out of the reach of children and animals.
- ▶ Keep accumulators and batteries away from chemical, mechanical and thermal influences.
- ▶ Batteries may contain hazardous chemical substance which damage the environment and pose a risk to the health of humans and animals. Caution must be exercised, in particular when handling batteries containing lithium, as these can easily ignite and cause fires if not handled correctly.
- ▶ Batteries and accumulators in electrical appliances and which can be removed non-destructively must be disposed of separate from the appliance.



NOTE

- ▶ Dispose of all components in accordance with local and national regulations to avoid environmental damage.
- ▶ Wherever possible, avoid the production of waste. Please check before disposing of components whether it is possible to recycle them.



INFORMATION

This device is labelled in accordance with European Directive 2012/19/EU on used electrical and electronic devices (WEEE – waste electrical and electronic equipment).

This Directive provides the framework for the EU-wide return and recycling of used equipment.

Operator components that have been taken out of service as well as old accumulators and batteries must not be disposed of with household waste. Components which are no longer in use, old accumulators and batteries must be disposed of properly. You must observe the local and national regulations here. Contact your specialist retailer to find out more about current disposal channels.



FR

**Cet appareil
et ses piles
se recyclent**

**À DÉPOSER
EN MAGASIN**



OU

**À DÉPOSER
EN DÉCHÈTERIE**



Points de collecte sur www.quefairedemesdechets.fr
Privilégiez la réparation ou le don de votre appareil !

13. FCC informations

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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