

CX6162/66

Clex prime
Compact electronic knob cylinder



Operating and
assembly manual

Imprint

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Electronic knob cylinder CX6162/66

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1 About this document

This operating and assembly manual describes the Clex prime compact electronic knob cylinder (in short: CX616x¹). It is part of the product and contains important information that is necessary for proper operation and maintenance.

This operating and assembly manual is valid for all versions of CX616x and is intended for technicians responsible for assembling and disassembling, as well as for end customers.

- ▶ Read this operating and assembly manual carefully for smooth and safe operation and follow the instructions given in it before operating the knob cylinder.
- ▶ Keep the operating and assembly manual in a safe place.
- ▶ After the installation, hand over the manual to the end customer and make sure that the customer familiar with its use.

Uhlmann & Zacher GmbH does not assume any responsibility for disruptions or hazards such as non-access to injured personnel, malfunctions, property damage or other damages resulting from non-compliance with this operating and assembly manual or incorrectly configured knob cylinder.

- ▶ If there are still any doubts after reading this operating and assembly manual, please contact your respective dealer or Uhlmann & Zacher GmbH directly.

1.1 Warnings

Warnings warn against hazards which may arise when using the knob cylinder. There are two levels of warnings that can be identified based on the signal word:

Signal word	Meaning
CAUTION	Indicates a hazard with a low risk that can lead to mild or moderate injury if not avoided.
ATTENTION	Indicates a hazard that results in property damage.

1.2 Symbols

The following symbols may be used in this manual:

- ▶ This symbols indicates a usage instruction that must be followed by the user.
- This symbol indicates an entry in a list.



This symbol indicates useful and important information.

¹ The name CX616x is used interchangeably for the products CX6160, CX6162 and CX6166 in this manual.

2 Security

2.1 Proper use

The electronic knob cylinder CX616x is intended for installation in building doors and for locking and unlocking doors. They need to be equipped with a DIN lock for Euro profile cylinders. The CX616x locking cylinder can be used indoors as well as outdoors (depending on the product version).

The assembly should be carried out only by trained technicians. Only the components approved by Uhlmann & Zacher should be used for installation and maintenance.

Any other use is considered as improper and may result in damage to material or even in physical injury.

2.2 Improper use

The CX616x should not be used for locking up people or animals as well as supplies required in case of emergencies (for example defibrillator, emergency medication, fire extinguishers, etc.).

The CX616x should not be used in potentially explosive surroundings.

Specially approved versions that are intended for the purpose should be installed and used in fire, smoke resistant doors and emergency exit locks. The applicable regulations should be followed.

The CX616x should not be used if the housing or the electronics is damaged. Changes or retrofits to the product are not allowed. The knob module should not be used outside the given specifications.

The knob module should not be used in doors that do not open freely or in doors or lock cases that are damaged. The door should not be opened using the knob module. The knob module should not be used as a stopper against obstacles.

2.3 General safety instructions

Follow these basic safety instructions when using the knob cylinder:

- ▶ Installation and battery replacement should only be done by qualified technicians according to the instructions in this operating and assembly manual.
- ▶ Do not use the knob cylinder in potentially explosive areas.
- ▶ Do not make any kind of modifications to the knob cylinder, with the exception of those described in this operating and assembly manual.
- ▶ Do not apply paints or acids to the knob cylinder.
- ▶ Do not heat the knob cylinder and battery beyond the specified storage temperature.
- ▶ Use only original spare parts and accessories from Uhlmann & Zacher to prevent malfunctions and damages.
- ▶ Only use batteries procured from Uhlmann & Zacher.

3 Product description

3.1 Functional description

The electronic knob cylinder CX616x is a Clex prime system product. The reading unit, the communication electronics, the mechanical system and power supply, are integrated within the knob module.

Different transponder carriers can be used as key in the CX616x, for example, ISO card or key fob.

CX616x has the following system properties:

- Up to 60,000 key/locking authorizations can be stored
- Up to 512 events can be recorded in the knob cylinder
- Up to 32 holidays can be configured
- Automatic summer and winter time changeover
- 5,296 locking groups
- Permanent engagement possible without additional power consumption
- Up to 20 time circuits can be programmed for daily activation (automatic permanent engagement)
- Engagement time can be programmed from 1 to 15 seconds
- Can be connected to the IDS module CX6934
- Pre-configured by default for 868 MHz wireless networking
- No cabling required
- Can be combined with other systems (for example Clex private)
- Versions for MIFARE® and LEGIC® Transponder can be supplied

3.1.1 Authorisations

Groupauthorisations

There are up to 296 groups in the Clex prime locking system. If the knob cylinder is a member of one or more of these groups, then all those keys that are also members of this group are authorized to open the knob cylinder - provided the key authorizations are not restricted by time zone settings.

Extra groups-authorisations

In addition to the normal groups, there are 5000 other groups in the Clex prime locking system. Each key can be a member of up to 16 of these other groups.

Individual authorisations

An individual authorisation entitles a key to operate one knob cylinder. Depending on the type of key (writable, not writable), the individual authorizations are either stored on the key (up to 16 individual authorizations per key) or in the knob cylinder (up to 60,000 individual authorizations).

Toggle authorisation (permanent engagement)

Keys with toggle authorization can permanently engage a knob cylinder, hence the door can be opened even without a key.

Four-Eyes-Group The four-eyes group is used to operate a knob cylinder only when two different keys are held up, out of which one should be a member of the four eyes group and the other should have normal authorization for the knob cylinder. Which group is defined as the four-eyes group can be configured for each knob cylinder.

Intrusion detection system (IDS) group In combination with a CX6934 IDS module, the knob cylinder can be used to enable and disable the intrusion detection system (IDS). To do this it is necessary to define a group (IDS group) in the knob cylinder that is authorized to enable / disable the IDS.

In addition, a firefighters group can be defined, which is always authorized to open the door regardless of the status of the intrusion detection system. In contrast to the group access rights of the fire brigade, the switching status of the intrusion detection system is first queried for all the other group access rights before granting the access right.

3.1.2 Time zones

You can restrict the locking access right in terms of time by using a time zone. The time restriction along with the locking authorizations are programmed in the key in the Clex prime system.

The following time restrictions are possible:

- Total interval
- Day interval
- Weekly schedule
- Holidays
- Special time zones



For detailed information on the different time zones, please refer to the Keyvi software manual.

3.1.3 Automatic expiry date

Using the automatic expiry date, it is possible to restrict the validity of a key regardless of the time zones applicable for the key.



For detailed information on the automatic expiry date, please refer to the Keyvi software manual.

3.1.4 Radio network

If a corresponding radio network is installed in the building, then the knob cylinder CX616x can be integrated with this network. The following functions can be then be executed via radio:

- Programming access rights
- Changing access rights
- Configuring time zones / timer circuits
- Reading event log
- Engaging the knob cylinder (for the duration defined by locking time)
- Viewing battery and maintenance messages
- Reading the battery value
- FW update

3.1.5 Key feedback

Even for knob cylinders operated offline, there is an option to send the battery status of the knob cylinders to the Keyvi management software. To do this, the battery status of the 16 most recently operated locking units is stored on the key.

The battery status information is sent to Keyvi and deleted from the key if the key is read by an automatic programming terminal or a programming station. A prerequisite is that the key should have been prepared for writing the information and the option *Key feedback* should be set in the knob cylinder.

Key Feedback can only be used with the transponder types MIFARE[®] and LEGIC[®] advant.

3.1.6 Battery management

The electronic knob cylinder CX616x comes with a battery management system, which indicates the need for battery replacement by means of a visible and audio signal, when the battery power reduces (capacity loss) during the final 1,000 operations of the battery (see chapter 7.2.17.2.1 Battery Replacement).

Signalling happens in 3 phases:

- Phase 1** The battery needs to be changed soon.
If an authorised key is held in front of the reading unit, then the engaging of the knob cylinder is accompanied with flashing of red light (5 times) and 5 short audible signals.
- Phase 2** The battery needs to be changed.
If an authorized key is held in front of the reading unit, then the red LEDs flash (5 times) accompanied by 5 short audible signals. The engaging of the knob cylinder is delayed by 5 seconds, during which time the green LEDs flash.
- Phase 3** The battery needs to be changed immediately.
If an authorised key is held in front of the knob cylinder, the locking authorisation is no longer issued. The knob cylinder flashes 5 times in red accompanied by 5 short beeps.

The access data, the events log, the settings of the knob cylinder and the time are stored on non-volatile memory and thus retained even when there is no power supply, for example, when changing the battery or if the battery discharges completely. The time is written to the non-volatile memory once every 30 minutes. If the power supply remains off, then the clock comes to a standstill after a few seconds and starts running from the last stored value onwards after the power supply is restored.

3.1.7 Event log

The last 512 events of the knob cylinder are stored in the event log.

The following events are logged:

- Unauthorised
- Authorised
- Service opening
- Timer circuit open
- Timer circuit closed
- Reset
- Summer time On
- Summer time Off
- Coupling error
- Battery Ok
- Battery weak Phase 1:
- Battery weak Phase 2:
- Battery weak Phase 3:
- Manipulation
- Toggle off
- Toggle On
- Unknown position
- Service mode
- Radio diagnosis
- Automatic wake up off
- Wireless opening not OK
- Wireless opening OK

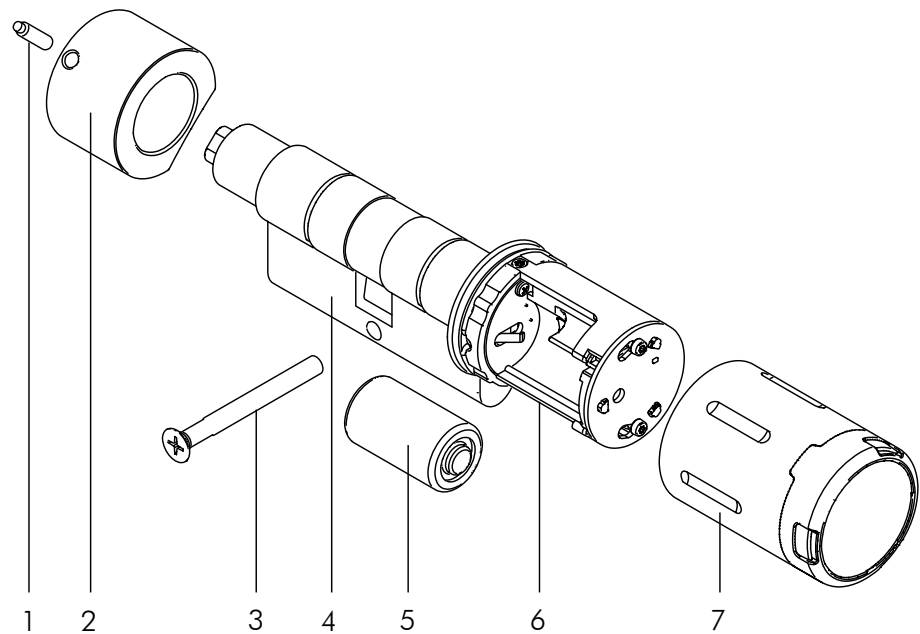
The following information are recorded for every event: Event code, date, time, key code if necessary.

Event logging can be enabled or disabled for each knob cylinder individually, to comply with specific data privacy guidelines.

The event log can be read using the service unit CX6510 or using ClexTouch CX6522. If the knob cylinder is located in a Keyvi radio network, it can also be read via radio.

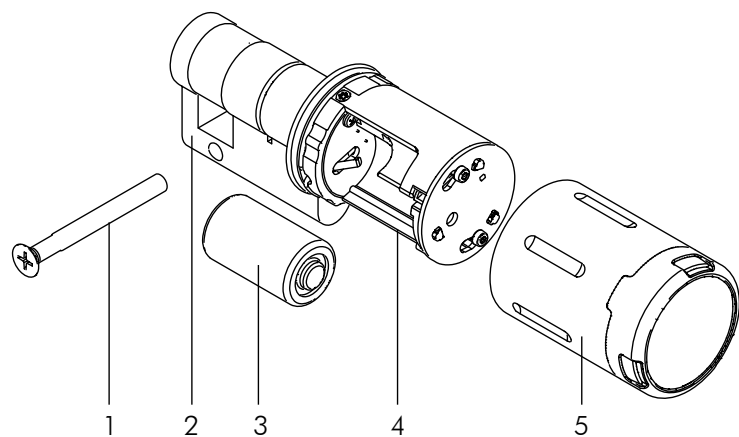
3.2 Construction and scope of supply

3.2.1 CX6162



- | | | | |
|---|-----------------|---|-----------------|
| 1 | Grub screw | 5 | Battery |
| 2 | Mechanical knob | 6 | Electronic knob |
| 3 | Fixing screw | 7 | Knob cover |
| 4 | Cylinder casing | | |

3.2.2 CX6166



- | | | | |
|---|----------------------|---|-----------------|
| 1 | Fixing screw | 4 | Electronic knob |
| 2 | Half cylinder casing | 5 | Knob cover |
| 3 | Battery | | |

3.3 Variants

Different variants of the electronic knob cylinder are available for selection:

- For indoor or outdoor use
- Various cylinder casing lengths
- Basic version without date/time and event memory

3.4 Technical data

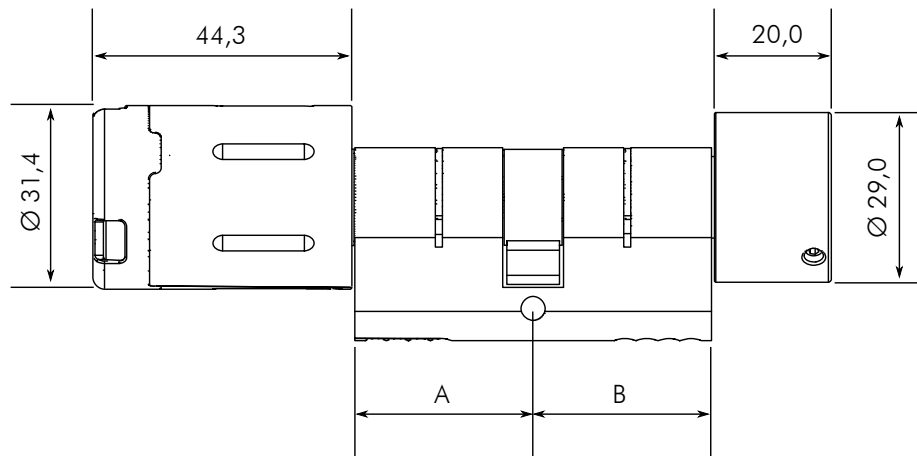
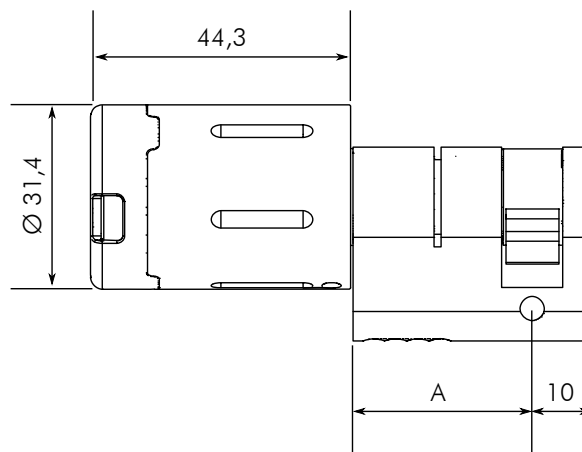
3.4.1 General technical data

Name	Value
Dimensions of the cylinder	For Europrofil locks conforming to DIN 18252
Cylinder lengths CX6162	From 26/26 mm or 30/30 mm to 200/200 mm in steps of 5 mm; Larger sizes are available upon request
Cylinder lengths CX6166	From 30/10 mm 200/10 mm in 5-mm steps; over-sizes available upon request
Length of the electronic knob	44.3 mm
Diameter of the electronic knob	31.4 mm
Length of the mechanical knob	20.0mm
Diameter of the mechanical knob	29.0mm
Transponder	Version 1: MIFARE® MIFARE® Classic, MIFARE® DESFire®, Active transponder (868MHz) Version 2: LEGIC® LEGIC® prime, LEGIC® advant, MIFARE® DESFire®, Active transponder (868 MHz)
Power supply, Nominal voltage	Battery CR2 3V (1 units), 3 Volt
Battery life	MIFARE®: up to 60,000 operations or 5.7 years LEGIC®: up to 50,000 operations or 8.6 years

3.4.2 Ambient conditions

Name	Value
Operating temperature	+5°C to +55°C (indoor version) -25°C to +65°C (outdoor version)
Storage temperature	-40°C to +65°C
Installation location	Inside or outside (depending on the product model)
Protection class	IP55 (indoor version) IP66 (outdoor version)

3.4.3 Dimensions

CX6162**CX6166**

3.5 Standards

The electronic knob cylinder CX616x meets the following standards:

- EN 15684:2013 (being prepared)
- EN 60529:2014 (being prepared)

3.6 Management accessories

The components of the Clex prime system described below are used to manage a Clex prime locking system.

3.6.1 CX6530 Keyvi management software

The locking system can be managed centrally and conveniently from the PC using the Keyvi management software for Clex prime. Even complex locking programs can be easily created, monitored and maintained using the software.

3.6.2 CX6510 Service device



The CX6510 service device is used for programming the locking system. Information can be exchanged between the Keyvi management software and locking units using the service unit. The information includes, for example, authorizations, events or settings for the locking units. If EM and HITAG1 keys are also used with the locking system, then these keys can also be programmed using the service unit.

3.6.3 CX6522 ClexTouch



ClexTouch is software that runs on handheld computers or laptops with Windows. It can be used to conveniently configure the locking system and (along with a corresponding wireless USB stick) and the relevant data can be sent directly to all the locking system components of Clex prime that are provided with a radio chip.

3.6.4 CX6520 Programming station



The programming station is an optional addition to the Keyvi management software and the CX6510 service device in order to conveniently program the key. In conjunction with MIFARE® or LEGIC® transponders, the programming station is always required to program the key. The programming station is connected to the PC using a USB cable.

3.6.5 Special keys

Service key

Using the service key, a user identifies himself as an administrator of the locking system. If this key is held in front of an electronic component of the locking system, then the respective component goes into service mode, where it is possible, for example, to create or change authorisations, make settings or to read the event log.

Sub-service keys

A sub-service puts an already personalized locking unit into service mode. These sub-service keys have authorization only for certain areas or for specific times (for example, for a locking system with several houses and individual management).



Sub-service keys cannot be used to customise brand new locking units for the first time. Only existing customised locking system units can be set to the service mode.

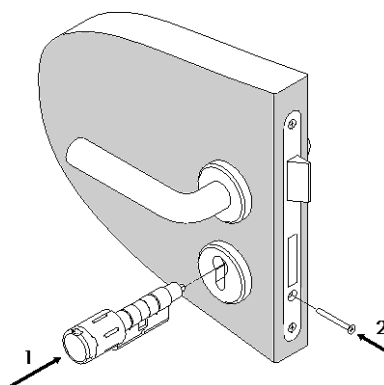
4 Assembly

4.1 General assembly instructions

- Before assembling the CX616x knob cylinder in a fire/smoke-resistant door, please check the fire certification to ensure conformity.
- Carry out the assembly necessarily with the door open.
- Ensure that the latches or seals fitted to the door do not hinder the proper operation of the CX616x.
- Ensure that the knob cylinder does not protrude and prevent the door from swinging freely.
- Before assembling the knob cylinder, always check if the components can move freely.
- After assembly, check the function with the door open.

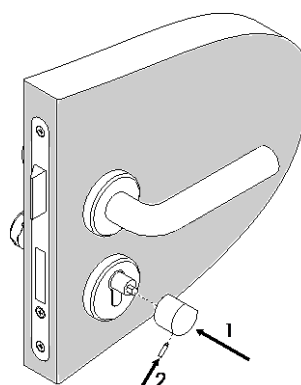
4.2 Assembly

- ▶ Insert the cylinder housing along with the electronic knob into the lock. Tighten the fixing screw by hand, do not use a battery-operated screwdriver with a high torque.



The cylinder body must not project outside its enclosing fitting by more than 1 to 3 mm, but it should not also be installed sunk in the upholstery.

- ▶ The mechanical knob is assembled to the end of the cylinder housing and secured using the grub screw. In the process, ensure that the axis of rotation, as well as the seating of the knob have a flat surface, both of which need to be flush with each other.



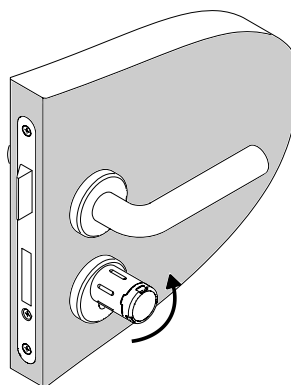
5 Commissioning

5.1 Initial commissioning

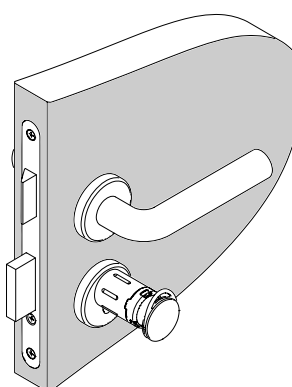
To protect the battery from discharging during transport, the CX6162/66 is kept in transport mode till the initial commissioning. There are two options of changing over to the normal operating mode.

Option 1)

- ▶ Turn the knob a few times to wake up the reading unit, till an LED starts glowing.



- ▶ Hold up the key in front of the reading unit only after this.



Option 2)

- ▶ Remove the battery for at least 10 seconds and insert it again (see chapter 7.2.1 Replacing the battery, page 20).

Now you can continue with chapter 5.2 Managing the locking system.

5.2 Managing the locking system

The locking system can be managed using the Keyvi management software. Before a locking system component can be used, it has to be personalized and the settings have to be customized.

5.2.1 Personalization

Every door and key in the electronic locking system Clex prime should be known to the management software for the respective locking system for subsequent programming. This procedure is called customisation.

During customisation, the door or the knob cylinder installed inside is assigned a Door ID (D-ID) and the key is assigned a Key ID (K-ID) by the management software Keyvi.

5.2.2 Changing the settings

The following settings can be changed:

- Authorisations (see chapter 3.1.1 Authorisations, page 5)
- Time zones (see chapter 3.1.2 Time zones, page 6)
- Time

Engagement time (defines the time for which the knob cylinder remains engaged after holding up an authorised key, see chapter 6.2 Opening and locking the door., Page 18)

- Wake-up sensitivity (see chapter 6.1 Automatic wake up, page 17)
- Expiry date of a key (see chapter 3.1.3 Automatic expiry date, page 6)
- Radio response of the knob cylinder (wake-on-radio mode)

The authorisations have to be changed first in the Keyvi management software for the individual knob cylinders or groups of knob cylinders. The software consolidates these settings into tasks, which then need to be transferred first to the service unit or to ClexTouch. From there, they can be sent to the individual knob cylinders.

If the knob cylinder is located in a Keyvi radio network, then the transfer can also be done via radio.



For additional information refer to the documentation on CX6530 Keyvi management software, CX6510 service device, and CX6522 ClexTouch.

5.3 Configuring the knob cylinder

Precondition: Orders have been created in the Keyvi management software and sent to the service device or to ClexTouch.

- ▶ Hold the service key in front of the knob cylinder to switch the knob cylinder to the service mode.
- ▶ Using the service device or ClexTouch, send the respective order to the knob cylinder (see operating manual of CX6510 service device or that of CX6522 ClexTouch)

6 Operation

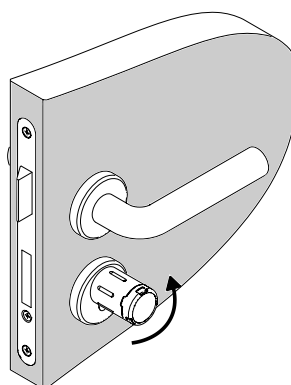
6.1 Automatic wake up

The knob cylinder is in sleep mode as long as it is not used. To check the authorization of a key, it needs to be woken up from the sleep mode. This normally happens automatically when a key is held in front of the reader unit.

If, however, the electronic knob cylinder has been woken up 24 times (for example by metallic objects in the surroundings) without reading a key, then automatic wake up is disabled.

In this case the knob cylinder has to be woken up manually.

- ▶ Turn the knob a few times to wake up the reading unit, till an LED starts glowing.



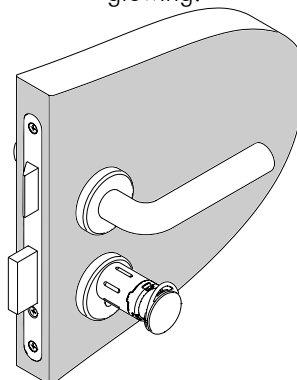
- ▶ Hold up the key in front of the reading unit only after this.

Automatic wake up is enabled once again by reading an authorized key, but it can also be enabled or disabled using the service unit CX6510.

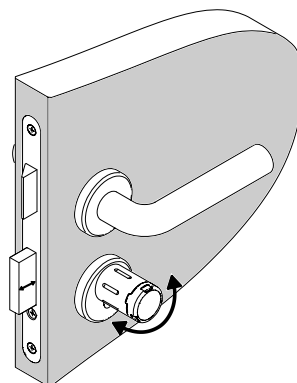
The wake up sensitivity (that is the number of times the knob cylinder needs to be turned to wake up the reading unit) can also be configured.

6.2 Opening and locking the door.

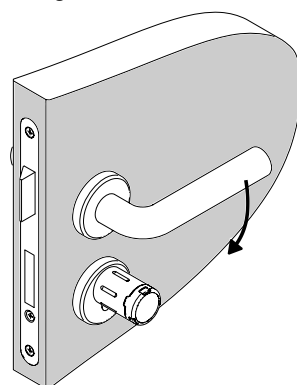
- ▶ Hold the authorised key in front of the reading unit till the green LED starts glowing.



- ▶ The knob module is now engaged and the door can be locked and unlocked by turning the electronic knob module.



- ▶ The door can be opened using the door handle in the unlocked state.













The time duration for which the knob cylinder remains engaged can be configured (1 to 15 seconds, the default value is 5 seconds). After successful authorization (engaging) at the knob, the engagement time countdown starts.

6.3 Toggling the knob cylinder

- ▶ Hold the key with toggle authorisation for a period of two locking cycles in front of the reading unit.

Depending on the initial state, the knob cylinder either engages or disengages permanently.

6.4 Signals

Function	Signal (audible and visible) and explanation
Rest mode	No audible or visible signal
Begin Service mode	 Two audible signals of increasing intensity but equal length
End Service mode	 Two audible signals of decreasing intensity but equal length
Read mode (after waking)	 Red LEDs start flashing
Key not authorised	 Long low beep, red LEDs start glowing
Key authorised	 Green LEDs start glowing
Timer circuit / toggling On	 Long loud beep, green LEDs start glowing
Timer circuit / toggling Off	 Long loud beep, red LEDs start glowing
Reset	 Long low beep, all the LEDs are switched on briefly one after the other
Battery warning Phase 1:	 5 short loud beeps, red LEDs flash 5 times simultaneously
Battery warning Phase 2:	 5 short loud beeps, red LEDs flash 5 times simultaneously, then 5 seconds engagement delay, green LEDs start flashing at the same time
Battery warning Phase 3:	 5 short loud beeps, red LEDs flash 5 times simultaneously, no engagement

7 Cleaning and maintenance

7.1 Cleaning

- ▶ Clean the knob cylinder only with dry or slightly damp cloth with a commercially available household cleaning agent.
- ▶ Do not use any abrasive or caustic cleaning agents.

7.2 Maintenance

7.2.1 Replacing the battery

⚠ CAUTION

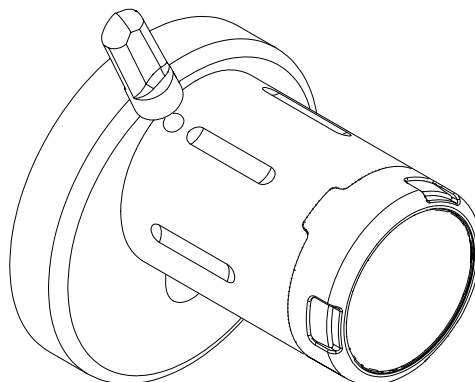
Danger of injury caused by improper use

- ▶ Do not charge, open or heat the battery.
- ▶ Always replace discharged batteries with new batteries.
- ▶ Pay attention to the correct polarity when inserting the batteries.

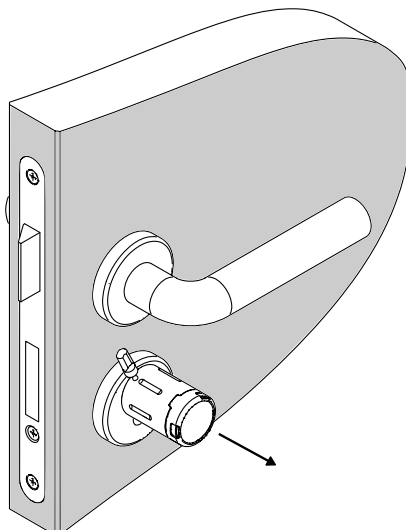


Change the battery only with the door open. As long as the battery is removed, the knob cylinder cannot engage and thus cannot open/close the door.

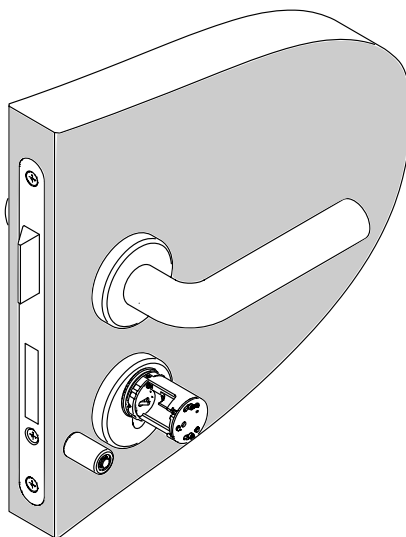
- ▶ Insert the battery removal tool in the spot marked on the knob cover.



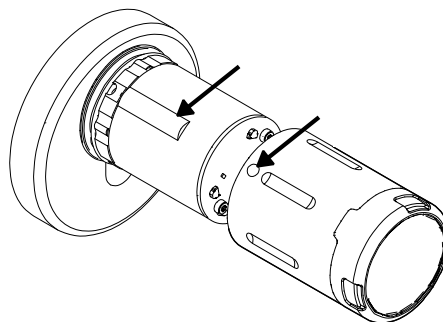
- ▶ With the battery removal tool in place, remove the knob cover.



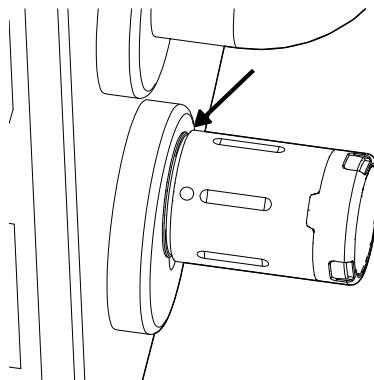
- ▶ Remove the used battery and insert the new battery, paying attention to the polarity.



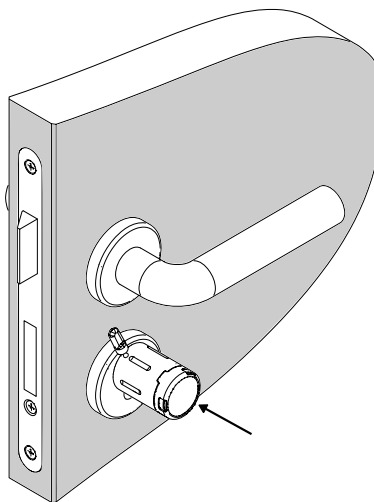
- ▶ Push the knob cover as far as it goes onto the knob, so that the marked spot on the knob cover aligns with the protruding plastic part on the knob.



- ▶ The knob cover has to be inserted such that only the rubber seal is visible. If this is not the case, hold the knob and turn the knob cover back and forth till the knob cover can be inserted up to the rubber ring.



- ▶ Insert the battery removal tool at the marking on the knob cover and push it together onto the knob as far as it goes. Remove the battery removal tool from the knob cover and check whether it is seated firmly on the knob by pulling the knob cover.



- ▶ Check the time of the knob cylinder using the service unit CX6510 or ClexTouch CX6522 and adjust if necessary.

7.2.2 Replacing the sealing ring

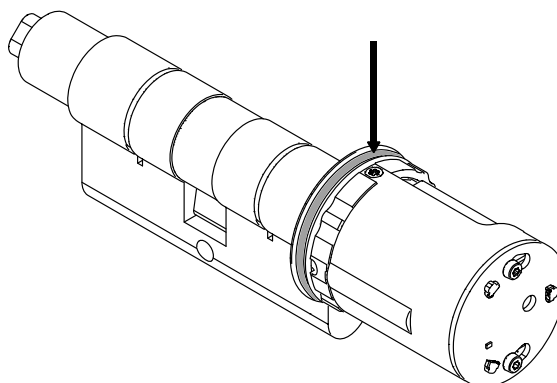
CAUTION

Damage to the sealing ring caused by improper handling

- Do not use any sharp objects and do not stretch the sealing ring more than what is required for mounting.

Precondition: Knob cover is removed (see chapter 7.2.1 Replacing the battery, Page 20)

- ▶ The sealing ring is visible once the knob cover is removed. It is located on the side facing the door.



- ▶ To remove the sealing ring, hold down the sealing ring on one side with the thumb and slide the finger nail of the middle finger on the opposite side. The sealing ring can now be grasped by the index finger.
- ▶ Insert a new sealing ring, which has to completely sit in the groove.

8 Faults during operation

8.1 Fault indications

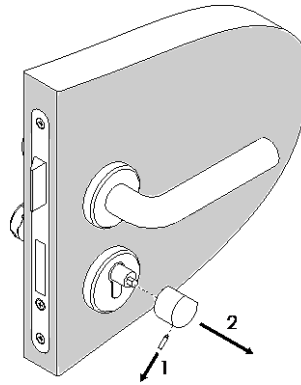
Function	Audible signal	Explanation
Memory fault / configuration fault	-----●	5 long beeps, 1 short beep
Coupling error	-----●●	5 long beeps, 2 short beeps
RTC fault (clock)	-----●●●	5 long beeps, 3 short beeps
Internal error (unhandled interrupt)	-----●●●●	5 long beeps, 4 short beeps
Internal error (bus conflict)	-----●●●●●	5 long beeps, 5 short beeps
Internal error (bus conflict)	-----●●●●●●	5 long beeps, 6 short beeps
Internal error (bus conflict)	-----●●●●●●●	5 long beeps, 7 short beeps

- ▶ If the faults mentioned above occur repeatedly, then please contact the concerned dealer.

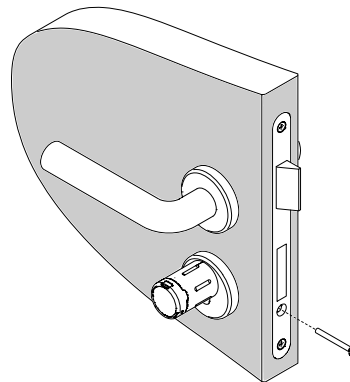
9 Disassembly and Disposal

9.1 Disassembly

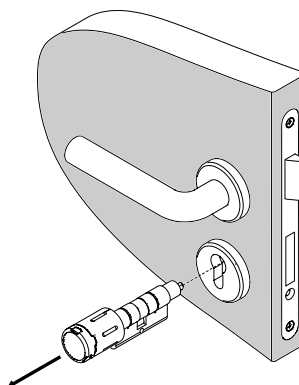
- ▶ Loosen the Allen screw of the mechanical knob and remove the mechanical knob from the cylinder.



- ▶ Remove the fixing screw.



- ▶ Remove the cylinder body and electronic knob from the lock.



9.2 Disposal



- ▶ Do not dispose of the knob cylinder with domestic waste. Disposal should be in accordance with the European Directive 2002/96/EC at a collection point for electrical waste.
- ▶ Defective or used batteries should be recycled in accordance with the European Directive 2006/66/EC.
- ▶ Follow the local regulations on separate disposal of batteries.
- ▶ Recycle the packaging in an eco-friendly manner.

10 Glossary

Definition	Description
ClexTouch	Software for Windows handheld computer for configuring a locking system
IDS	Intrusion Detection System (IDS)
Keyvi	Software for managing a locking system
LEGIC®	Technology for contactless transfer of identification data
MIFARE®	Technology for contactless transfer of identification data
Key	Data carrier that contains the authorization information. This can, for example, be an ISO card or a chip. The key is sometimes also known as transponder.
Service unit	Data can be exchanged between a PC having the Keyvi management software and the knob cylinder using the service device.
Service key	A special key with which you can identify yourself as the administrator of the locking system (see chapter 3.6.5 Special keys, Page 13)
Toggling	Permanently engaging a knob cylinder, so that the door can be opened without a key.
Transponder	See key
WoR	Wake-on-radio (radio response of a knob cylinder)