

eCLIQ



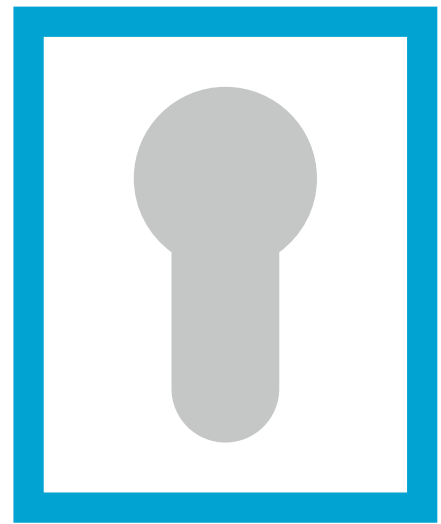
The key to electronic locking



IKON – the master key system specialist since 1926!

Experience a safer
and more open world

Our invention and expertise –
IKON is the original and has been shaping
developments in lock and security
technology for over 90 years.



Since inventing and patenting the profile cylinder more than 90 years ago, IKON locking cylinders have been setting standards in many countries throughout the world. When the patent was granted, it gave rise to the age of what is known as the security cylinder. This is a legacy which we are committed to and which we are proud of.

The profile locking cylinder is almost always used wherever doors are locked and need to be secured against unauthorised entry. Today, this cylinder represents the key component in lock and door security systems. We are still supplying keys and locking cylinders today for master key systems which were installed as far back as 90 years ago.



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*Implemented based on
customer preferences:
eCLIQ, a new generation of
electronic master key systems*

An IKON-brand master key system is always tailor-made – Planned by professionals and customised to your needs

A master key system is always a unique affair. No master key system is ever the same as any other. A multitude of different factors play a role starting right from the needs analysis and planning stage. Such factors include specific requirements, size and the structure and use of the building or system. Last but not least, the master key system must be open and flexible, so it can accommodate any future requirements.

Convenient software packages are available for planning and subsequent management of an electronic eCLIQ master key system. As you would expect, our certified CLIQ expert partners provide assistance throughout Germany. Regardless of individual requirement profiles, one thing is certain: you will always make the right choice with an IKON master key system. With eCLIQ, such a choice becomes something quite special.

ASSA ABLOY expertise partners for CLIQ will provide you with individual locking solutions for your building's structure and environment based on certified quality for customer consultation and service.



Questions you need to answer before the planning stage:

- *How is your building used?*
- *What is your organisational structure like?*
- *How strict are your security requirements?*
- *What other requirements need to be met regarding aspects such as insurance?*
- *Are frequent changes expected to aspects such as access authorisations and restructuring?*
- *How should you use your master key system?*

Master key system planning step by step:

- *Individual needs analysis*
- *Macrostructure design*
- *Creation of an organisational chart*
- *System checked and accepted by users, developers, architects and planners*
- *Creation of lock plan design*
- *Lock plan checked and accepted by users, developers, planners and architects*



eCLIQ – the completely new electronic master key system: An innovation with time-tested technology



The new eCLIQ electronic master key system is based on the time-tested CLIQ technology from ASSA ABLOY, used the world over. Building owners and users alike have been appreciating the benefits of mechatronic CLIQ systems for many years in both small and extensive, complex master key systems.

The core of the new, exclusively electronically coded eCLIQ master key system is its unique, innovative locking cylinder technology.

Thanks to its set-up and structure, the eCLIQ locking cylinder achieves an unprecedented level of compactness and flexibility.

Remarkably durable, the eCLIQ key is also a true innovation in an unusual, striking design. Fitted with a latest generation chip, the entire eCLIQ system is faster, more powerful, more secure and more energy-efficient than conventional master key systems.

A secure investment:
The eCLIQ electronic master key system impresses in many areas of use.

Only eCLIQ can offer such advantages.

The eCLIQ electronic system is a completely new development on the international market for master key systems.

This not only applies to its technology, but also its design and user convenience. Since many customer requirements from a wide range of industries were taken into account during the eCLIQ's development, the system is extremely user-oriented and offers numerous advantages down to the tiniest detail.

eCLIQ – perfect in every situation.

The eCLIQ system is generally suitable for designing master key systems of all sizes and in all types of buildings. Its specific features make it particularly beneficial for certain areas of use.

A few examples

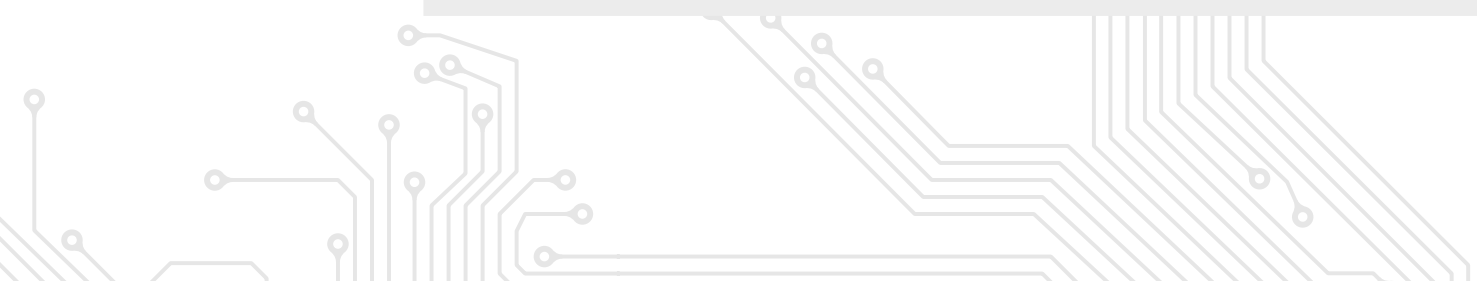
- **Supply, infrastructure and industrial enterprises:**

In addition to its flexibility, eCLIQ's robust design and long service life are particularly advantageous and cost-efficient.

- **Museums, galleries and events centres:**

It blends into design-accented doors and environments without protrusions thanks to the locking cylinder's compact design and the available lengths from 28 mm on each side.

- **Heavily used doors and key switches, such as those at car park entrances:** eCLIQ is particularly suitable in such cases thanks to the cylinder's durable design, maintenance-free for up to 200,000 cycles.



eCLIQ: the key to electronic locking

More secure, more efficient and longer-lasting than conventional locking systems

eCLIQ is an exclusively electronic master key system based on precision mechanical components and microelectronic modules containing ASSA ABLOY's CLIQ® technology. The microelectronics in the programmable, waterproof

key and the compact electronic locking cylinder ensure maximum security – reliably and with no complications. eCLIQ solves the problem of lost keys. Locking authorisations can be easily deleted since each key can be programmed individually.

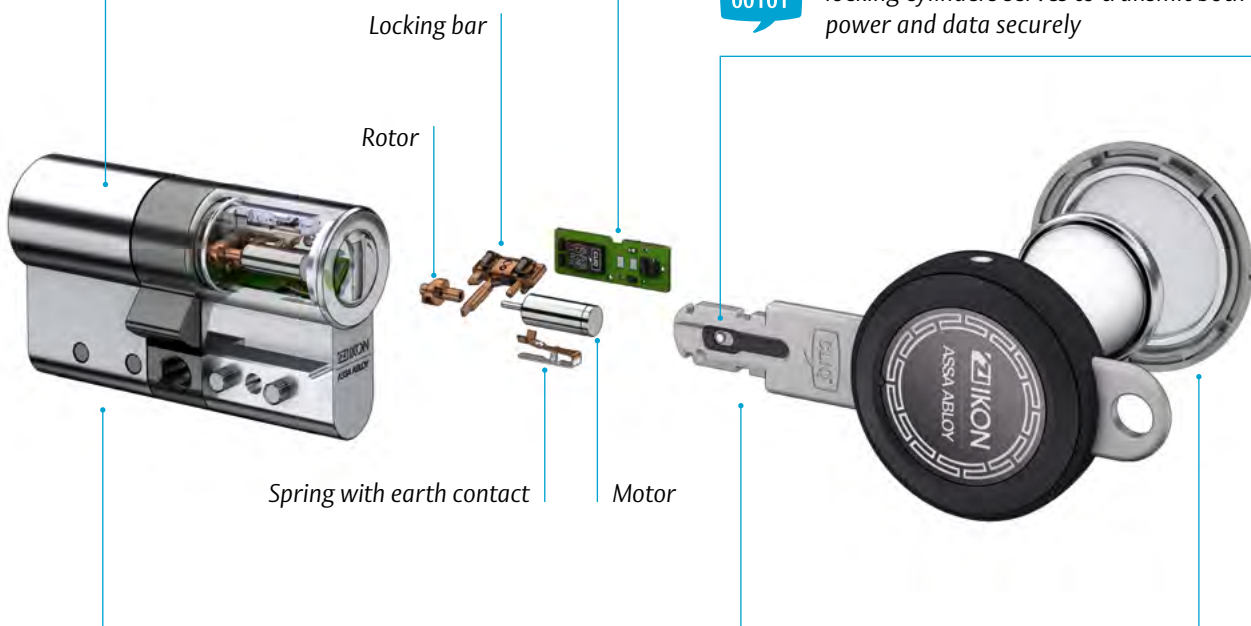


Simple, swift installation of cylinders with no wiring

New, future-oriented CLIQ® chip generation with AES encryption and fast processing speed with efficient energy management.



The electronic contact between keys and locking cylinders serves to transmit both power and data securely



Keys and cylinders can be programmed with flexible locking authorisations and schedules



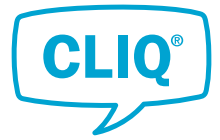
Waterproof and dust-proof key bow with battery and electronics board

Rapid replacement of the standard battery in the key without using any tools

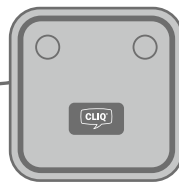


Management of the eCLIQ system

Maximum flexibility in issuing and blocking access authorisations



Locking authorisations and schedules for keys, doors and users managed using the software



The programming device transfers locking authorisations and receives event logs from keys

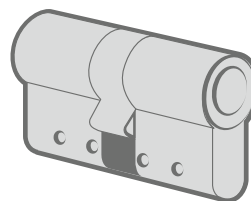
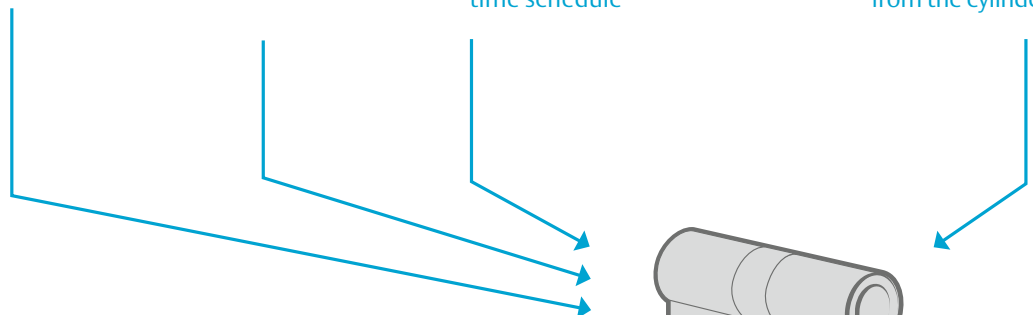


“Basic” user key
Unlimited locking authorisations

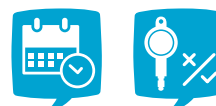
“Time” user key
Locking authorisations based on time schedule

“Remote” user key
Flexible issuing of locking authorisations based on time schedule

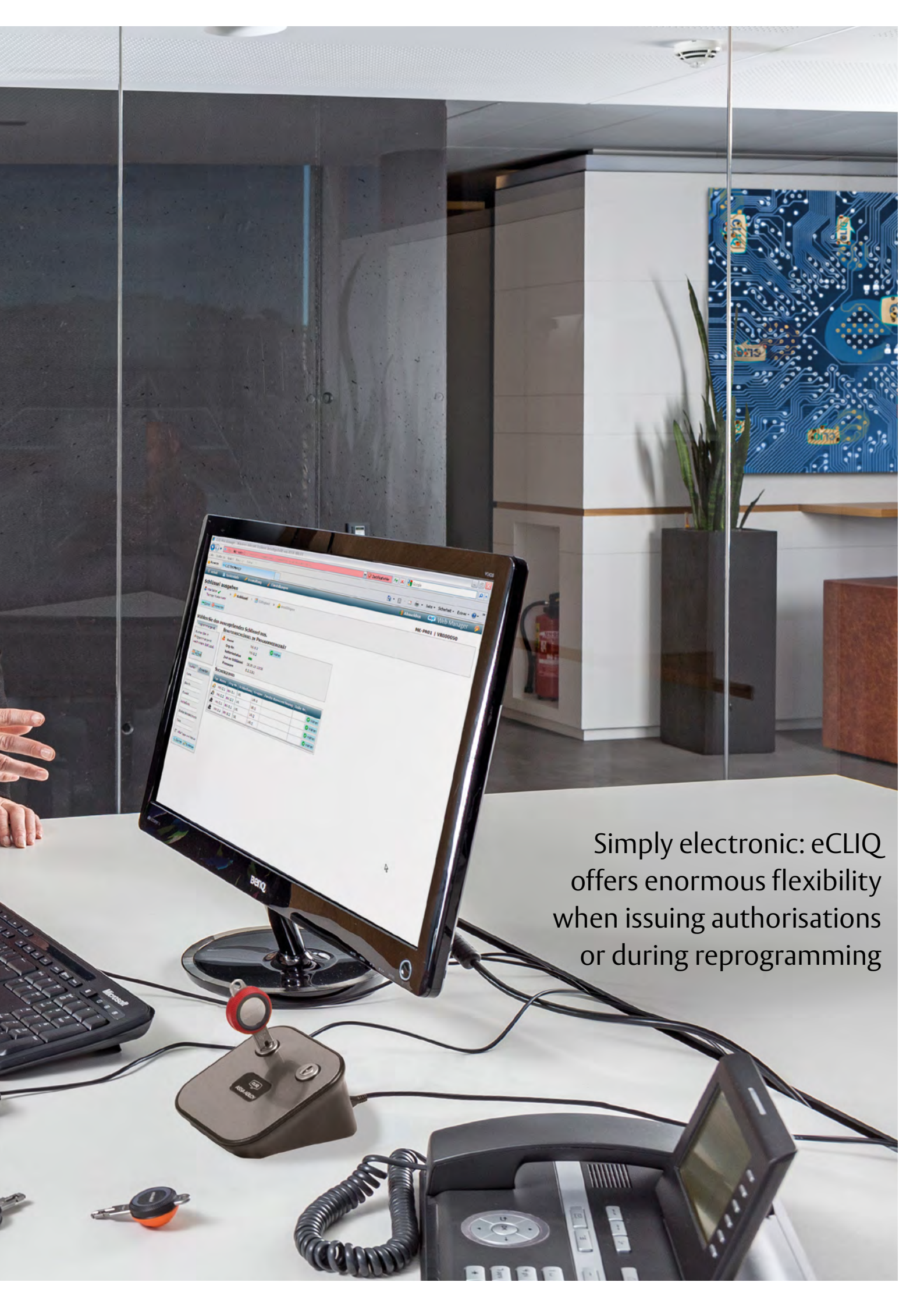
Programming key
Updates locking authorisations on the cylinder and receives event logs from the cylinder



Cylinder with microchip stores locking authorisations and event logs



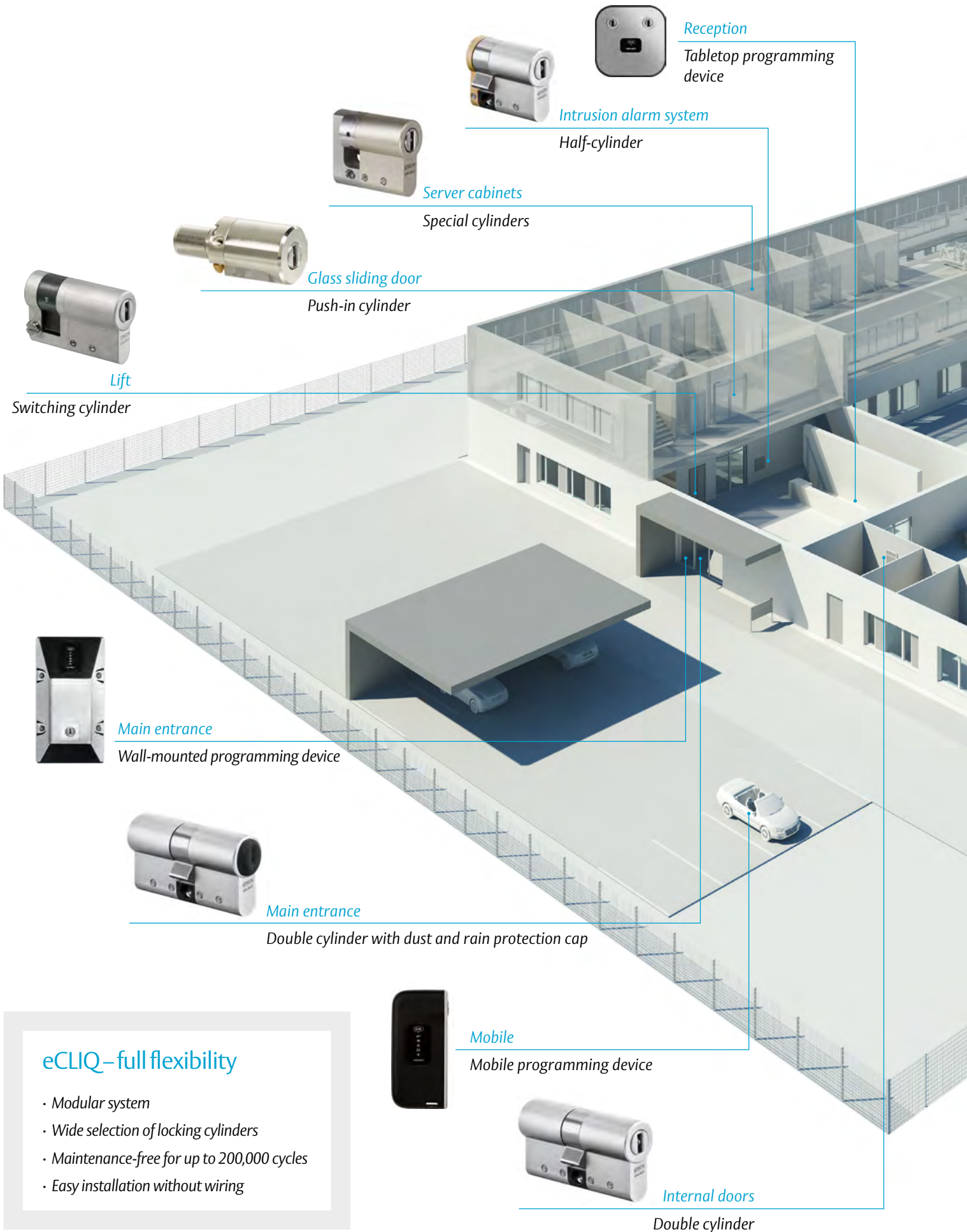




Simply electronic: eCLIQ offers enormous flexibility when issuing authorisations or during reprogramming

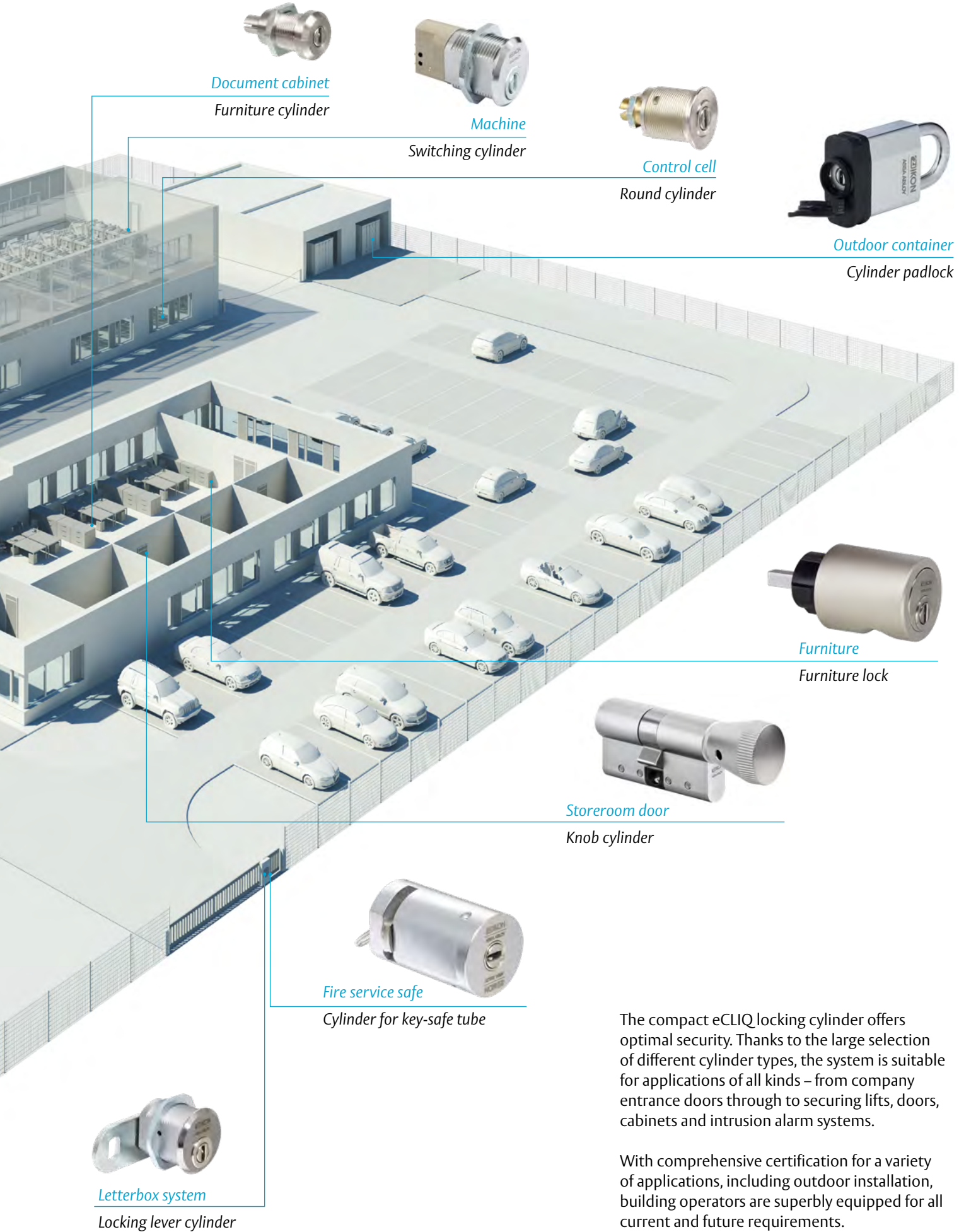
eCLIQ – perfect in every situation

Easy installation – no cables required



eCLIQ – full flexibility

- Modular system
- Wide selection of locking cylinders
- Maintenance-free for up to 200,000 cycles
- Easy installation without wiring



*Document cabinet
Furniture cylinder*

*Machine
Switching cylinder*

*Control cell
Round cylinder*

*Outdoor container
Cylinder padlock*

*Furniture
Furniture lock*

*Storeroom door
Knob cylinder*

*Fire service safe
Cylinder for key-safe tube*

*Letterbox system
Locking lever cylinder*

The compact eCLIQ locking cylinder offers optimal security. Thanks to the large selection of different cylinder types, the system is suitable for applications of all kinds – from company entrance doors through to securing lifts, doors, cabinets and intrusion alarm systems.

With comprehensive certification for a variety of applications, including outdoor installation, building operators are superbly equipped for all current and future requirements.

The eCLIQ master key system in action

Maximum flexibility and more security for companies

Personnel changes, temporary employment relationships and partnerships with other companies are standard business practices. Lost keys can easily fall into the wrong hands.

The eCLIQ master key system overcomes the difficulties associated with constantly changing access authorisations. With its optimal combination of flexibility, security and user convenience, eCLIQ is the logical solution.

Examples

Management while out and about



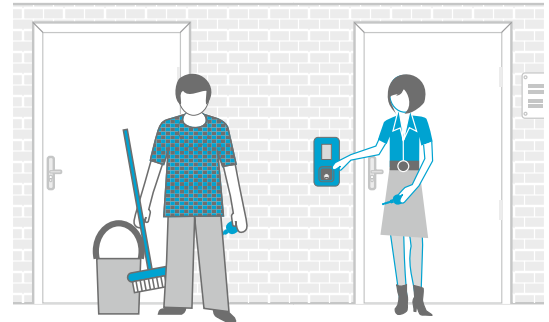
The administrator manages the system on CLIQ® Web Manager at any time and from anywhere. The only requirement is access to the Internet.

Management on site



The receptionist programs and controls the issuing and return of user keys (E3 remote) on CLIQ® Web Manager.

Employees on site



An "E3-remote" is issued to cleaning staff for doors with a low security category, for example, due to changing requirements and high staff turnover rates.

Employees regularly update the validity of their key (time and remote) via remote programming devices to minimise the risk of key loss.

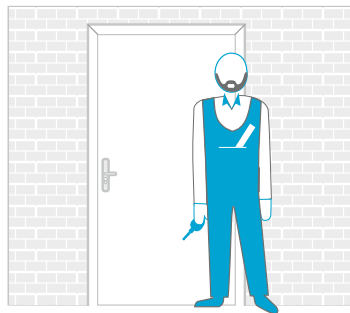
eCLIQ is longer-lasting, more secure and more efficient than conventional master key systems and protects properties of all types and sizes with flexible issuing of access authorisations.

Employee out and about

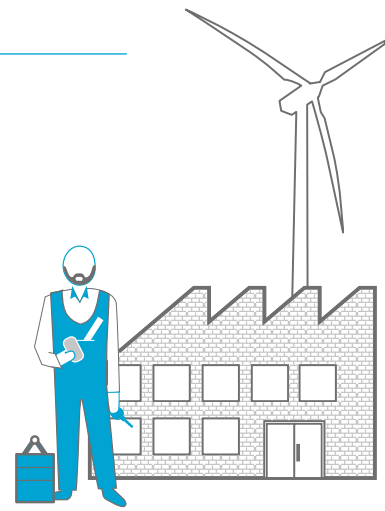


An employee is out on a job and needs new access authorisations immediately. The employee informs the administrator, who implements these changes using a mobile programming device.

Employee or contractor on site or out and about



Security personnel use CLIQ® Web Manager and the programming key in a different location to change access authorisations on the locking cylinders.



Users can receive temporary access authorisations with their keys (E3 remote) for other locations. These rights are issued using the mobile programming device and a mobile telephone.

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Eminently suitable for restricted-access areas: eCLIQ with the latest chip generation for optimum encryption and protection against tampering and electronic attacks

eCLIQ system components

Keys and cylinders

- Compact key design ensures stability and a long service life
- Reversible key: always fits no matter which way it is inserted into the cylinder
- Optical and acoustic signals for access authorisations, time zones and battery status
- Protected against temporary immersion in water (IP67)
- Available in three models (E1 basic, E2 time and E3 remote)
- Integrated standard battery (CR2032 lithium cell) for around 30,000 locking procedures (service life of around 3 years)
- No tools needed to change battery

Programming keys

The red programming key carries changes to authorisations and event logs between software and locking cylinder. It is also used for authorisation with use of the software.



User key E1, E2, E3

- E1 basic** for simple access authorisations
- E2 time** with temporary access authorisations and event logs
- E3 remote** with temporary access authorisations and event logs



CLIQConnect key

eCLIQ® Connect is a supplement to the eCLIQ solution and allows users to update keys anywhere at any time using an iOS or Android device. Users can use the CLIQ Connect app to securely update their access authorisations without an additional programming device. New rights are quickly and simply transmitted onto the eCLIQ key via Bluetooth®.



"Beluga" user key

Designed for outdoor use (-30 °C to +50 °C) – for example, storage in fire service safes.



"Ex" user key

User keys are optionally available for use in Zone 1 explosion-prone areas (II 2G EX IB IIB T4 Gb)

- Highly secure protection against tampering and intelligent attempted break-ins
- Integrated microchip to store access authorisations and event lists
- Use under challenging environmental conditions (temperature range: -25 °C to +85 °C)
- Maintenance-free up to 200,000 cycles (with integrated lubricant reserve)
- The central keyway and low core protrusion ensure problem-free installation in conjunction with security fittings and other locks
- Optional with extended drilling protection
- Comfort function for emergency key

Cylinders

The cylinder automatically checks all programmed access authorisations and rejects unauthorised keys.



Authorisation

1,000 memory cells for individual keys and groups (each containing over 65,000 keys)

Blocking functions

for up to 1,500 keys

Event memory

for up to 750 events

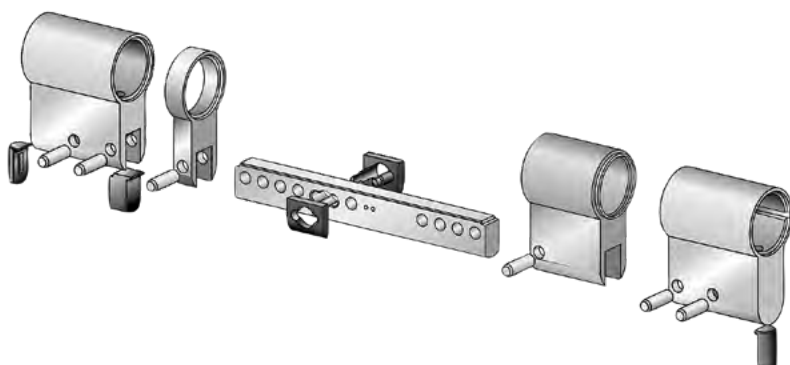
Optional dust and rain protection cap

External cylinders for all weather conditions, e.g. on radio masts. The cap ensures IP55 protection and is suitable for profile cylinders.



eCLIQ also available with transponder

Key with integrated RFID chip for integrating into transponder-based systems, e.g. EAC systems.



Flexible modular system

Euro profile cylinder in lengths starting from 28 mm per side. Standard lengths extendible in 5 mm increments with total length between 60 and 120 mm. Special lengths with a total length of 240 mm are also available.

eCLIQ system components

Management software

CLIQ® systems offer two versions of a reliable and uncomplicated management software for programming access authorisations and schedules for keys, doors and users: CLIQ® systems offer two versions of a reliable and uncomplicated management software:



The locally installed management software

CLIQ® Local Manager

- Locally installed management software for individual and several CLIQ® master key systems
- Intuitive and user-friendly in its use to manage CLIQ® master key systems easily in small and medium-sized companies
- Plug-and-play activation
- Improved security thanks to two-factor authentication
- Supports GDPR-compliant use
- Flexible and time-saving pre-modifications without the key owner needing to be present
- Tiered service levels
- User notifications to increase efficiency
- Integrated workflows take into account practice-relevant work steps
- Reports easily created
- Easy administration of different user groups
- Easily accessed .log files help to provide rapid support processes
- High acceptance among employee and works councils thanks to technical approver function



The Internet-based management software

CLIQ® Web Manager

- Allows master key system management to be connected online, thus providing access at any time wherever there is an internet connection
- Perfect for managing extremely large master key systems and systems spread across several sites
- Web application for multiple administrators, can be accessed by the client via a standard internet browser
- High-performance design allows master key systems of any size to be managed
- Technical approver function for obtaining events logs ensures high personal data protection
- Step-by-step user guidance and clear user interfaces reduce the amount of training required
- Revalidation options help to block lost keys and safeguard the system security
- Central server and data storage plus network-compatible client/server design
- Network connection, 128 bit SSL encryption and additional security with software certificates for client and server

eCLIQ system components

Programming devices



The programming device is used to read event logs and change time settings and access authorisations, depending on the key type.



Tabletop programming device

- Communications interface for secure data transmission between CLIQ® management software and programming key
- Programming of user keys and the reading station for the log memory in the time and remote user key
- USB connection

Tabletop programming device
For local and central use



Wall-mounted programming device

- Remote programming of access authorisations and validities of user keys (time and remote)
- Transmission of programming orders to programming keys
- For decentralised management
- Programming functions run automatically with optical and acoustic signals
- Power supply via 12-24 V mains connection or power over Ethernet
- Outdoor version for areas requiring protection from vandalism (protection rating IP65 and IK09 – vandal-proof)
- Data transmission via standard Ethernet cable
- Protected against dripping water

Wall-mounted programming device
Local and de-centralised use (e.g. at entrances)



Mobile programming device

- Remote programming of access authorisations and validities of user keys (time and remote)
- Transmission of programming orders to programming keys
- For decentralised management
- Acoustic and optical signals for operating status and activity progress
- Data transmission to the mobile device via Bluetooth on a smartphone or tablet and via USB to PC
- Power supply via standard batteries
- Mini USB connection for data exchange via cable
- Protected against dripping water

Mobile programming device
Mobile use directly by the key holder



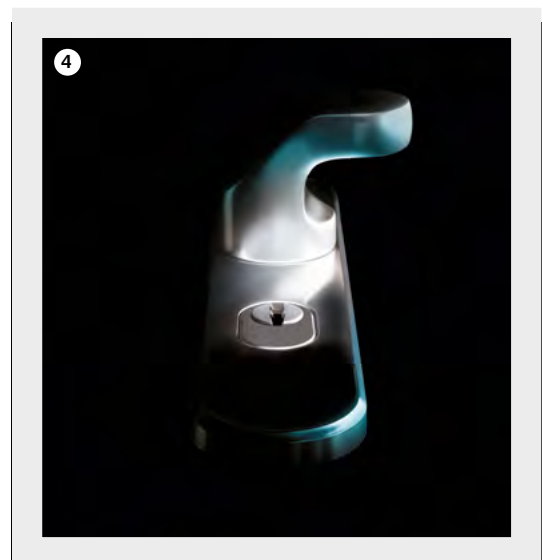
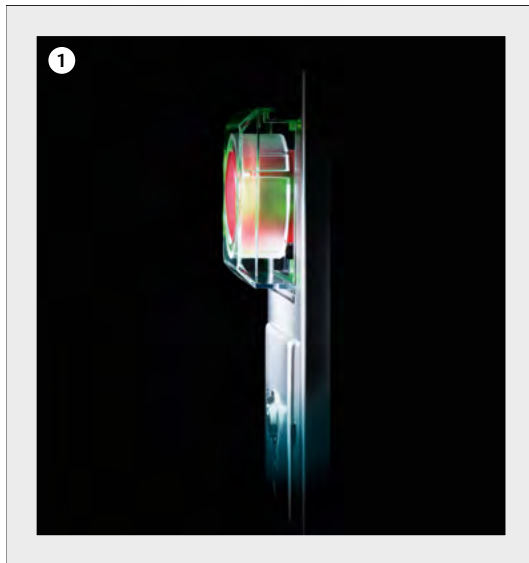
Master key systems and more – Integrated security technology for the entire building

You can always completely rely on ASSA ABLOY products whether you use them for companies, institutions, government agencies, industrial premises or administration buildings. When installing a new master key system, it's exactly the right moment to consider security equipment which offers more than just access control. For example, door fittings protect against attacks on locking cylinders and mortise locks and fit securely into the door leaf. ASSA ABLOY also has a highly effective system solution for automatic door closing in its product range. The modular system structure provides wide range of model variations in identical housing and, subsequently, in a uniform

design. ASSA ABLOY door closers offer easy access through perfectly regulated closing and opening forces.

With their anti-panic function and automatic master key system, effeff security locks also guarantee maximum mechanical security combined with maximum convenience for users. If you also wish to provide for emergency situations, effeff brand escape route technology offers an ideal solution. Your new master key system is thus given a few extra dimensions and will bring comprehensive added benefits. It will prove to be a worthwhile investment, not only in the event of a burglary.

- 1 Escape route technology for emergencies: the effeff Escape Door Terminal 1385 can be seamlessly integrated into switch ranges by well-known manufacturers of electrical installation and intelligent building control systems.
- 2 OneSystem is ASSA ABLOY's functional project lock range.
- 3 The full ASSA ABLOY door closer range is setting new benchmarks on the market.
- 4 IKON-brand security fittings – time-tested protection from attacks on locking cylinders and mortise locks.



For better understanding: Our brief glossary on locking cylinders



· Drilling protection

Increased drilling protection to security class 2 can be supplied to meet special master key system security requirements.

· Installation lengths

The basic length of a double profile cylinder is generally 60 mm (L = 30/30). Also 28/28 with eCLIQ. Besides standard lengths which can be extended in 5 mm increments up to a total length of 140 mm, special lengths are also available up to a total length of 240 mm.

· DIN class



German Institute for Standardization (DIN) security classification. All eCLIQ locking cylinders comply with EN 1303/DIN

18252 requirements. These standards, which define the requirements for high-grade locking cylinders, include measures such as cylinder protection, key control and protection against key copying, decoding, lock picking and drilling.

· Explosion protection



eCLIQ locking cylinders and keys are suitable for use in areas with Zone I explosion-prone atmospheres, ATEX= VERSO 2G EX IB IIB T4 Gb.

· Comfort function

Each authorised key within an eCLIQ master key system can activate double profile cylinders fitted with an emergency mechanism, even when there is another key inserted in a lock position on the other side.

· Surface finishes

IKON master key systems can be perfectly matched to the particular style of your doors, depending on the system. In addition to the standard nickel-plated satin finish, there are other surface finishes available for profile cylinders, furniture cylinders and external cylinders.

· Security card



A security card is supplied with every eCLIQ master key system. This security card is used for verification purposes when re-ordering keys and locking cylinders

from the manufacturer. It must be shown to the specialist dealer when re-ordering components from the factory.

· Special identification marking

If required, locking cylinders and keys can be supplied with a special identification marking of your choice, consisting of up to eight digits.

· Dust and rain protection cap



The optional dust and rain protection cap protects locking cylinders against all weather conditions, such as those experienced on radio masts. The new eCLIQ design increases the IP protection from IP54 to IP55. The cap is suitable for all cylinder types.

· VdS class



Certification mark issued by VdS-Schadenverhütung, the German insurance industry's certification centre. All IKON Euro profile cylinders described in this brochure are optionally available with VdS certification in accordance with VdS 2156-2.

The ASSA ABLOY Group is the global leader in access solutions. Every day we help people feel safe, secure and experience a more open world.

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