



**KABA®**

## Kaba elolectic V3

The Kaba elolectic V3 “stand-alone” access system requires no expensive wiring. With the copy-proof RFID Legic® technology, access data, times and authorizations are read and transmitted. A diverse range of functions and possible combinations allow for tailor-made solutions based on specific customer requirements.

# The Locking System of Tomorrow: Convenient, Flexible, and Secure.

## **Kaba eolegic - a dynamic system**

Modern infrastructures require sophisticated access systems which offer innovative and comprehensive solutions.

Flexibility and convenience are important demands that a locking system should meet. Companies with shift operations, frequent visitors or with changing structures require a secure and efficient solution.

## **A solution for every situation**

Tailor-made solutions are realized through the use of Kaba eolegic components such as locks, door furniture, cylinders, readers and media.

The numerous options for access management are grouped into three product lines:

- N-Line (no time)  
Access without time restrictions
- T-Line (time)  
Time-controlled access
- U-Line (universal)  
Mobile and time-controlled access

## **One single medium for everything**

The Legic key or badge serves as a universal data carrier. Various applications can be combined, such as:

- Door authorizations
- Time and attendance
- Cashless payment at cafeterias and at vending machines
- Access to parking lots
- Access to wardrobes/lockers
- etc.



The Kaba eolegic digital cylinder can be opened with Legic access media such as keys, cards or tags.



The Kaba eolegic c-lever door furniture solution.



The battery-operated Kaba eolegic locker lock for changing rooms can be integrated into the Kaba exos online access system.

## **Secure access, little effort**

The Kaba eolegic system combines its lock, access and programming elements to create a homogeneous and exceptionally flexible system. Thanks to the efficient programming methods for time and authorization options, security gaps are effectively eliminated. The uncomplicated management system provides an excellent overview of existing access authorizations. Door transactions can be retraced and localized.

## **No problem when keys are lost**

Lost keys can be quickly and easily blocked or replaced. Every type of identification medium, such as keys, cards or tags, contains a Legic chip. This allows quick and easy reprogramming of replacement media using the simple "replace" command.

Adaptations to the locking system can be made with a portable programming device or with software on a PC. Door information such as authorizations, movements and battery status can be displayed with the software as well.

## **Seamless integration**

The Kaba eolegic system is very flexible in terms of compatibility. This means that existing mechanical Kaba systems can be retrofitted with the Kaba eolegic system. Mechanical Kaba key clips are replaced with Legic key clips, thus enabling existing doors with existing systems as well as new entrances (e.g. for building expansions) to be operated with the Kaba eolegic mechatronic solution. The Kaba eolegic system is also prepared for seamless integration in the Kaba online world via the "CardLink™" function.

# A Diverse Range of Applications: Six Examples



## Industry

A good overview of the system is provided at all times with the electronic locking system, which can be adapted or expanded to meet the needs of specific situations. Thanks to the upward and downward compatibility of the Kaba elolectic system, exchanging cylinders or entire master key systems is a thing of the past.



## Universities and schools

Every type of Legic access media, such as keys, cards or tags, can be quickly reprogrammed with replacement media. This ensures optimum building security in case a key is lost. When used in combination with the electronic locker lock, new options emerge for changing room security.



## Banks

Security and trust are the product of assurance. With transaction memory, it is easy to determine when and where a key was last used. Risk factors are minimized and valuable time is saved in clarifying door incidents.



## Security services

Remote access authorization to permit entry in situations where immediate intervention is needed, has become reality with Kaba elolectic. Temporary authorization is assigned to the key (e.g. which is located in the vehicle) from the control room PC via GSM mobile phone networks. Moments later, access authorization is granted for the respective building.



## Utilities and plants

Individual time and authorization profiles can be assigned to a department, a team, or a division. Therefore, an unlimited number of users can be managed. For contract services or security guard tours, temporary access can be transmitted to a key quickly and efficiently.



## Airports

For airport infrastructure, controlling access rights is crucial in maintaining tight security. Personnel verify their identity at the interactive reader in order to activate existing access rights for a predefined time period. Lost access media can be blocked very quickly in large systems by revoking verification rights - building security remains intact.

# Programming and Planning

## Planning - the foundation of security

The access concept of Kaba elologic is broken down into three steps:

1. Planning for mechanical locks
2. Planning for electronic locks
3. Temporary authorizations

The advantages of the Kaba elologic system become apparent almost as soon as planning begins for the security concept. Mechanical locking plans become simpler because individual locks can be electronically programmed at a later point in time. Important areas such as the outer shell of the building are electronically secured, whereas mechanical cylinders are used for inside areas. Planning for electronic locks can even be performed after the system has been installed, as the door elements are very simple to program.

Lists of people can be imported and managed. Issue, return, or loss of keys is documented with reports and permanently saved in a log file. Changes made to the locking system are also recorded.

## Mobile functions

The "mobile functions" make it possible to grant additional temporary authorizations which are restricted to specific doors. They offer flexible means to manage individual access rights. Changing the master key system is not necessary, as the key is only programmed to be valid for a limited period of time.

For example, with the "TwinTime" function, the permanent time profile is combined with a second time profile in the medium. Access is thus only allowed within the limits of both time windows.

In order to provide an overview, all of the functions are described in the following page.

## Programming tools for every application

Kaba elologic can be efficiently programmed for specific applications. For very simple applications, the key or badge is programmed or deleted by a programming medium (Master A/B). Therefore, no programming device or software is required.

If multiple doors need to be programmed or if door movement data need to be reviewed, this is carried out with a handheld programming device.

When the Kaba elologic system is installed in medium to large sized buildings, the programming device is supplemented with the "Kaba elo manager" software so that the full range of functions can be utilized. If the locking system will be managed by several people, a network solution can also be implemented.

Your investment will always be secure, even if the Kaba elologic stand-alone solution is eventually migrated into an online system: elologic elements are taken into the online world of Kaba exos by the "CardLink™" function.



The electronic key plan enables a wide range of programming options. With the TraceBack log, people- and/or door-related events can be evaluated with versatile sorting and filtering functions.



Validation at the door: Access authorizations can be dynamically created or modified.

# Kaba eologic Functions at a Glance

## **No time (N-Line)**

The access medium for the “no time” function is programmed so that it is either “authorized” or “not authorized”. If a key is lost, access authorization can be revoked at any time.

## **Time (T-Line)**

The “time” function has an additional, real-time clock which is used to restrict authorization to certain hours of the day. A multitude of time profiles and holidays can be programmed. Door movements are saved and can be retraced.

## **Modification (T-Line and U-Line)**

A modification is a change that can be made at the door using an access medium. The following functions are available:

- **Replace:** The authorization is revoked from the access medium to be replaced. The new medium is read, and all existing authorizations and time profiles are transferred.
- **Add:** As soon as a permanent authorization is programmed at the door, the new access media can be issued.
- **Delete:** The media to be deleted and the affected doors can be assigned to a service medium, whereby all corresponding authorizations are cancelled.

## **Mobile (U-Line)**

Kaba eologic authorizations can also be temporarily saved on the access medium with “mobile functions”. This enables a high level of flexibility while providing an additional security factor at the same time. The three mobile functions are defined as follows:

- **Group authorizations:** Multiple doors are combined to form a group. New access media are assigned to one or more such groups, thus providing automatic access to the respective doors. This is quite practical, a nearly unlimited number of access media can be programmed in this manner.
- **Visitor authorizations:** This function programs the access medium with a temporary authorization for specific doors.
- **TwinTime:** As a general rule, authorizations are permanently saved in the door. With TwinTime, this time window is combined with a second, limited time window on the access medium. Access is thus only allowed when both time windows coincide.



## **Medium TraceBack (U-Line)**

In this case, the medium is supplied with transaction memory. Movements and information such as modifications, access using visitor or group authorizations, and the battery status are transferred from the access medium to the software via the programmer.

# Kaba eologic Success Stories

**Numerous projects around the world have already been realized with Kaba eologic - three practical examples.**

**Holland: "State-of-the-a-Art" locking system at "De Nieuwenhage" nursing home**

The modern "De Nieuwenhage" nursing home in Bosch has developed a unique living concept that enables its residents to live a completely independent lifestyle "at home" for as long as possible. This living concept demands an innovative security concept that provides residents with immediate access by the nursing staff in case a medical emergency arises.

The Kaba eologic locking system, with over 100 compact cylinders and a central management system, fulfils this and many additional requirements. The options presented by the capability of combining mechanical door elements, electronic card readers and additional cylinders, as well as efficient electronic management, were a decisive factor in approving the investment for this project.

**Switzerland: V-Zug lives up to high quality standards**

Every second household in Switzerland has a V-Zug appliance, be it for cooking, baking, washing dishes, or washing and drying laundry. Their position as market leader continually drives V-Zug AG to new innovations. The demand for quality is also apparent in the construction of their corporate headquarters in Zug. The modern, well lit building has a comprehensive security system with a Kaba master key system and access control. Openness and security are not mutually exclusive concepts - it is only a question of the flexibility of the system. A host of ambitious objectives had to be met simultaneously: security at critical points, uncompromised retention of keys on the company premises, flexible access control and cash-free payments. These requirements were met through the use of the Kaba exos 9300 online access system, a revolutionary new key dispenser, as well as with Kaba eologic and Kaba star cylinders - all from one single provider.

**Singapore: The elite Nanyang University with intelligent digital cylinders**

Nanyang Technological University, NTU for short, always strives to improve its learning and recreational facilities - and the security of its students is an important aspect. For this reason, a Kaba eologic stand-alone solution was chosen for the recently built campus. The system provides multi-level access control with comprehensive incident monitoring, without needing expensive wiring. Due to the fact that Kaba eologic digital cylinders can be easily integrated with existing doors and door furniture, the mechanical locks were able to be converted, without additional cost, into intelligent digital access systems with time functions. Legic cards, which can be easily blocked and replaced if lost, now open the doors to their dormitories. The system, which has more than 700 digital cylinders and 2500 user cards, is centrally managed with portable programming devices and Kaba software. This allows for the flexible, orderly management of authorizations for the entire mechatronic locking system.



# Kaba eologic Products, Lines and Features at a Glance

The product lines N-, T- and U-Line differ in various functions and power supply concepts. This covers a wide range of requirements for highly versatile applications.

		Lines/functionality	N-Line	T-Line	U-Line
Functions	Programming	Kaba eologic programming smart key (master A) 	1	1	1
		Kaba eologic programming smart key (master B) 	up to 200	up to 200	up to 200
		Permanent user authorizations per electronics	2400	2400	2400
		Modification with medium	-	replace	replace add delete
	Time	Number of time profiles	-	16	16
		Number of time windows for each time profile	-	12	12
		Number of holiday periods	-	10	10
		Number of holidays (individual days)	-	32	32
		TimePro functions (office, day/night)	-		
		Traceback – number of events	-	1000	1000
	Mobile	Temporary authorizations on media for visitors and groups	-	-	
		Blacklist – electronic blocking list for media per electronics	-	-	200
		TwinTime	-	-	
Types of components	Kaba eologic cylinders: double, half, thumbturn 	●	●	● + ○	
	Kaba eologic compact cylinder 	●	●	● + ○	
	Kaba eologic digital cylinders: standard, half, dual 	Standard cylinder only	●	●	
	Kaba eologic c-lever + lock 	-	●	●	
	Kaba eologic locker lock 	-	-	●	
	Kaba eologic reader compact + remote 	⚡	⚡	⚡	
	Kaba eologic key tube 	-	-	○	
Media	Kaba eologic power key with battery 	●	●	●	
	Kaba eologic smart key 	○	○	○	
	Kaba legic user card 	○	○	○	

● with battery  
○ without battery

⚡ 12-24 V connection  
- not available

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