Today KESO is the supplier who combines high-quality mechanical locking systems with modern electronic high-tech systems. Building mechanical systems to be managed offline with software and mechatronic systems to be organised offline and online. These benefits can be seen with private house doors or on a garage door of a detached house and can also extend to highly-sensitive, complex sites of large companies and institutions. The individual components are totally compatible with each other and contain every implementation of master key systems. Crucial for the secure usage in everyday life is the precise statement of needs and the careful fine-tuning of all systems. And this is where the KESO specialist expertise starts and which encompasses all the steps from the concept to the control.

A high frequency of people demands maximum security, and for this reason KESO offers specifically developed solutions for all sector requirements. KESO guarantees many years’ operability at the lowest costs and simple, practical operation. KESO’s wide experience in the following system solutions really make it stand out from the crowd: Hospitals and care homes  Industry and trade  Sport & culture  District communities and administrations  Banks & insurance companies  Transport & Logistics
Security is a huge word. It includes both technologies and those emotional aspects which occupy us on a daily basis.

Bespoke security concepts always require outstanding quality, a skilled partnership and perfect solutions. The KESO brand lives up to its promise and always aims to meet the high requirements of its customers at all times.

The central task of KESO in its role as a competence centre is to quickly identify the most varied of requirements and to successfully ensure more security in your world using the most modern technology. Today KESO has an international network.

The KESO K4 Software combines all requirements of the modern management of locking systems. The management, programming and online control per mouse-click with one application is unrivalled as far as its user-friendliness is concerned.

The KESO K4 Software

Online
- KEKnet Access
- KEKnet Access Mobile
- KEKnet Programmer
- KEKnet

Offline
- Mechanical
  - KEK Key
  - KEK Cylinder
- Mechatronic
  - KEK i-handle S
  - KEK i-handle HS
- KEK Components
  - KEK i-handle Connection Box

Network technology
- KEKnet Kabinet

Other
- KEKnet Access

Other
- KEKnet Access Mobile
- KEKnet Programmer
- KEKnet

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Notes
The global success of KESO products is founded on the strict standards set by the company for itself and its products. Thanks to ongoing development of all systems, a holistic product philosophy and the expert knowledge of our Swiss development department, we will continue to guarantee maximum compatibility and modularity for all systems in the future. International partnerships and the links to the ASSA ABLOY Group guarantee technology transfers in all areas. KESO relies on proverbial Swiss quality and ensures maximum long-term sustainability.

The KESO principle observes strict compatibility rules based on a unique idea: «The key to your world.» From the turn key to electronically controlled master key systems, all areas can be controlled and managed with a single online or offline software management system.
Concepts and solutions

The conceptual approach in the implementation of master key systems, locking systems and networked solutions delivers more security. All factors from the analysis to the concrete deployment are immediately examined together with customers and planners – and the benefits are immediately obvious in the definition of the products to be implemented. An overview and cost accuracy are guaranteed throughout the process. Due to its wide competence in planning, project management and maintenance, specialists are available at all times. The KESO field team is always there.

1. Analysis
   Security requirement
   Company structures
   Workflow diagram
   Situation plans
   Matrix

2. Concept
   Strategy
   Scenario planning
   Central plan
   Budget plan
   Deadline plan

3. Implementation
   Products platform
   Key lists
   Locking plan
   Door matrix
   Scenarios
   Product ordering

4. Set-up
   Installation
   Hand-over
   Training
   Maintenance contracts
   Controls
   Support

Strategy in practice:
The door matrix provides the most accurate overview of the equipment of every door.
Mechantronics: Components and Options.

The KESO KEK Combi Key opens all mechanical and mechatronic security cylinders.

KESO Keycard and KESO Tag control the KESO Batchless Antennas (Page 16).

KESO Digiport is the appropriate console for encrypted accesses (Page 17).

KESO KEK i-handle

KESO KEK Genie BS or KESO KEK Genie Knob (Pages 10–11)

Mechanical Cylinder

KESO Batchless Indoor

KESO Drive Cylinder MOZYeco or Drive Lock (Pages 13).
Management

The KESO K4 Software manages complete master key systems.

**KESO K4**
Who has access when and where? Who holds which data carriers? KESO K4 has been optimised and further developed based on customer requirements. Today KESO K4 is even more high-performance and easier to use. It is used as an ideal and cost-effective management system for mechanical or mechatronic master key systems and as software to control the KESO KEKnet network solution (See Page 16 for more information about this).

**Benefits**
- Management of mechanical master key systems (also external systems)
- Manages mechatronic master key systems
- Controls the KESO KEKnet network solution
- Password-protected database
- Simple installation
- Easy to understand operation
- Clearly structured display
- Separation of the databases
- Accessible from different locations

**Requirements:**
- Processor: Pentium III or higher
- Operating system: Microsoft® Windows 2000 (Service Pack 4 or higher), Microsoft® Windows XP (Service Pack 1 or higher), Microsoft® Office 2000 (or higher), Microsoft® Windows Vista™
- Working memory at least 128 MB
- Memory requirement: at least 150 MB for the KESO K4 Software (without databases)

**KESO K4 organises offline all master key systems and controls KEKnet networks online. Please also note the fold out on page 24.**

---

**Technical data**
- Installation: From CD-ROM
- Help: Online in Help-Menu with F1
- Languages: English, French, German, Italian

**Versions**
- K4 Demo
- K4 Basic: Activate the license file via email
- K4 Standard: Activate the license file via email
- K4 net: Activate the license file via email

**KEKnet compatible**
- Graphics card: at least 800x600 (SVGA) with 256 colours
- Drives: CD-ROM
- Interface: USB 2.0

<table>
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KEK Programming

The intelligent Two-in-One KESO KEK Programmer PPG V2 with two antennas and various interfaces.

KESO KEK Programmer PPG V2

The KESO KEK Programmer PPG V2 makes the programming of the KESO KEK range even more convenient. The special KESO Software PPG enables all KESO-Media and electronics to be programmed centrally and decentrally. The authorisation of up to 8000 KEK access media and all time-slots, data and all parameters are assigned into the electronics. When programming the data it can be selected at the same time whether the event memory should be read. The battery status can be read and reset on-site. Also the firmware can update all the electronics which have a serial interface or KAPI* Bus.

Benefits
- Combines the options from KESO KEK Programmer USB and KESO KEK Programmer PPG V1 in one device
- Offline-Programming, reading of cylinders, readers, fittings and keys
- Automatic identification of the electronics on download
- Manageable, robust, compact
- Very easy to use via clear touch-screen
- Multilingual (9 languages)

Technical data
- Dimensions: 14 x 6 x 2.3 mm
- Weight: 165 g
- Power supply: Lithium-ion polymer battery
- Programmable: KESO KEK range
- Communication: seriell, KAPI* or RF (key adapter)
- Set: Complete with power supply, all adaptors, operating instructions (E, F, G, I) and standard cables

Options
- Docking-Station, leather case, special cable

Article number
- Standard: K.544/01 for length profile: K.544/02
- KESO Advanced Programming Interface

KEKnet compatible

Requirements:
- Processor: Pentium III or higher
- Working memory at least 128 MB
- Memory requirement: at least 150 MB for the KESO K4 Software (without databases)
- Drives: CD-ROM
- Operating system: Microsoft® Windows 2000 (Service Pack 4 or higher), Microsoft® Windows XP (from Service Pack 1 or higher), Microsoft® Windows Vista™
- Graphics card: at least 800x600 (SVGA) with 256 colours
- Software: KESO K4 Software V4.0.40 or higher
- Interfaces: USB 2.0

1. Practical: Keys are placed in the antenna for programming.
2. On the rear side: Printed positioning help for the KESO Tag and KESO Keycard.
The KESO KEK Programmer USB makes programming easy.

**KEK Programming**

**KEK Programmer USB**
In the KEK Programmer USB the connection is reduced to one USB cable. The Software KESO K4 easily programs the mechatronics products including KESO KEK Genie, KESO Batchless and KESO identification media.

**Benefits**
- Network-independent programming
- Small, robust, compact and manageable
- Very easy operation
- Fast data transfer

**Requirements**
- Processor: Pentium III or higher
- Operating system: Microsoft® Windows 2000 (Service Pack 4 or higher), Microsoft® Windows XP (from Service Pack 1 or higher), Microsoft® Windows Vista™
- Drives: CD-ROM
- Software: KESO K4
- Interfaces: USB 1.1 or USB 2.0

**Technical data**
- KESO KEK Programmer USB
  - Dimensions: 150 x 80 x 30 mm
  - Power supply: Via the USB cable
  - Programmable: KESO KEK Genie KESO Batchless, KESO Identification Media
  - Communication: Via the USB interface

**Article No.**
- KESO KEK Programmer USB K.515/01

KESO KEK Programmer USB: Makes programming even simpler and faster.
KEK Mechatronics

The KESO KEK Combi Key has multiple compatibilities due to its intelligent electronics.

**KESO KEK Combi Key**

These compact and stylishly designed keys can integrate up to three very diverse RFID technologies. The chip modules are built and welded into the key shaft. This enables the key to withstand all stresses that can impact the electronics such as shock, water, mechanical and thermal resistance. There is a window in the key shaft that as an option can be labelled in multi-coloured print.

The KESO KEK Genie Key Depot Cabinets register every access electronically. The Two-Key-Forced Locking does not allow any access to the depot cabinets without a second security key. The cabinets physically keep mechanical and/or mechatronic keys.

**Benefits**

- Compatible with all KESO Systems
- Multifunctional
- Several RFID technologies in one key
- Convenient handling through high reading distance
- Key without power supply
- No mechanical restrictions
- Optional window labelling
- Available in 18 different colours

---

1. A. Labelling option
   B. 125-kHz Module
   C. 13.56-MHz Module (optional)

2. KESO KEK Key Depot Cabinet

3. The multiply intelligent key is compatible with the KESO mechanical systems.

---

**Technical data**

- Cylinder systems: KESO 1000, KESO 2000 and KESO 3000
- Metal: Nickel silver, welded plastic shaft
- Electronics: In the key shaft, integrated chip with unique number, 125 KHZ chip module (KESO) 13.56 MHz chip-module (Legic) optional – to connect to contactless external systems such as time, access or cash.
- Power supply: Passive data carriers; the power is input inductively via the antenna

**Article No.:**

- KESO:
  - KESO 1000S: 10.961...
  - KESO 2000S: 20.961...
  - KESO 3000: 30.961...
- KESO mit Legic:
  - KESO 1000S: 10.803...
  - KESO 2000S: 20.803...
  - KESO 3000: 30.803...

KEKnet compatible

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1. A. Labelling option
2. B. 125-kHz Module
3. C. 13.56-MHz Module (optional)
The KESO KEK Genie Button has integrated the electronics and power supply.

**KEK Mechatronics**

**KESO KEK Genie Knob**
The set-up of the KESO KEK Genie Knob is very easy and does not require much effort. The operation from the inside is the same as for mechanical thumb turn cylinders. Electronic authorisations are granted as for all KESO KEK Genie Cylinders with the KESO K4 Software or with the corresponding programmable/delete keys.

**Benefits**
- «All-in-one» solution
- Cost-effective
- Easy to set up
- Compact design
- Compatible with all KESO Systems
- Electronics and batteries in the knob
- Modular cylinder construction
- PC or Home- Version

**Requirements:**
- Area of application: From backset 35 mm
- PC-Version: KESO K4 Software Basic or higher

**Management/Programming:**
- Home- Version with delete/programming and master key
- PC-Version with KESO K4 Software (Mode Time, Mode No-Time) and KESO Programmer PPG V2 or KESO Programmer USB

**Technical data**
- Cylinder systems: KESO 1000, KESO 2000 and KESO 3000
- Cylinder profiles: Euroswiss Profile and Euro-Profile
- Dimensions: 102.5 mm total length, 60 mm cylinder basic length 42.5 mm knob length 39 mm knob diameter
- Extensions: In 5mm steps per side
- Surface: chrome plated matt (standard)
- Power supply: Battery package in knob
- Battery life span: About 40,000 actions or 2 years
- Battery end identification: automatic
- Protection rating: IP 54
- Temperature range: -20° to +50° C
- Air humidity: 15 to 70 %
- ESD/EMV: CE/EN 61000 - 6 - 2/3
- VDS: KESO KEK Genie Knob, VDS Class A with drill open protection ABS, VDS Class B

**Article No.**
- 1000S: 11.51X.060...
- 2000S CH-Profile: 21.51X.060...
- 2000S EU-Profile: 21.41X.060...
- 3000: 31.51X.060...
The KESO KEK Genie BS includes double security – mechanical and electronic.

**KESO KEK Genie BS Cylinder**

The KESO KEK Genie BS offers double security. The key has to correspond mechanically and electronically. It is available as a mechanical-electronic locking cylinder and as a home, PC or PC-Time Version. In the time version the history with the date and time is recorded. This version allows the programming of 16 time-slots. The cylinder is easy to set up and use. The set for a door consists of locking cylinders and cylinder electronics. It is also possible to supply it via the mains electricity grid. The cylinder electronics are available as a face plate or fitting in several designs (See pages 13 and 14).

**Benefits**

- Can be retrofitted on every KESO master key system
- Full mechanical components
- Modular cylinder construction
- Euroswiss and Europrofiles
- Fast response when a key is lost, no replacement cylinder
- Control of access authorisation through mechanics and electronics
- Various integration and build options for the electronics
- Contactless reading method
- Up to 16 time-slots can be defined
- Non-volatile data memory
- Readable History

**Management /programming**

- Home-Version with delete/programming and master key
- PC-Version with KESO K4 Software (Mode Time, Mode No-Time)

**Offline:**

- KESO KEK Programmer PPG V2
- KESO KEK Programmer USB

**Online:**

- KESO KEKnet Access

---

1. Euro-Swiss Profile
2. The KESO KEK Genie BS Cylinder enable histories with data and time to be read.

---

**Technical data**

- Cylinder systems: KESO 1000, KESO 2000 and KESO 3000
- Cylinder profiles: Euroswiss Profile, EU-Profile
- Basic lengths: Double cylinder 60 mm, half cylinder 40 mm
- Extensions: In 5mm steps per side
- Surface: chrome plated matt
- Read method: Contactless
- Protection Rating: IP 50
- Temperature range: -10° to +50° C
- Air humidity: 15 to 70%
- VDS: KESO KEK Genie BS, VDS Class A with drill open protection (ABS), VDS Class B

**Article No.**

- Double Cylinder:
  - 1000S: 11.583.060...
  - 2000S CH-Profile: 21.583.060...
  - 2000S EU-Profile: 21.483.060...
  - 3000: 31.583.060...
- Thumb turn cylinder:
  - 1000S: 11.585.060...
  - 2000S CH-Profile: 21.585.060...
  - 2000S EU-Profile: 21.485.060...
  - 3000: 31.585.060...
- Half cylinder:
  - 1000S: 11.581.040...
  - 2000S CH-Profile: 21.581.040...
  - 2000S EU-Profile: 21.481.040...
  - 3000: 31.581.040...

**KEKnet compatible**

**Intelligence**

Cylinder electronics available as a face plate or fitting solution (See pages 14 and 15).
The KESO KEK Genie Alarm interconnects burglary alarm systems using the SESAM ISE+ access and activation evaluation unit. A KESO KEK Genie BS cylinder is connected to the KESO KEK Genie Alarm and serves as a reader and blocking element. The alarm, in turn, is connected to the SESAM ISE+ evaluation unit. The KESO KEK Genie BS cylinder is built into an existing mortise lock. The KESO KEK Genie Alarm also serves as a junction for the magnetic contact and bolt switch contact.

**Advantages**
- Access and alarm system activation via a KESO KEK Genie BS cylinder
- Possible to activate and deactivate several doors
- Permanently open mode available
- Wide range of mechanical permutation
- Can be combined with mechanical cylinders
- Programmable via SESAM ISE+
- Two doors can be connected per ISE+
- Up to 63 ISE+ can be networked
- Parameters can be set remotely
- 60,000 log events
- 3,000 personal authorisations

**Technical specifications**
- Electronics circuit board 84 x 84 x 14 mm (LxWxD)
- Surface-mounted casing 119 x 119 x 30 mm (LxWxD)
- Flush-mounted casing 131 x 131 x 30 mm (LxWxD)
- Protection rating: IP 40
- EMC: EN 55022 / EN 50130-4
- Operating temperature: –10°C to +60°C
- Reader method: Contactless
- Antenna tuning: Automatic, software-controlled
- Power supply 12 V DC via SESAM ISE+
- Programmable via SESAM ISE+
- VDS class C: G 104 020
- Safety standard: EN 60721-3-3

**Item No.**
K.519 (only block lock electronics)

KEKnet compatible
The Motor Cylinder KESO MOZYeeco locks every door automatically or with time closure. Therefore the KESO MOZYeeco can be combined with and added to all master key systems. The KESO MOZYeeco is very convenient when used in combination with further mechatronic KESO products such as the KESO Batchless or KESO Digiport 30. Access authorisation in the form of a key, a PIN-Code with KESO Digiport 30, a card or a badge in combination with KESO Batchless, through activation via an intercom system or via an external product with an isolated output signal.

Benefits
- Compact and robust design
- Easily retrofitted
- Easy to assemble
- Easy programming on-site via jumper settings
- Controllable via access control systems
- Unlocking via intercom system possible
- Emergency opening with thumbturn and key
- For single and multi-turn locks
- Use with panic locks without extra functions possible
- Acoustic and visual signalling
- Integrated opening key
- Can be used from backset 18 mm
  For outside opening door from backset 35 mm

Technical data
- Temperature range: -10° to +60° C
- Voltage: 12 VDC
- Mass: 127 x 36 x 65 mm
- Protection rating: IP 40
- Fitting: Four screws

Power supply
- Voltage: 230 V
- Protection rating: IP 40

Article No.
Complete set for wooden doors: 17.012.0001

KEKnet compatible

More security thanks to robust motorised cylinder KESO MOZYeeco.
The KESO KEK Genie BS Electronics is easy to set up in the fitting or in the face plate casing.

**KESO KEK Genie BS Electronics Battery Version**

With the electronics in the fitting or the face plate the KESO KEK Genie BS cylinder range is even more attractive. The visible assembly on the inner door side enables for example the direct fixing to security escutcheons. The communication socket is located under a protected covering.

**Benefits**
- Compact design
- Robust construction
- «Stand-Alone» use
- Simple and fast assembly
- Two standardised face-plate lengths
- Concealed or visible assembly
- Can be retrofitted to existing systems
- Normal batteries
- Fitting cover in EU-Profile, Euroswiss-Profile and Blind
- With optional accessories – also suitable for fire-resistant doors.

**Requirements:**
KESO KEK Genie BS Cylinder

**Management/Programming**
- Home-Version with delete/programming key
- PC-Version with KESO K4 Software (Mode Time, Mode No-Time) and KESO Programmer PPG V2 or KESO Programmer USB

**Technical data**
- Temperature range: -20° C to +70° C
- Air humidity: 10 to 70 %
- Power supply: Three alkali manganese cells type LR1 at 1.5 Volt)
- Battery lifespan: About 50,000 actions or 2 years
- Protection rating: IP 50
- Electronics: In black plastic casing
- Dimensions: Narrow fitting 127 x 41.4 x 18.5 mm (L x W x H)
  Wide fitting 127 x 55 x 18.5 mm (L x W x H), Face plate long 230 x 20 x 42 mm (L x W x D)
  Hole spacing distance 210 mm
  Face plate short 170 x 20 x 42 mm (L x W x D)
  Hole spacing distance 150 mm
  Surface: Face plate: black
  Fitting: Galvanised, gold deco, black, chrome plated matt
- Interface: RF and serial

**Article No.**
EG.707...

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1. Swiss Profile
2. The fitting covers are available in the versions: Euro-Profile, Euroswiss-Profile and Blind with chrome, gold, chrome plated matt or black décor.
3. Massive design in chrome nickel-steel available.
4. The face-plate variant is designed for concealed assembly.
The KESO KEK Genie BS Electronics Power-Supply Version makes systems battery-independent.

**KESO KEK Genie BS Electronics Power-Supply Version**
The many assembly options of the KEK Genie BS Electronics Power Supply Version can be found on Page 22. We also recommend here the KESO KEK Connection Box.

**Benefits**
- Compact design
- Robust design
- Simple assembly
- Concealed assembly
- Can be retrofitted to existing systems
- Two standardised face-plate lengths

**Requirements:**
KESO KEK Genie BS Cylinder

**Programming:**
KESO K4 Software
- **Offline:**
  - KESO KEK Programmer PPG V2
  - KESO KEK Programmer USB
- **Online:**
  - KESO KEKnet Access

Programming interface – RS-485, RF and serial

---

1. KESO KEK Genie BS Electronics Power Supply Version
2. The emergency power supply in the practical KESO KEK Connection Box (See Page 24) guarantees non-interrupted operation.
3. The KESO KEK Genie BS Electronics in the longer and shorter faceplate variants.

**Technical data**
- Material of casing: Polyamide 66, black
- Power feed: external, 12/24 VDC
- Dimensions: Electronics 118 x 38 x 14.6 mm (L x W x H)
- Data security: All data is stored in non-volatile memory
- Reader method: Contactless (RFID)
- Application type: Networked or stand alone
- Protection rating: IP 50
- Temperature range: -20°C to +70°C
- Air humidity: 15 to 70 %
- Events: (First in first out) with date, time and person
- Administration: Via KESO K4 Software Basic or higher

**Article No.**
EG.708...

KEKnet compatible
KESO Batchless controls motorised and electronic locking systems.

KESO Batchless
KESO Batchless equips doors with state-of-the-art security technology. Depending on the version, authorisations with the KESO KEK Programmer or with the corresponding cards/keys can be programmed. An optional power adaptor ensures the energy supply. The KESO Batchless Antenna with LED-Display is mounted on the outside and connected to the electronics. The data carrier is identified contactless on the KESO Batchless Antenna using transponder technology. The electronics check the data and, if it is in conformity, forward the activation signal to the control unit of the automatic locking system (e.g. KESO MOZYeco, sliding doors, garage door controls etc.).

Benefits
- Contactless
- Compatible with all KESO data carriers
- Ready-to-use cable for KESO MOZYeco
- Various integration options for the electronics and antenna

Indoor Version:
- Up to 6 metres antenna cable

Outdoor Version:
- Up to 100 metre antenna cable

Technical data
- Application type: Stand-alone or networked via KEKNet
- Temperature range: -10 to +60° C
- Voltage: 12 VDC/24 VDC

Indoor Version 6
- Dimensions: 44 x 54 x 5/20 mm
- Fitting: Surface mount
- Cable length: max. 6 metres
- Protection rating: Antenna IP 41
- KESO Batchless Electronics IP 50

Indoor Version EDIZIOdue
- Dimensions: 88 x 88 mm
- Fitting: Surface mount or flush-mounted
- Cable length max. 100 metres
- Protection rating: Antenna IP 50
- KESO Batchless Electronics IP 50

Outdoor Version:
- Dimensions: 85 x 85 x 20/65 mm
- Fitting: Surface mount or flush-mounted
- Cable length: max. 100 metres
- Protection rating: Antenna IP 55
- KESO Batchless Electronics IP 50

Article No.
EG.709...

KEKnet compatible

Requirements:
An unlocking system such as for example KESO Motorised Cylinders or motorised locks. In a PC-version the KESO K4 Software is required.
KESO Digiport 30
The KESO Digiport 30 controls external unlocking systems and manages up to 30 codes which receive access authorisation by inputting a PIN-Code – completely without a key or card. The PIN code can be changed by the user himself directly on the keyboard. The administrator can revoke or change programmed authorisations at any time.
KESO Digiport 30 is suitable where owners want to change authorisations themselves quickly and easily.

Benefits
- Flexible and easy to use
- Can be programmed without tools
- Compact design
- Can be used everywhere
- PIN-Code can be selected with two to eight digits
- Ready-to-use cable for KESO MOZYeco

Requirements:
An unlocking system such as Motorised Cylinder KESO MOZYeco or motorised locks.

Technical data
- Temperature range: -10° C to +60° C
- Voltage: 12 VDC eg from KESO MOZYeco power supply
- Dimensions: 44 x 54 x 5/20 mm
- Fitting: Surface mount
- Cable length max. 4 metres
- Protection rating: IP 41

Article No.
G.097...
The KESO KEK i-handle HS (high security) door fitting solution with ultra slim fit is completely network-compatible.

**KESO KEK i-handle HS**
The KESO KEK i-handle HS (high security) door fitting solution is the only mechatronic door fitting solution which meets the three most important security standards for burglary protection, emergency exits and fire protection. It is compatible with the entire KEK range and recognises corresponding KEK identification media. Handles or knobs are electro-mechanically controlled. Without access authorisation the outside handle does not engage and the knob or handle won’t work. Doors can be opened from the inside without identification media at all times. The extremely robust and stylish fitting is primarily used in tubular frame doors but can also be used in full-leaf doors by using the decor plate. All authorisations are managed using the KESO K4 Software and are assigned online or offline. Access authorisations for individual users are controlled with well-defined time slots. The fitting is optionally available with a cylinder hole. A mechanical or mechatronic cylinder is used for emergency opening in such fittings. An emergency power module is available in place of the cylinder hole. This can be used to open the door in an emergency when the batteries are dead.

**Benefits**
- Contactless access using RFID identification media such as a keycard, Tag, or KEK combi key
- Slim fitting width, only 35 mm wide
- Compatible with the entire KEK range
- Distinguishes between up to 8000 access media
- Simple retrofit
- Management and programming via KESO K4 software (from Version V4.0.27)
- Offline programming with KESO KEK Programmer PPG V2 or USB
- Programmable function for keeping door unlocked
- User-controlled function available for keeping door unlocked (office function)
- Person-specific, time-limited access
- Scheduling for public holidays
- Adjustable optical and acoustic signals
- Adjustable timing for opening signal
- Emergency power (option)

**Requirements:**
Authorisations assigned offline via KESO KEK Programmer PPG V1, PPG V2 or USB. Management and programming online and offline via KESO K4 software (from Version V4.0.27)

**Technical data**
- Operating temperature: -20° to +70° C
- Air humidity: 10 -95 % (non-condensing)
- Power supply: 4 pc. 1.5 V alkali manganese cells type LR6 (AA) or 12/24 VDC external feed
- Protection rating: Exterior side IP54
- Interior side IP 30
- Electronics: KEK electronics inside fitting, antenna in black synthetic casing outside fitting
- Dimensions: 322x35 mm
- Surface: Stainless steel
- Interface: serial and KAPI*
- Standards: ESD/EMV
- Burglary protection test: DIN EN1906, Protection rating 2
- Emergency exit: Suitable for doors acc. to DIN EN179
- Fire protection: Approved in accordance with DIN 18273

**Article Code EG.712**
* KESO Advanced Programming Interface

KEKnet compatible
The KESO KEK i-handle S (security) door fitting solution for easy installation

**KESO KEK i-handle S**
The KESO KEK i-handle S (security) is a mechatronic door fitting solution for easy installation in indoor areas. It is compatible with the entire KEK range and recognises corresponding KEK identification media. The handle on the outside engages electromechanically. Without authorisation, the external handle remains disengaged. Doors can be opened from the inside without identification media at all times. The extremely durable, sleek fitting is mainly used for composite doors in internal areas. All authorisations are managed using the KESO K4 software and are assigned offline. This provides a variety of options for configuring accesses. The door can be programmed to stay unlocked during office hours, for instance, or for user groups who are restricted to a specific time slot.

**Benefits**
- Contactless access using RFID identification media such as a keycard, Tag, or KEK combi key
- Compatible with the KEK range
- Distinguishes between up to 8000 access media
- Simple retrofit
- Managed by KESO K4 Software (From Version V4.0.27)
- Offline-programming with KESO KEK Programmer PPG V2 or USB
- Programmable function for keeping door unlocked
- User-controlled function available for keeping door unlocked (office function)
- Person-specific, time-limited access
- Scheduling for public holidays
- Adjustable optical and acoustic signals
- Adjustable timing for the opening signal
- Emergency power supply

**Requirements:**
Authorisations assigned offline via KESO KEK Programmer PPG V2 or USB. Management and programming via KESO K4 Software (From Version V4.0.27).

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**Technical data**
- Operating temperature: -20° to +70° C
- Air humidity: 10 - 95 % (non-condensing)
- Power supply: Three 1.5 V alkali manganese cells type LR03 (AAA)
- Protection rating: External side and internal side IP54
- Electronics: KEK electronics inside fitting, antenna in black synthetic casing outside fitting
- Dimensions: 282x40 mm
- Surface: Satin stainless steel, other surfaces on request.
- Interface: serial and KAPI*
- Standards: ESD/EMV

* KESO Advanced Programming Interface

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1. The fitting is mainly used for full-leaf doors in indoor areas.
2. Contactless operation and serial interface.
3. KESO identification media is used for contactless unlocking.
KEK Components

The KEK Components can be mounted faster and more clearly using the KESO KEK Connection Box.

**KEK Connection Box**
A wide variety of components can be integrated into the KESO KEK Connection Box. Depending on the application, the connection box can be expanded with electronics or an emergency power supply. The benefits can already be seen from the provision of all parts to the swift assembly.

**Benefits**
- Component overview
- Pre-assembly of the components
- Fast final assembly
- Components protected through casing
- Everything in one place

**Optional fittings**
- KESO KEK Electronics
- KESO KEKnet Access
- Drive lock control unit

**Optional accessories**
- Emergency power supply in separate box

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![Diagram of KEK Connection Box and components]

Power supply  |  KESO KEKnet Access  |  KESO KEK Genie Electronics
---|---|---
Clips  |  Relay  |  Motor lock control
---|---|---
Emergency power supply

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Usage examples of the online solutions show the further benefits of the KESO KEK Connection Box.

**Usage I:**
Usage example KESO KEK Genie Cylinder online Doors
- KESO KEKgenie Cylinder
- Components Connection Box
- Power supply:
- KESO KEKgenie Electronics
- KESO KEKnet Access

**Use II:**
Usage example KESO KEK Genie Cylinder with electronics in face plate online Doors
- KESO KEK Genie Cylinder
- KESO KEK Genie Elec Face plate
- Components Connection Box
- Power supply:
- KESO KEKnet Access

**Use III**
Usage example KESO KESO Batchless with KESO MOZYeeco online Doors
- KESO MOZYeeco
- Components Connection Box
- Power supply:
- KESO Batchless Electronics
- KESO KEKnet Access
- Reader
- KESO Batchless Version
  - Indoor or Outdoor
Network technology

KESO KEKnet networks security solutions centrally.

KESO KEKnet
The KESO KEKnet technology connects mechatronic lockings via the computer network (Ethernet). The KESO KEKnet Access is used as the interface between network and locking. The user uses the KESO K4 Software to centrally control and manage the lockings.

KEKnet compatible

Benefits
- Centrally-controlled via KESO K4 Software
- Remote diagnostics
- Remote programming
- Easy to set up
- Low maintenance costs
- Compact
- Compatible

Requirements:
- Network Card: Ethernet 10/100Base-t
- Software: KESO K4 net16 or higher

Examples

- Personal Computer
- KESO KEKnet Access
- KESO KEK Genie
- KESO KEKnet Access
- KESO Batchless with KESO MOZYecco
- KESO KEKnet Access
- KESO Batchless with Motorised Lock
- KESO KEKnet Access
- KESO Batchless Outdoor with Motorised Lock
Editorial

Security is a huge word. It includes both technologies and those emotional aspects which occupy us on a daily basis.

Bespoke security concepts always require outstanding quality, a skilled partnership and perfect solutions. The KESO brand lives up to its promise and always aims to meet the high requirements of its customers at all times.

The central task of KESO in its role as a competence centre is to quickly identify the most varied of requirements and to successfully ensure more security in your world using the most modern technology. Today KESO has an international network.

Notes

Online and Offline

The KESO K4 Software combines all requirements of the modern management of locking systems. The management, programming and online control per mouse-click with one application is unrivalled as far as its user-friendliness is concerned.

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Today KESO is the supplier who combines high-quality mechanical locking systems with modern electronic high-tech systems. Enabling mechanical systems to be managed offline with software and mechatronic systems to be organised offline and online.

These benefits can be seen with private house doors or on a garage door of a detached house and can also extend to highly-sensitive, complex sites of large companies and institutions. The individual components are totally compatible with each other and contain every implementation of master key systems. Crucial for the secure usage in everyday life is the precise statement of needs and the careful fine-tuning of all systems. And this is where the KESO specialist expertise starts and which encompasses all the steps from the concept to the control.

A high frequency of people demands maximum security, and for this reason KESO offers specifically developed solutions for all sector requirements. KESO guarantees many years’ operability at the lowest costs and simple, practical operation. KESO’s wide experience in the following system solutions really make it stand out from the crowd:

1. Hospitals and care homes
2. Industry and trade
3. Sport & culture
4. District communities and administrations
5. Banks & insurance companies
6. Transport & Logistics

References

Small on components, big on efficiency.

Specific for every sector.

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KESO AG
Security Systems
Untere Schwandenstrasse 22
CH-8805 Richterswil
Phone: +41 44 787 34 34
Fax: +41 44 787 35 35
info@keso.com
www.keso.com

KESO GmbH
Maurerstrasse 6
D-21244 Buchholz i.d.N
Phone: +49 4181 924 0
Fax: +49 4181 924 100
info@keso.de
www.keso.de

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