

ecosystems

intelligent security



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Allowed for :  
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**Intelligent Key Management Systems**  
ecos plus – efficient management  
ecos secure – secure storage

# Key management Systems from ecos systems

## User friendly and safe storage



Key management systems from ecos systems have been developed for the secure storage and complete registration and logging of distribution and returns of keys and other small items, such as mobile phones or tools.

The consistent development of our security systems have made us the market-leader for key management systems in Germany. The unique user-friendliness of our hardware and software, technical innovations, upgrade and maintenance services, as well as the by comparison low acquisition costs offer our customers the desired investment security – for years to come.

At the same time our systems are customized to the needs of our customers. From the simple logging of key withdrawals – up to and including individual and time-limited access – we offer the necessary security level on demand, e.g., for health services, car dealers, security services and industrial and national sites with high-level security areas.



### Efficient management

Personalised access authorisation permit the opening of the door. Access is through either the integrated keypad with a personal identification number, and/or ID card, or by biometric identification.

All actions are constantly monitored and permanently registered in the data base. Every key withdrawal and return is associated unambiguously with a specific user.

Individually adjustable security levels allow graduated alarm variations. Unauthorized actions, e.g., forcible access or time overruns are recognized immediately and reported.

## ecos plus

### For large numbers of keys

The system ecos **plus** is optimized for the efficient and simple management of a large number of keys and small parts.

A solid steel door prevents unauthorised use. Opening the door is possible only with personalised access authorisation.

With an integrated chip each key can be identified unambiguously by a Key/Plug-combination and associated with a certain slot.

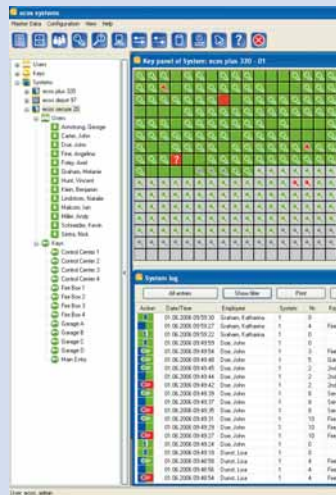
In contrast to our system ecos secure in which the protection of single keys is the focus, the system ecos **plus** emphasises ease of use for your employees and the complete documentation of the whereabouts of the keys.

### Simple operation – the ecos software

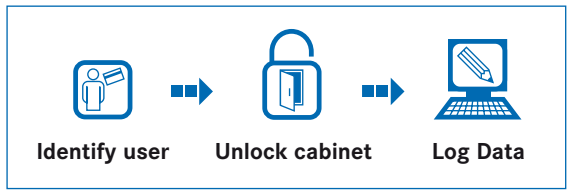
The ecos systems application program can be used to administer our products **ecos plus**, **ecos secure** and also the Safety Deposit Units of the product series **ecos depot** and **ecos safe** centrally. The ecos software uses the usual Microsoft functionalities, for example *Treeview* and *drag and drop*, to introduce more intuitive operability and simpler learnability.

The special evaluation functions allow efficient and meaningful analysis of collected data which can be printed out as reports. Using different formats (.csv-, or ASCII), this data can be exported and be analyzed in other applications, such as Excel. It is also possible to integrate employee or key data into the data base with the import function.

Specially created software modules for the automatic calculation of work and usage times (e.g., vehicle, space rent) allow an uncomplicated and reliable economic evaluation of the recorded data.



Standard protocol and key overview boards





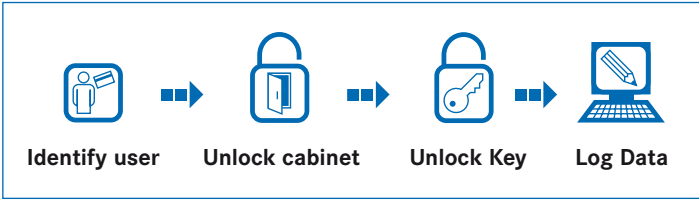
### Unequivocal identification

The intelligent plugs are fastened to the keys by means of security locks. These ID plugs are encoded with an integrated chip.

The system ecos **plus** ensures that the key fastened to the intelligent plug is always unambiguously identifiable.

The system ecos **secure** also can block a specific plug to restrict access to specifically authorized persons.

## ecos secure



### Individual Key Management



The system ecos **secure** is designed for the secure management of keys in critical and security relevant company sectors. It offers increased security through the use of a double lock access system.

Through the coding of the intelligent plugs and individual sector locking any user may receive authorization for any key.

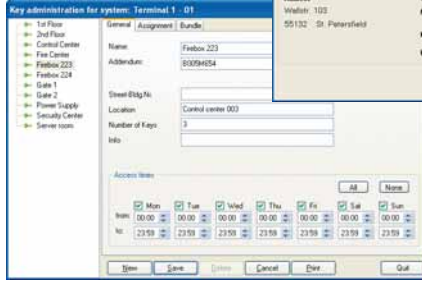
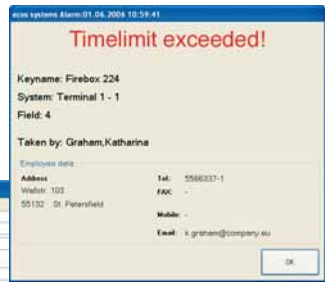
Light-emitting diodes show each user which keys have been personally authorised for him.

The authorization of keys is time-dependently programmable for individual users or for groups.

### Multistage alarm systems

The multistage alarm system immediately reports forcible access, unauthorized withdrawal or electrical failure with optical and acoustic warnings on site and in the control centre.

The incident is simultaneously logged and can be passed on automatically as an E-Mail to the responsible employee or an external security service.

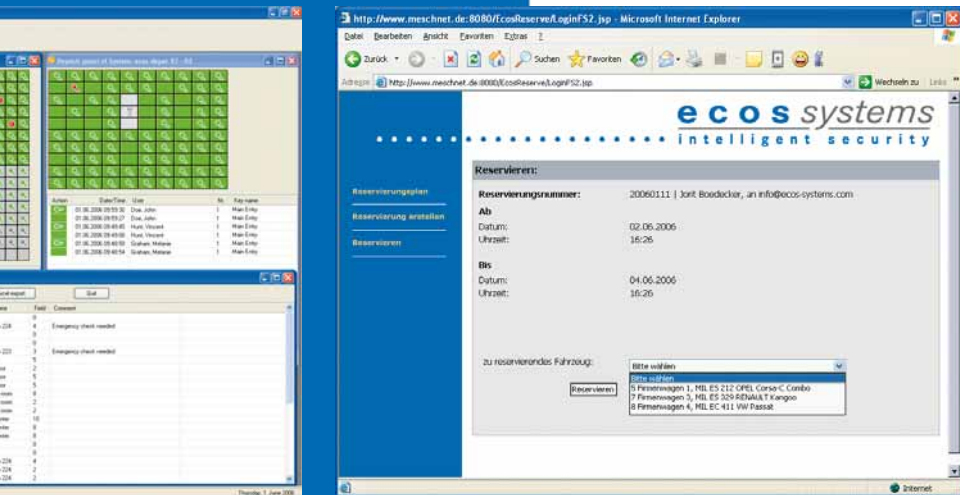


### Cutting edge communication

Intranet (TCP/IP, WiFi, Bluetooth), phone connections or Internet allows for permanent as well as temporary authorization of keys from remote workplaces.

The ecos software allows, within the scope of possibilities of the utilized database, any number of users or employees decentralized access to an arbitrary number of systems (ecos plus, ecos secure, ecos depot, ecos safe).

The browser-based reservation module allows an efficient use of available resources, for example vehicles, conference rooms or laptops/PDAs.



Browser-based reservation module

## Configuration ecos plus/ecos secure

### System Cabinet

- steel Cabinet
- keypad
- LCD Display
- integrated loudspeaker
- integrated microprocessor
- mechanical emergency opening
- potential free alarm contacts
- 240V power supply voltage
- emergency power source

### Access Control Systems

- PIN input
- chip card reader (optional)
- non-contact identification (optional)
- biometric identification (optional)

### Alarm levels

- acoustic warning
- optical warning
- SMS alarm message (optional)
- alarm to emergency centre (optional)
- gate/door control( optional)

### Connection to Intranet

- via stand alone computer (RS 232)
- via TCP/IP network card (optional)
- via wireless network (optional)
- via RS 485 network (optional)

### Remote Control

- via analog-, ISDN-, GSM-modem (optional)
- via Internet (optional)

### System Requirements

- Operating system: Windows 2000, Windows XP, Windows Vista
- Computer: Pentium IV or comparable, min. 512 MB RAM, 500 MB HDD storage
- Database: MSSQL as MSDE, Link to MSSQL (optional), Link to Oracle (optional)

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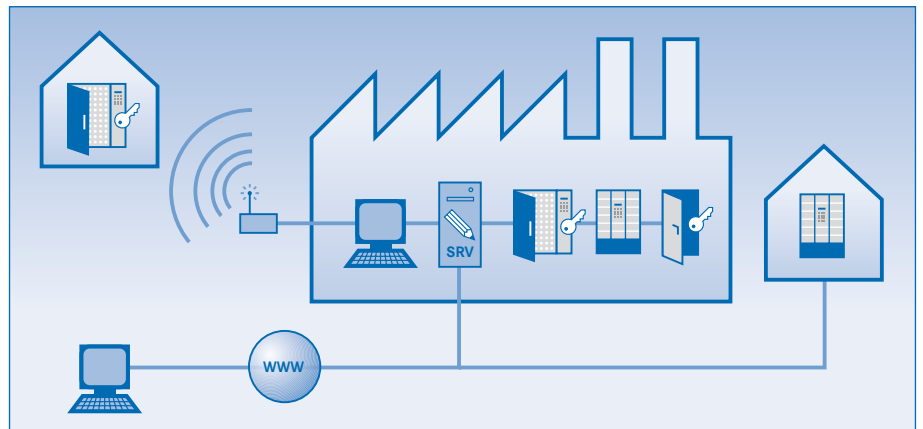
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## Selfsufficient and decentralized

- Power-grid independence can be guaranteed by use of an optional (rechargeable) battery. Depending on the amount of usage, grid independent operation is possible for up to two days.
- Through the use of an integrated microprocessor the system may be used independently of a computer. A query of key whereabouts or last use is possible using the display query on site.
- A TCP/IP address can be assigned when using a network card which then allows direct data exchange over the Intranet/Internet.
- The system can be directly addressed for data communication by nonlocal computers with the installation of a modem and connection to a telephone network.
- Wireless data transmission allows local independence and avoids laying of cable.
- Remotely controlled authorization of defined keys (ecos secure) for specified users and user groups.

## Integration into your company

- Proprietary contact-free admission control systems, for example Legic, Mifare, Hitag, Unique or HID can be integrated at any time.
- Received data are available through defined interfaces to your timekeeping system, admission control system or ERP programs.
- Docking to your in-house database (e.g., MSSQL, Oracle) simplifies the time and effort necessary for the maintenance of your data.



System (No. of insertion points)		Dimensions W x H x D (mm)	Weight ecos plus	ecos secure
ecos plus 20	ecos secure 20	approx. 700 x 500 x 200	approx. 20 kg	approx. 25 kg
ecos plus 40	ecos secure 40	approx. 1000 x 500 x 200	approx. 25 kg	approx. 30 kg
ecos plus 60		approx. 1000 x 500 x 200	approx. 30 kg	
ecos plus 60+	ecos secure 60	approx. 1000 x 700 x 200	approx. 35 kg	approx. 40 kg
ecos plus 90		approx. 1000 x 700 x 200	approx. 35 kg	
ecos plus 120	ecos secure 90	approx. 1300 x 900 x 200	approx. 50 kg	approx. 55 kg
ecos plus 160	ecos secure 120	approx. 1300 x 900 x 200	approx. 50 kg	approx. 60 kg
ecos plus 240	ecos secure 180	approx. 1200 x 1550 x 200	approx. 70 kg	approx. 85 kg
ecos plus 320	ecos secure 240	approx. 1200 x 1550 x 200	approx. 75 kg	approx. 90 kg
ecos plus 480	ecos secure 360	approx. 1300 x 1900 x 400	approx. 160 kg	approx. 190 kg
ecos plus 640	ecos secure 480	approx. 1300 x 1900 x 400	approx. 165 kg	approx. 200 kg

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