

ecos *systems*



ecos key management

Protect your keys. They are your most valuable asset!

State-of-the-art technology to secure your keys – using the highest quality for optimum efficiency

All ecos systems are fully stand-alone units and can be administrated through the **ecos webman** web application. Ecos systems run on the most advanced ARM processors. The Android operating system provides stability and is constantly updated.

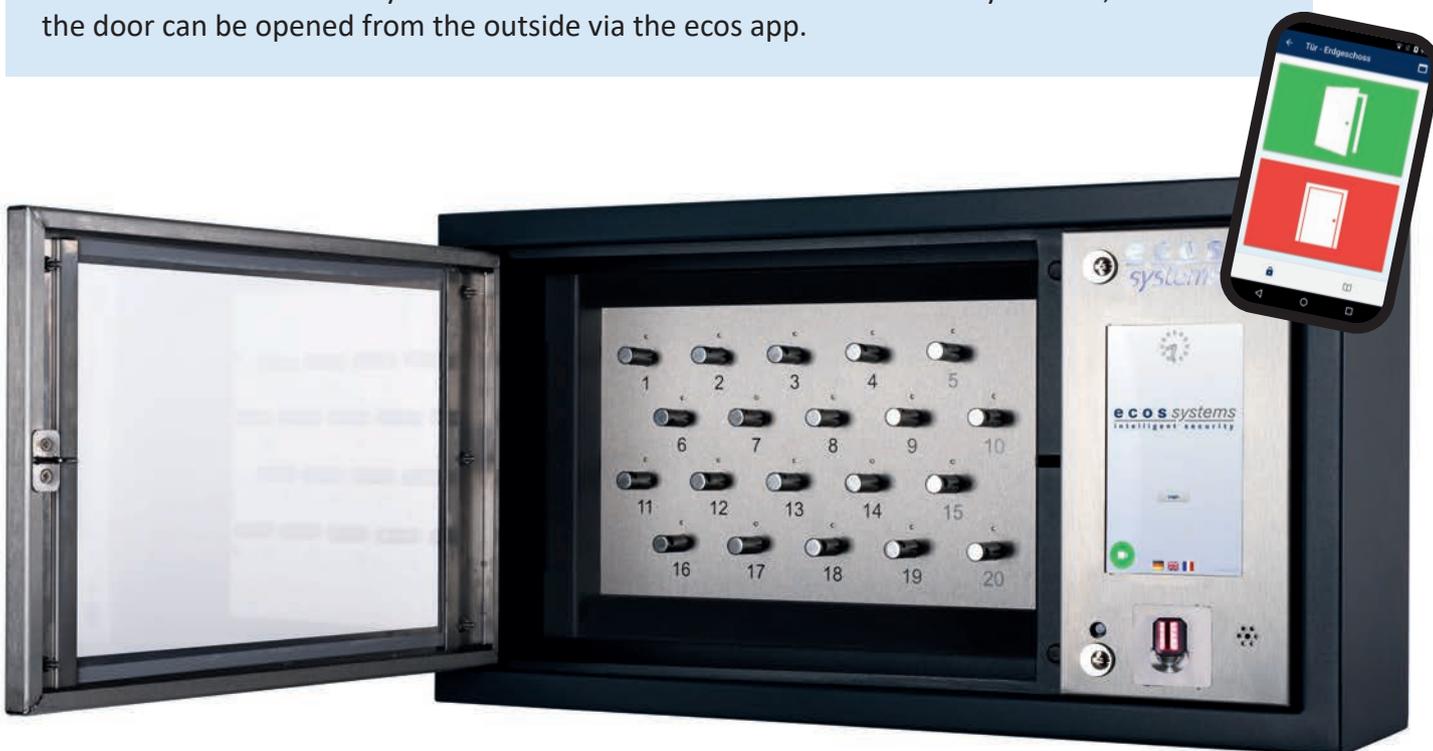
The **ecos apps** for Android and IOS are freely available. Thus, smartphones or tablets can also be used for operation.

The newest generation, the **ecos premium** product line, features state-of-the-art security and quality. Cabinet doors are made of high-grade stainless steel and are reinforced with a security frame. Hinges are mounted inside the cabinets and doors open automatically. Handles are no longer needed. High-quality security locks round off the system.

The **emergency battery** ensures all functions even in the event of a power failure.

The ecos key cabinet as a smart lock for your entrance door

With smart technologies, you can modernize your company quickly, securely and inexpensively. If the electric door lock of your entrance door is connected to an ecos key cabinet, the door can be opened from the outside via the ecos app.



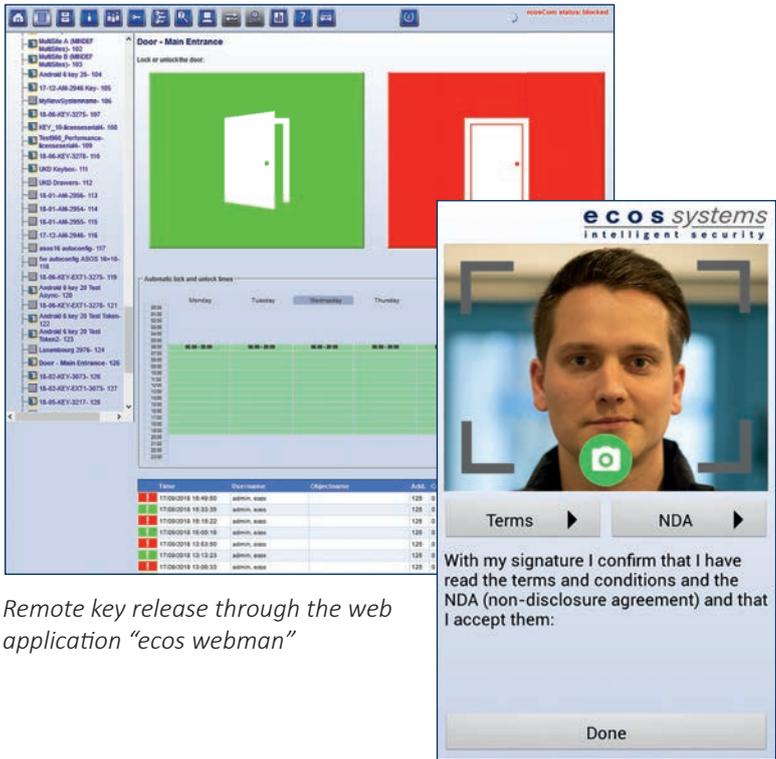
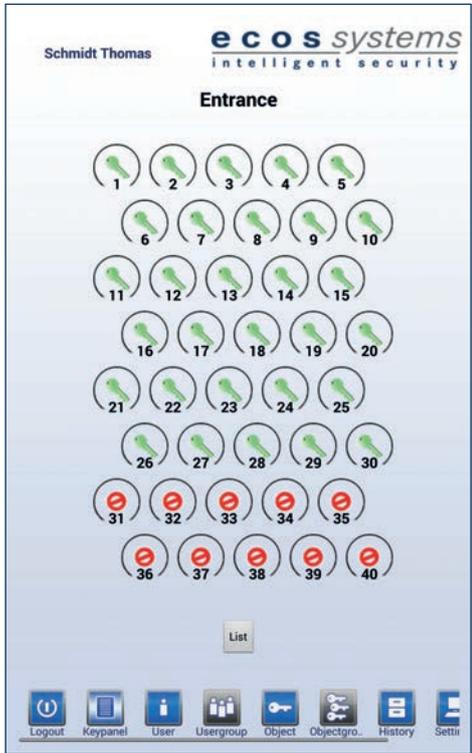
ecos key 80 with polycarbonate door, 7" control unit and integrated fingerprint reader, 5 MP camera, microphone and speaker

The key cabinets are operated by an industrial-grade tablet conceived for continuous operation. Using the latest Android operating system, ecos systems can constantly provide customers with the most advanced communication technologies and the best possible user experience. Additionally, it is possible to integrate customized user interfaces for even better usability.

A simple interface between user and device is crucial to achieving a high adoption rate amongst system users.

Our high-resolution color display with capacitive 7" touchscreen, ensures high visibility and ease of use, using techniques from the latest smartphones, including swiping and zooming.

The integrated 5 MP camera as well as the microphone and speaker allow for interactive video communication.



Remote key release through the web application "ecos webman"

Visitor management

All systems can be equipped with interactive communication. After pushing the video chat button, every person with a IP-enabled phone can be called.

Keys can be unlocked remotely either through the web application or through the ecos app.

For security reasons, the user can be asked to acknowledge the company's internal regulations through a signature field paired with an authorization photo taken, before the key can be unlocked.

Systems

For stability and safety reasons, all cabinets consist of a monocoque-style, compact steel housing with an integrated control unit. In case of failure of all electronic functions, the door has a manual key override; then all key slots can be mechanically unlocked quickly and without the use of any tools.

All systems are equipped with modern ARM processors, 7" touch screens and 5MP cameras with microphones and speakers. This allows for video communication with the control center or a technician directly at the system.

Alarm contacts for both doors, an emergency battery and security locks secure the system. Additionally, an independent monitoring board serves as a "watchdog", which sends out alarm messages even if the mainboard is out of service.

Systems	Key Positions	Appr. Size inches (W x H x D)	Weight lbs (max.)
ecos key 20	10 - 20	25.6 x 13.8 x 7.1	66
ecos key 40	20 - 40	25.6 x 20.9 x 7.1	88
ecos key 80	40 - 80	25.6 x 34.7 x 7.1	110
ecos key 120	80 - 120	37.8 x 28.7 x 7.1	132
ecos key 180	120-180	37.8 x 72.4 x 7.1	231
ecos key 240	180-240	37.8 x 72.4 x 7.1	243
ecos key 360	240-360	37.8 x 72.4 x 7.1	265
ecos ext 360	240-360	31.9 x 72.4 x 7.1	220



ecos key 120

ecos key 180, 240, 360

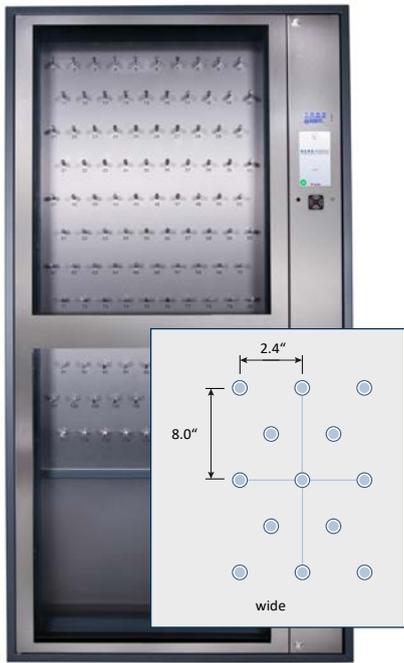


ecos key 20

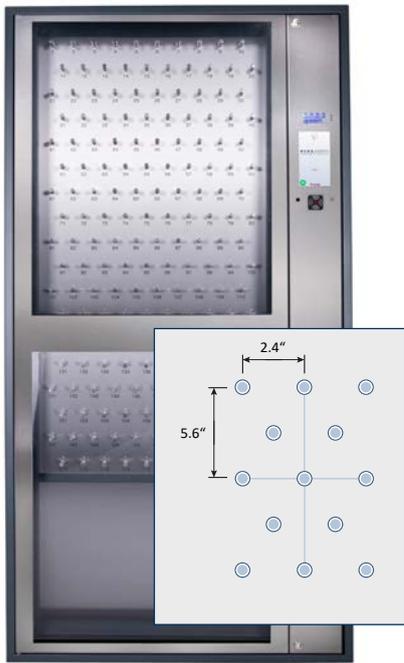
ecos key 40

ecos key 80

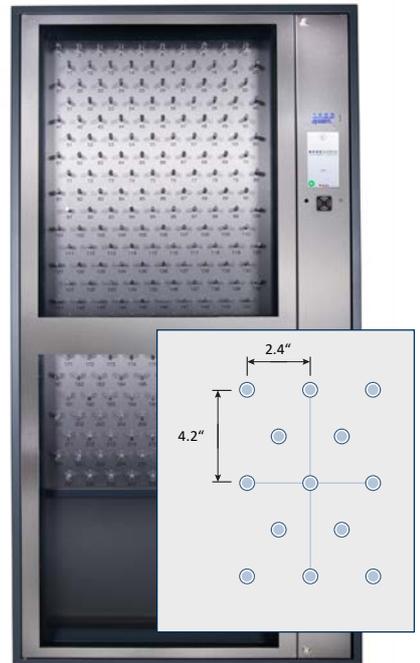
The new key cabinet size XM replaces the previous large models L, XL and XXL. The XM model is equipped with supporting feet. Here below are all variations of the model.



ecos key 120 wide



ecos key 180



ecos key 240

If expansion is required at a later date, slots that are still unused can be activated at a later date. Through additional extension systems (ecos ext), an existing system can be extended to up to 5,000 slots. A space saving alternative is to use the 10" terminal and mount two extension systems back-to-back.



2x ecos ext 360 + ecos 10" Terminal



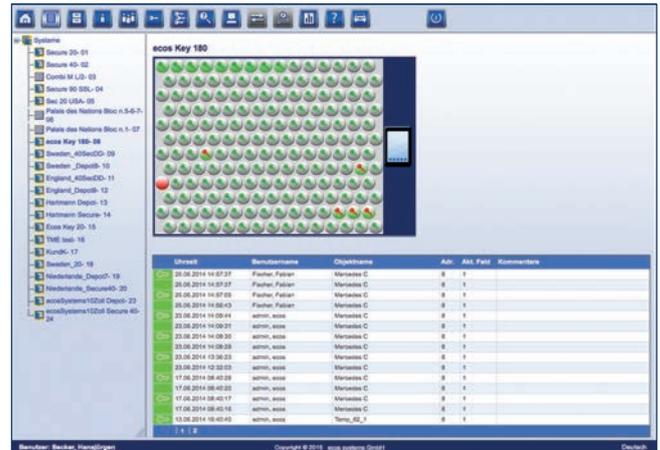
ecos key 360 + ecos ext 360

Software

Our completely web-based application **ecos webman** enables users to log in, supervise and manage the cabinets.

This allows the modification and configuration of users, keys, and access rights for key- and user groups.

Also, the visualization of keys, whether they are in the system or not, the history of key movements, and **who took which key when** can be found in the software.



The software license is final and unlimited in terms of concurrent connections of users and systems. There are no recurring license fees for our software.

Additional modules like **reservation planning**, **fleet management**, and **alarm management** enable efficient integration into your processes.

The AES 256 Bit encrypted communication between the systems and server in your company takes place through Ethernet TCP-IP within a LAN- or WIFI- network.

For the easy integration in your access control- or reservation software, we offer SOAP-Web services. Additionally, it is possible to make reservations directly via your e-mail software through the Microsoft Outlook integration.

Cloud

We successfully offered the ecos software for many years as Software-as-a-Service (SaaS), ISO 27001 certified.

Automatic updates ensure that you are always using the latest version of the software.

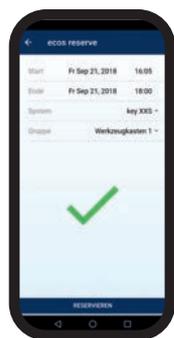
The security of your data is guaranteed by regular backups.

Server capacity, internal maintenance, and administration are no longer your concern.





on site at the system



via smartphone



via internet - ecos reserve



via intranet - MS Outlook

The reservation module **ecos reserve** was developed to efficiently manage the deployment of vehicles, the access to conference rooms, buildings, and electronic devices.

In case of exceeding the determined time limit, it is possible to immediately notify the administrator or the user directly via alarms.

With our solution, you can reserve a key of your choice. Only the keys that are activated are selectable.

Reservations can be made by an authorized user, an administrator for other users, and external guests who received a single-use activation PIN code.

The booking details are automatically sent to the reserving user by e-mail.

System Security



RFID reader

The authentication on the key cabinet can be done via PIN code, RFID card or biometric reader. For additional security, the identification methods can be combined. For example, fingerprint and PIN code.

Our multi-technology reader is compatible with all standard RFID protocols such as Legic, Mifare, DesFire, I-Code, HID, HID Prox, Hitag, Calypso.

Our systems can integrate your readers with RS232, Wiegand and Data/Clock-protocols.



Fingerprint reader

Furthermore, there is the possibility of multi-authentication and multi-factor-identification where a user can't open the cabinet door or take a specific key without another user also identifying themselves first.

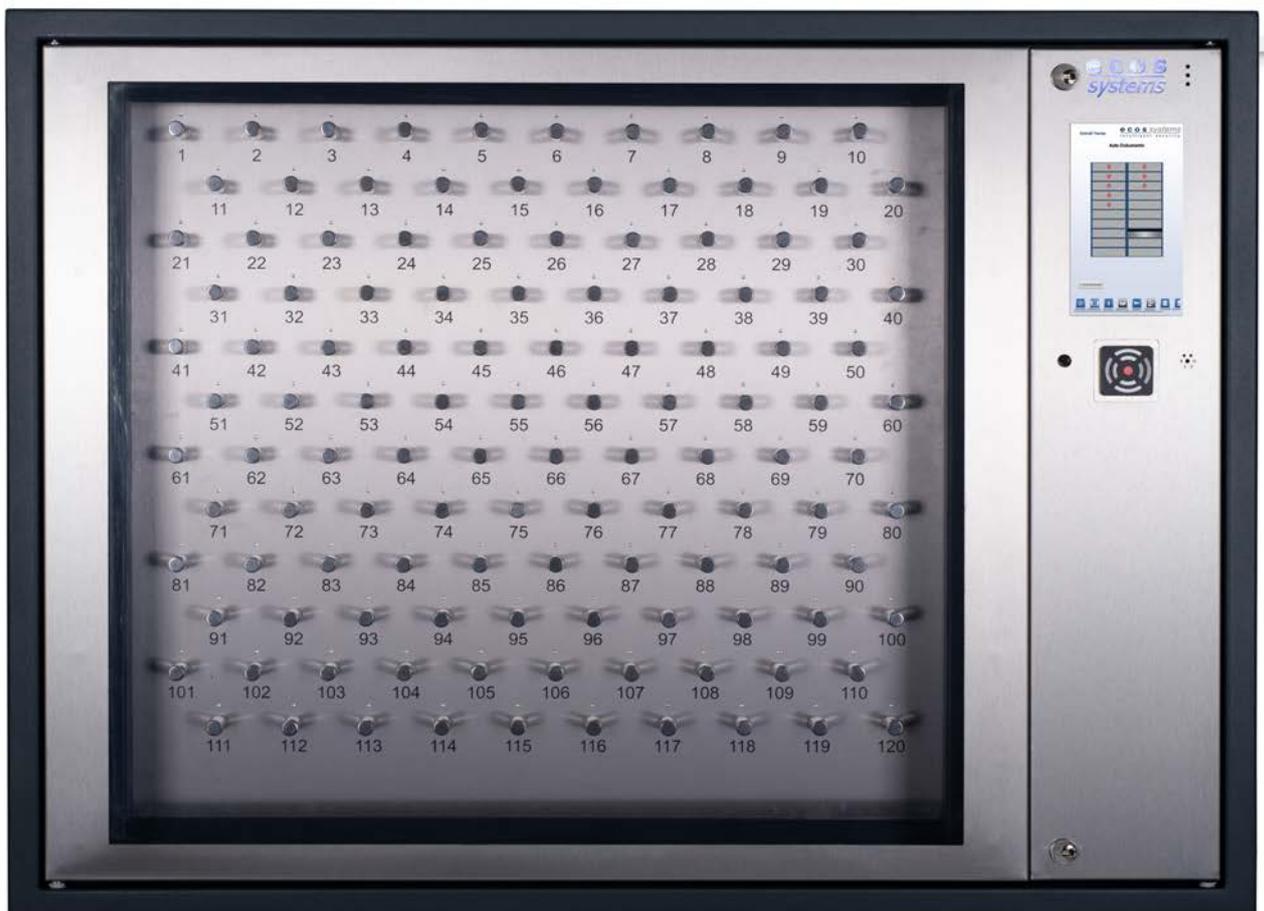
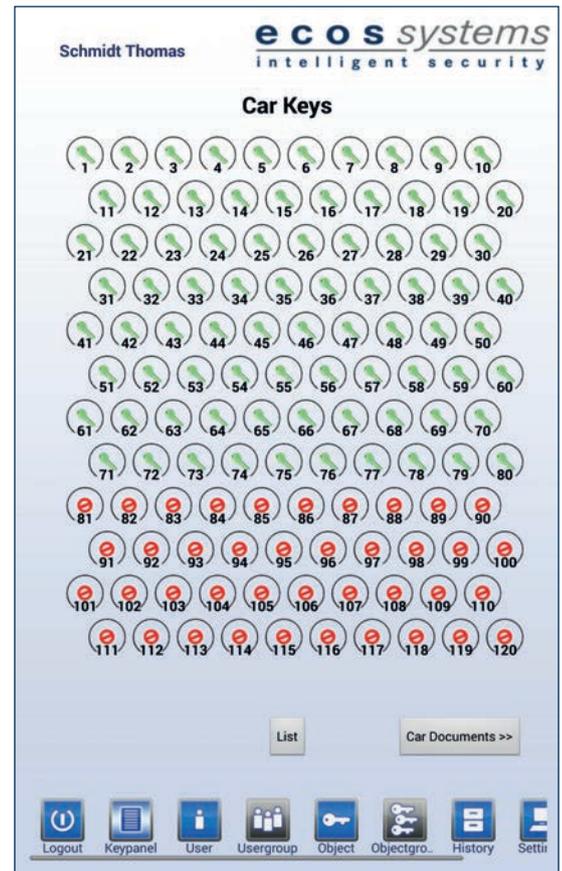
Combinations

Every control unit of an ecos key management system can control any number of ecos lockers or drawers via a connector.

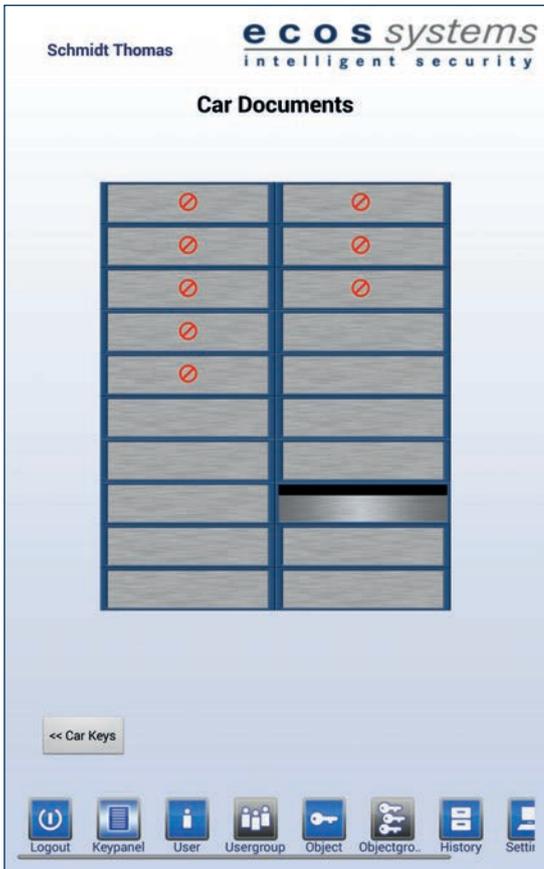
Therefore, essential keys can be stored physically separated from the bulk of less important keys in monitored 1m/4 or 1m/2 drawers.

The ecos drawers are all equipped with electric motors which open and close automatically. This prevents a drawer from being left open on accident. To ensure these keys' highest security, the lockers have an 0.16 inch thick stainless steel front.

The sophisticated graphical user interface enables the unlocking of a key or opening of a drawer by a simple touch on the affected symbol. Objects to which the user has no authorization for are marked as blocked.



ecos key 120 with polycarbonat door, 7" control unit and integrated RFID card reader, 5MP camera, microphone and speaker



1m/4- drawer with ID slot and 0.16 inch stainless steel front



ecos drawer 1m/2



Key Cabinet
key 20 to key 360



Connector
(max. 393.7")

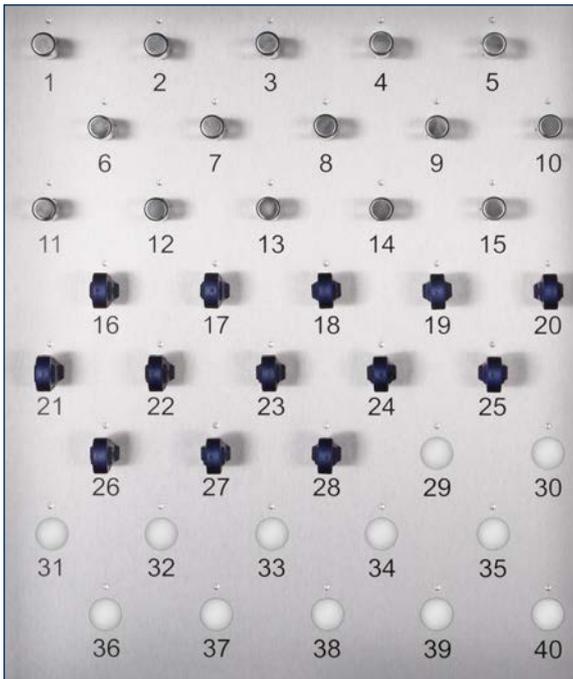


Drawer or
Locker

Example:

- Cabinet size "ecos premium M"
- 7" - control unit
- 5 MP camera
- Microphone & speaker
- RFID reader
- 120 locking positions
- Connector
- 20 drawers 1m/2

Key positions



ecos key 40 front panel with 40 slots

Key positions can be locking or non-locking, depending on the security requirements. A combination of both versions is also available.

By using a license code, further positions can be easily activated at any time in the future.

No need to unscrew the system or an additional technical intervention.

Example:

- 15 locking key positions
- 13 unlocking key positions
- 12 positions still available

The key panel is a polished stainless-steel sheet with printed scratch-proof numbers. The "wide" option is available for large bunches of keys, which doubles the spacing between keys and divides the number of positions by half.



ecos key 80 standard



ecos key 80 wide

ID plugs

The metal plug and metal slot are designed for frequent and extended usage. This is supported by a **5 year warranty**.



*ID standard plug,
without locking*



*ID stainless steel plug,
with locking*





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ISO 9001
Quality management



ISO 27001
Information security



ISO 14001
Environmental management