

RFID, NFC, biometrics  
open technology

Up to hundreds of key  
slots

Data recording

Key management

LAN connection



## Intelligent Key Management and safe storage system



Tel: +46 8 551 51000

[www.loxtore.com](http://www.loxtore.com)

[www.securex.se](http://www.securex.se)

[www.keycabinet.se](http://www.keycabinet.se)



## KeySafe®, AutoSafe, KeyDrawer

The KeySafe System is an intelligent key management and storage system, which is for safekeeping, automated management of keys of buildings, cars and other valuables. The system combines key cabinets, cabinets with drawers, storage boxes and the management software, that can be connected to the ProxerNet building automation IP network and able to work with other systems.

The KeySafe® is a smart safety key-store cabinet, which allows a high safety key management with personal proximity card, PIN code, NFC or optional with fingerprint reader identification. The cabinet locks each key one by one in the slots and lets nobody to take away any of the keys, unless the person has permission to up them. It is possible to connect it to a computer network and to check remotely who and when took which key and for how long time. It can be integrated into a building management system as well.

### Who and when took which key and when brought it back

**Application areas:** banks, government institutions, military, power plants, car dealer, rental, factories, stores, security companies, hospitals, clinics, hotels, motels.

- Intelligent, secure storage with proximity card, PIN code, and/or optional fingerprint opening
- The cabinet can be opened only with authorized ID, access is fully monitorable
- Can be connected to a PC via Ethernet - Wi-Fi option, for management, reports, logs
- Multiple cabinet key management, systemic management of the connected devices to the Ethernet Network
- Recordable data: person, time, keys
- Define access rights to users individually, can be given and withdrawn by keys, via Internet also
- Online-offline communication: automatic or mixed mode communications (itself is also workable – can be programmed through the integrated touchscreen industrial PC and/or with the ProxerNet software on the remote network.)
- Management software of ProxerNet, which can cooperating with the other modules (e.g. access control, time-attendance, etc.)

### Provided services by the built-in industrial PC

- Stand-alone operation, uninterrupted offline operation even in case of network breakdown
- Key search function (Where is the Lexus key? Which position in the cabinet? Or is it in an other cabinet?)
- The log of door opening, keys and the information of the reservation can be seen on the screen
- Key pick-up authority management available on screen with admin access
- At identification, the user's name and ID photo can be showed on the screen

### Options:

- Fingerprint reader. The cabinet door can be opened with the fingerprint
- Vandal safety crimped keyring
- SMS alarm if someone exceeded the time limit, e-mail alert about the movement
- Custom sizes: KeySafe Lock storage capacity 8 from 304 keys, drawer modules 8 drawers, the number of boxes upon request
- Integration to the access control system: enables exit permission only if the user bring back all the keys



With the intelligent KeySafe Lock key cabinets you always know, where are your keys. The key-cabinet opens with personal RFID proximity ID, PIN code or optional with fingerprint. Keys are secured by electric engine driven locks and RFID tags, let them take away only if the user has permission for. Authority management is per key, for person and time period. The opening and closing events will be logged, can be monitored. The system checks automatically if the person is authorized to take that specific key, or not. It monitors also that he put back to the right slot, or not.

The system invoke alerts in case of missing key or overdue keys or by setting if someone fails to put the key in its position. The KeySafe Lock cabinets are suitable for professional use with high safety level.



Key- and Value  
Storage Safe  
Systems

KeySafe Lock 16    KeySafe Lock 32    KeySafe Lock 64    KeySafe Lock 96    KeySafe Lock 112    KeySafe Lock 144    KeySafe Lock 304



**KeyDrawer**  
Drawers for the storage of keys,  
documents and values

**AutoSafe**  
Storage for keys  
documents, values, storage and  
charging of GPS, phones



**ProxerNet Software - KeySafe**  
Management Software

KeySafe system combines key cabinets and storage boxes, forming an IP-based network, which is controlled by a management program. This software is based on SQL database and operates together with the HWServer.

The KeyDrawer safety drawers cabinet can be opened with a personal RFID proximity ID, PIN code or fingerprint identification. Drawers are locked individually, and can be opened only with permission for that specific drawer. The cabinet stores keys, cards, mobile phone, car documentation, etc. It can be specified who has permission to which drawer. The opening and closing events will be logged. The drawer can be opened only by an authorized user, the keys are identified, so will be always known who had taken your keys.

The program handles the person and key database, the key rights and the event log. It knows real time who has taken a key from where and when he has to bring it back.

You will exactly know from the movements data:

1. Where are my keys?
2. What keys a specific user has taken?
3. Who and when had he taken that key?
4. In which cabinet which keys are in?



The AutoSafe be made up of 9-400 pieces independent, numbered safe box, which can be opened/closed only by RFID proximity card or NFC-enabled mobile phone. It can be determined, who can have permission to open which box. The opening, closing events will be logged.

The AutoSafe cabinets are designed for controlled security storage and of high-value items, objects to personal use (mobile phone, tablet, notebook, instruments, car keys, etc.). More cabinets can be connected to one network, and can be monitored and managed via AutoSafe module of the ProxerNet software.



# KeySafe Lock intelligent key cabinet

The KeySafe® is a smart safety key-store cabinet, which allows a high safety key management with personal proximity card, PIN code, NFC or optional with fingerprint reader identification. The cabinet locks each key individually in the slots and lets nobody to take away any of the keys, unless the person has permission to them.

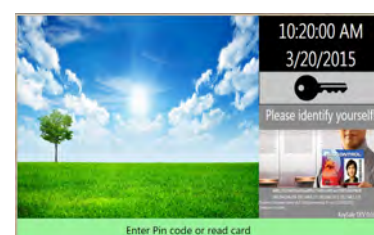
## Offline-online and online type versions

The basic type is made with an built-in industrial PC. This offline-online version allows stand-alone operation, but management is also possible via LAN, by ProxerNet software from a PC on the network. You can manage keys in several buildings from a central office.

The built in touch screen allows an easy, comfortable key management and search.

The optional online version can be managed from a PC connected via Ethernet network. Trough the network an administrator can monitor all key movements, view reports.

Both versions support multi-cabinet systems and a key search function.



## Features

- The intelligent, safety key cabinet can be opened only with ID card, fingerprint or NFC cell smart phone
- User can access key only with permission
- Automatic bolt locked RFID proximity key plugs
- Identification of keys: by RFID key plugs
- Makes records of the door openings, person, time, keys pick-up and putting back in which position
- Capacity of keys (see at subtypes)
- Authority can be given and withdrawn per key
- Authority management via internet, with the ProxerNet management software
- Management via the touch screen and/or remote management
- Where is my key? - function
- Management for several cabinets in one network
- Online-offline communication
- Safety glass door, optional full steel door
- Can be fixed on the wall
- Power supply: 12V (12V/230V, 48 hours UPS)
- Several cabinets can be connected to one data cable
- Modularly expandable
- Robust steel case, indoor design: static powder coated stainless steel cabinet in color RAL7035. Available IP65 outdoor design with brushed stainless steel cabinet, or built in a strong-box.



## Option

- Fingerprint reader. The cabinet door can be opened with the fingerprint
- The door can be opened with the customer's existing cards
- Wi-Fi communication
- Vandal safety crimped keyring
- SMS alarm if someone exceeded the time limit
- E-mail alert about the movement
- The user has to save the actual mileage of the returned car on the touch screen - function
- Integration with alarm system
- Integration to the access control system: enables exit permission only if the user bring back all the keys
- Online version
- Full steel door in stead of the default glass door
- Outdoor design with brushed stainless steel cabinet, roof for weathering
- More cabinets can be in a built together
- Direction of the door opening is eligible

## Elements of the KeySafe System

The KeySafe Lock steel housing, safety glass doors, wall-mounted key box includes: integrated safety RFID magnetic lock, integrated status LED, electro-mechanical locking RFID key slots, RFID key chain, RFID proximity card reader and industrial PC with touch screen, offline-online operation, Ethernet, powder steel housing, indoor design, UPS. The ProxerNet software's Keysafe module (PC running Windows applications) together form a complete system that allows key usage, that can be monitored, managed and integrated with a building management system.

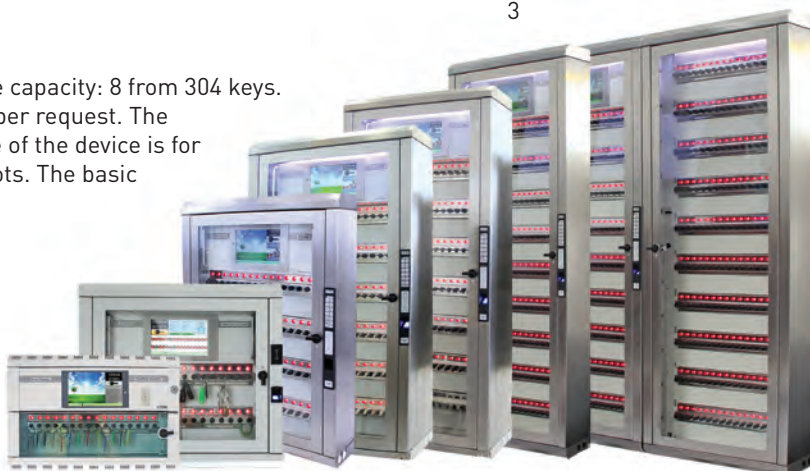
### Optional connection with access control system: permitting leaving only if the person placed his key(s) back to their places

If someone uses a key, has to give it back at least till leaving for the day. He can put it back to a different key safe cabinet than from which he had taken it. The cabinets logged who when and what key he brought back. It sends immediately these

KeySafe Lock storage capacity: 8 from 304 keys.

The number of slots per request. The numbers in the name of the device is for the number of key slots. The basic versions:

KeySafe Lock 16,  
KeySafe Lock 32,  
KeySafe Lock 64,  
KeySafe Lock 96,  
KeySafe Lock 112,  
KeySafe Lock 144.



data to the Host and the Host decides if he is allowed to leave or not. In case of "no", the Host knows that he still has keys that have to be replaced. The Host sends these key's name to the access control system and the gatekeeper would see why the person can not leave the building.



## KeyDrawer intelligent value-store safe

The KeyDrawer is a cabinet with drawers that can only be opened with personalized RFID Proximity card, PIN code or fingerprint identification. Drawers are locked individually, and can be opened only with permission for that specific drawer. The cabinet stores keys, cards, mobile phone, car documentation, etc. It can be specified who has permission to which drawer. The opening and closing events will be logged. The drawer can be opened only by an authorized user, the keys are identified, so will be always known who had taken your keys.

### Features of KeyDrawer

- Intelligent, secure cabinet with drawers, storage boxes that can only be opened with card, pin code, fingerprint
- RFID proximity automatically locked drawers
- The user can open only the specific drawer that he is entitled for
- Permission can be given and revoked per drawer. Without that permission, the drawer can be not opened.
- Door opening log: who, when opens the cabinet and which drawer[s].
- Search function: Where is my key?
- Multi-cabinet drawer management
- Drawer authentication: automatic, with the drawer's transponder
- Numbered drawers, with RFID id locked slots
- Biometric and RFID proximity technology
- Online-offline communication
- Robust steel housing, IP65 outdoor design
- Safety glass door or full metal door
- Several cabinets can be connected to one data cable
- Drawer size: 56 x 96 x 140 mm
- Modularly expandable

The identification of the user with RFID card reader, the identification of keys with the RFID plug.

The KeyDrawer key cabinet has a built-in uninterruptible power supply, which guarantees a 48-hour operation in the case of a power failure. The built-in industrial PC with Window's 8.1, 1280x800 resolution touch screen is for offline management. The industrial PC is placed in a 19 "rack module with the UPS.



From:	10/20/2015	15	To:	10/20/2015	15	Update	Back	Eventlog
Date and time	KeySafe box	Event code	Name	Key name	Pick up place	Slot		
10/20/2015 10:57:04 AM	KeyDrawer (re.)	(540) pick up key	User04	<b>Drawer 1</b>	KeyDrawer (reader)	1		
10/20/2015 10:57:05 AM	KeyDrawer (re.)	(542) return key	User04	<b>Drawer 1</b>	KeyDrawer (reader)	1		
10/20/2015 10:57:06 AM	KeyDrawer (re.)	(540) pick up key	User04	<b>Drawer 1</b>	KeyDrawer (reader)	1		
10/20/2015 10:57:06 AM	KeyDrawer (re.)	(542) return key	User04	<b>Drawer 1</b>	KeyDrawer (reader)	1		
10/20/2015 10:57:17 AM	KeyDrawer (re.)	(540) pick up key	User04	<b>Drawer 5</b>	KeyDrawer (reader)	5		
10/20/2015 10:57:18 AM	KeyDrawer (re.)	(542) return key	User04	<b>Drawer 5</b>	KeyDrawer (reader)	5		
10/20/2015 10:57:20 AM	KeyDrawer (re.)	(540) pick up key	User04	<b>Drawer 6</b>	KeyDrawer (reader)	6		
10/20/2015 10:57:21 AM	KeyDrawer (re.)	(542) return key	User04	<b>Drawer 6</b>	KeyDrawer (reader)	6		
10/20/2015 10:57:24 AM	KeyDrawer (re.)	(540) pick up key	User04	<b>Drawer 7</b>	KeyDrawer (reader)	7		
10/20/2015 10:57:25 AM	KeyDrawer (re.)	(542) return key	User04	<b>Drawer 7</b>	KeyDrawer (reader)	7		
10/20/2015 10:57:29 AM	KeyDrawer (re.)	(540) pick up key	User04	<b>Drawer 6</b>	KeyDrawer (reader)	6		
10/20/2015 10:57:30 AM	KeyDrawer (re.)	(542) return key	User04	<b>Drawer 6</b>	KeyDrawer (reader)	6		
10/20/2015 10:57:31 AM	KeyDrawer (re.)	(540) pick up key	User04	<b>Drawer 7</b>	KeyDrawer (reader)	7		
10/20/2015 10:57:31 AM	KeyDrawer (re.)	(540) pick up key	User04	<b>Drawer 1</b>	KeyDrawer (reader)	1		
10/20/2015 10:57:32 AM	KeyDrawer (re.)	(542) return key	User04	<b>Drawer 7</b>	KeyDrawer (reader)	7		
10/20/2015 10:57:32 AM	KeyDrawer (re.)	(542) return key	User04	<b>Drawer 1</b>	KeyDrawer (reader)	1		
10/20/2015 10:57:32 AM	KeyDrawer (re.)	(540) pick up key	User04	<b>Drawer 2</b>	KeyDrawer (reader)	2		
10/20/2015 10:57:33 AM	KeyDrawer (re.)	(542) return key	User04	<b>Drawer 2</b>	KeyDrawer (reader)	2		
10/20/2015 10:57:33 AM	KeyDrawer (re.)	(540) pick up key	User04	<b>Drawer 3</b>	KeyDrawer (reader)	3		
10/20/2015 10:57:34 AM	KeyDrawer (re.)	(542) return key	User04	<b>Drawer 3</b>	KeyDrawer (reader)	3		
10/20/2015 10:57:34 AM	KeyDrawer (re.)	(540) pick up key	User04	<b>Drawer 4</b>	KeyDrawer (reader)	4		
10/20/2015 10:57:35 AM	KeyDrawer (re.)	(542) return key	User04	<b>Drawer 4</b>	KeyDrawer (reader)	4		
10/20/2015 10:57:35 AM	KeyDrawer (re.)	(540) pick up key	User04	<b>Drawer 5</b>	KeyDrawer (reader)	5		

The entire system can also be built into a SP88XL SS3492 security armored safe.

The key movements, authorization management, alarm and e-mail sending is managed by the AutoSafe PC software.

#### Optional way of usage:

The customer requires a key, and then the staff prepares the key and put in the KeyDrawer. The customer receives the temporary PIN code from the staff. Customer can remove a drawer within the given time period. If the limited time passes, the PIN expires, and the key was not picked up, the cabinet will send an e-mail alert to the specified admin. If someone picked the key up, but did not bring it back in time, the system also sends an alert to the admin via e-mail. The parameters, addresses, expiration dates, e-mail configurations, smtp server, port, protocol, security can be set in the central PC by the AutoSafe manager software .

#### Structure

The KeyDrawer consists of racks of 8 drawers, several subtypes are available based on the required number of drawers. The drawer's size is 56 x 96 x 140 mm. The drawers have a 56 x 96 x 12 mm front board, a 55 x 65 x 140 box-shaped container and a 55 x 96 mm backboard. The front board and the drawer body are AlMgSi anodized profile, the backboard is POM. An RFID key plug is built into the backboard of the drawer, that identifies the key or the set of keys mounted to the RFID plug. Each drawer is equipped with an electronic lock, so the drawers can only be pulled out by an authorized person.



# AutoSafe

intelligent value-store safe

**The AutoSafe is to store valuables, instruments, documents, keys, mobile phones, computers on a controlled and monitorable way. The AutoSafe creates a possibility of security storage with user identification, authorization, testing, and logging. It is possible to recharge or communicate with devices plugged in during the storage.**

The AutoSafe is made of 9-400 pieces independent, numbered safe boxes, which doors can be opened and closed only with RFID card or NFC-enabled smart phone, optionally fingerprint. It is possible to determinate who is entitled to open which boxes. The opening and closing data will be logged. Can be connected to IT network. More safe can be connected to the same network and be monitored, managed via LAN by ProxerNet software.

- Intelligent, safety key—storage with proximity card, PIN code, and/or optional fingerprint opening
- The cabinet can be opened only with authorized ID
- Can be connected to a PC via Ethernet - Wi-Fi option, for managing, monitoring, logs, reports
- Multiple cabinet key management, systemic manage of the connected devices through the Ethernet Network
- Recordable data: person, time, box door
- Define access rights to users individually, can be given and withdrawn by door, via Internet also
- Online-offline communication: automatic or mixed mode communications (itself is also workable – can be programmed through the integrated touchscreen industrial PC and/or with the ProxerNet software on the remote network.)
- Management software of ProxerNet, which can cooperating with the other modules (e.g. access control, time-attendance, etc.)

## Provided services by the built-in industrial PC

- Stand-alone operation, uninterrupted offline operation even in case of network breakdown
- Key search function (Where is the Lexus key? Which position in the cabinet? Or is it in an other cabinet?)
- The log of door opening, keys and the information of the reservation can be seen on the screen
- Key pick-up authority management available on screen with admin access
- At identification, the user's name and ID photo can be showed on the screen

### Option:

- Fingerprint reader. The door can be opened only with authorised fingerprint.







## Structure

The safe has boxes with transparent door. The doors are 6 mm thick, shock-resistant polycarbonate planes, with anodized aluminium profile frame. The AutoSafe lockers can be installed vertically or horizontally beside each other. The cabinet has galvanized steel internal frame, steel paneling and shelves, 6 mm thick polycarbonate doors, anodized aluminium alloy wheel profiles. The back is from a curved, perforated steel plate with 5 x 5 mm punching. The cabinet has a coating with a fine structured powder coated RAL 7035 color. The device is in custom color also available. Through the back plate can be swathed a network or connecting cable, for example an USB data cable. Above each door there is a multi-color LED, which shows that the door is locked, unlocked, and open. The boxes are numbered. Optional unique interior lighting is also available.

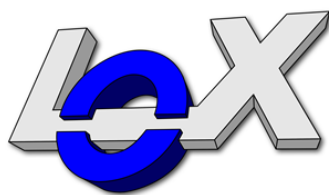
## Offline-online operation (default)

The offline AutoSafe cabinets can be managed on the cabinet itself with the built-in industrial PC, touch screen and RFID-NFC reader and/or via ProxerNet PC software. The industrial PC has metal housing, and built-in a box of the cabinet.

## Online operation

The ProxerNet AutoSafe software is running on the customer's computer in a network version. In this mode only one RFID-NFC reader is built in the cabinet. The software communicates through PCSW commands with the cabinets.





## **Loxtore RFID Systems AB**

141 49 Huddinge  
Regulatorvägen 19.  
Sweden

Tel: +46 8 551 51000  
E-mail: [info@loxtore.se](mailto:info@loxtore.se)

[www.loxtore.com](http://www.loxtore.com)  
[www.securex.se](http://www.securex.se)  
[www.keycabinet.se](http://www.keycabinet.se)



