

PROCONTROL[®]

ProxerSafe Systems

Overview and Comparison



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PROCONTROL ELECTRONICS LTD.

Function

The ProxerSafe system has been created to keep keys, devices, instruments or documents safe, and manage them in a supervised, authorized and online traceable way.

1. If the task is only to keep keys safe, then the **safety key cabinet** is the best choice. The keyring plugs can hold smaller objects too, – laced on the keyring – like RF controllers, remote controls.
2. If besides or instead of the keys other tools, documents, mobile devices, valuables are to be kept safe, then the **storage boxes** with separate doors mean a good solution. There are storage boxes with larger box size for keeping larger objects.
3. If besides or instead of the keys other tools, instruments, accessories, mobile devices, documentations, valuables are to be held in a secure place, the optimal solution can be the **safety drawer cabinet**, with pullout drawers.

Overall description

The ProxerSafe system is a new, complex, modular, manageable safe cabinet system, which fits into the leading international trends like Smart Building, Smart City and Smart Factory.

Its services and configuration can be composed in a flexible way, from local utilization up to the size of cooperative regional or international systems.

All types can be opened with RFID proximity card and/ or PIN code (optionally biometrical identification), and closed with an electronic lock.



Versions

The ProxerSafe is an extendible system, scalable per modules.

Types per function:

- **safety key cabinets** – for keeping keys safe and manage them in a supervised, authorized way
- **value store cabinets** – to keep tools, documents, mobile devices safe and manage them in a logged, traceable and authorized way (in drawers or storage boxes)



Types per design:

- **Industry cabinets** – massive steel housing in external or internal design mainly for industrial or heavy usage – see KeySafe products
- **Office cabinets** – for offices, institutions, homes – see ProxerSafe products
- **Security cabinets** – built in classified safes



Set-up

The cabinets can be installed in a standing or wall-mounted format, with indoor or outdoor design.

ProxerSafe cabinets meet the international standards of 19" rack modules, and can be built into 19" rack towers and certified safes.

All types can be applied together in one cabinet, and handled with the same program, e.g. in one cabinet there may be 16 key plugs and 2 boxes.

Services

By default, the safety key cabinet identifies the person and the key as well. This way services based on the identification of the keys can be offered, like finding a key, booking a key, attachment of a key, alarm set for not returned keys, person cannot leave the building till returning the key, etc. The safety key cabinet with RFID key plugs is able to register the set of keys, and keep and register smaller objects latched on the keyring. The vandal-proof keyring prevents unauthorized access.

At the safety boxes and drawers the person and the authorized box or drawer are identified. There is a built-in „taken" signal in the drawers/ boxes, but it does not show which key, bunch of keys is in them.

At storage boxes and drawer cabinets the identification of the key can be ordered, and in parallel, all the above listed services become available. This option is called key identifier at storage boxes and safety drawer cabinets, and it can be provided by building in RFID readers in every drawer and box.

Another available option at boxes and drawers is that the mobile device kept in the drawer or box can be charged with the built-in USB charger.

Usage

Why the safekeeping of keys, tools, instruments, accessories, documents is necessary? Why does one need to manage and handle them in a supervised, authorized, online traceable way?

Mainly people do these tasks: gatekeepers, storekeepers, who identify the persons, decide upon authorization, issue and retrieve the keys, tools and record the events. However, people may err, be misled or attacked. As the deposits and storages operating with human contribution do not meet all recent requirements in the field of safety, data authenticity and asset tracking, people are looking for automatized solutions. The ProxerSafe system is a perfect answer to fulfill these needs.

For the ProxerSafe System Procontrol has developed the software ensuring the unique intelligence, the safety back-up system, the HMI controller operating panel, the data transfer modules providing the IoT connection, LAN connection, and the ProxerSafe Manager Server controlling all modules belonging to one system, with high security cryptographic communication protocol.

From the developed prototypes, solutions optimized for e.g. the following specialized usages can be put together in an easy, fast and cost-efficient way:

- Institutional key management (gatekeeper machine): Guarded storage and managed handling of keys of premises, rooms and other places
- Key handling machine for car rental companies: monitored and managed handling of keys and documentations of cars rented via web, in national or international networks

- Automated tool dispenser, industrial vending machine: guarded storage of valuable and commonly used tools (like cutters, patterns, measuring instruments)
- Automated dispensing cabinets: safekeeping of medications, drugs, venoms and toxics (in hospitals, retirement homes, medical institutions)
- Automated instrument dispenser: Managed handling of surgical/ medical instruments of a large value, used by more staff members
- Cabinet for depository terminal: Safekeeping, recharging electronic terminals for store keepers working at wholesaler's
- Key management system for real estate agencies
- Park management and control of newly produced cars at automotive factories: safekeeping, managing and recording of keys, documentations
- Automated inventory of small parts: in factories and services, for the recorded, authorized and job number-related issuing of small parts
- Automated document inventory: handling and recording of confidential, personal data.
- Key management of police cars
- Safekeeping and managed inventory of police firearms
- Storage, handling and automated recharging of Tetra radio systems.



Procontrol's Intelligent Storage Cabinet Family, available in 2017 – KeySafe and ProxerSafe cabinets

- **KeySafe Lock Outdoor (KSLO-x)** intelligent key store cabinets in external design, for building management systems and industrial usage in brushed stainless steel housing with safety glass or metal doors; the number of key positions may vary between 8 and 1088 in modules consisting of 8 key positions.

It contains an 8" touchscreen operated, built-in industrial PC, Proxer7 LF RFID reader, UPS and Ethernet interface. It works in offline-online mode; its price contains ProxerNet software KeySafe module.



- **KeySafe Lock (KSL-xx)** intelligent key store cabinets in interior design, for building management systems and industrial usage in powder-coated (RAL70335) steel housing with safety glass or metal doors; the number of key positions may vary between 8 and 1088 in modules consisting of 8 key positions.

It contains an 8" touchscreen operated, built-in industrial PC, Proxer7 LF RFID reader, UPS, Ethernet interface. It works in offline-online mode; its price contains ProxerNet software KeySafe module.

- **ProxerSafe Smart (PSS-xK)** key cabinets with RFID key-holder plugs for hospitals, hotels, homes, hospitals; indoor design with galvanized steel, RAL7035 powder coated housing, with 8-32 key positions (up to 72 key positions with auxiliary cabinet).
- **ProxerSafe Smart (PSS-xK-yB)** combined key and box cabinet for hospitals, hotels, homes, indoor design with galvanized steel, RAL7035 powder coated housing, with 8-32 key positions (up to 72 key positions with auxiliary cabinet) and from 2 to 6 boxes.



- **ProxerSafe Box (PSB-xx)** 450mm cubic cabinets in indoor design with galvanized steel, RAL7035 powder coated housing, with boxes and separate doors; with distinct box sizes. String can be made with multiple cabinets.
- **ProxerSafe Drawer (PSD-xx)** 450mm cubic cabinets in indoor design with galvanized steel, RAL7035 powder coated housing, with drawers; with distinct drawer sizes. String can be made with multiple cabinets.



- **ProxerSafe Box Rack (PSBR-xx)** storage with boxes and separate doors, in a standard 19" Rack module size; can be built into Rack cabinets and safes.
- **ProxerSafe Drawer Rack (PSDR-xx)** storage with drawers, in a standard 19" Rack module size; can be built into Rack cabinets and safes.

The PSBR and the PSDR modules can be combined with key modules.

ProxerSafe Drawers and Boxes – drawer and box sizes

Standard box and drawer sizes and their typical usage, per item				
Sign	usage	width	height	depth
XS	keys, cards	84	50	100
S	key boxes, documentations	84	83	100
S/M	mobile phones, certificates	84	50	200
M	mobile phones, certificates	106	83	240
L	tablets, tools	220	83	240
A4	documents	220	50	310
LT	laptops	423	68	310
A4L	standing folders	220	310	240
XL	tools, handguns	220	210	310
XXL	tools, boxes	423	140	310

Strings can be made by using multiple cabinets.