P A X O S®*advance*

Redundant – Modular – Reliable

Proven Technology

The Paxos® system and Paxos® compact high security locks have been available on the market since 1988. They are widely used on vaults, ATMs, security repositories and many high end security premises. Over a course of millions of operating hours, Paxos® has proven technology and reliability time and time again. Paxos® advance is the logical enhancement of this reliable, tried-and-tested technology.

Maximum reliability by redundant technology

Paxos® advance is the redundant, motorized lock for safes and vaults when it comes to providing maximum reliability, ease of use, programming and installation. Taking the aviation industry as an example, all components relevant to security have been designed for redundant operation to guarantee full functionality at every time of day and night.

- Twofold security

- Maximum availability

- In-depth fault detection

Twofold security

Where ever the highest demands are placed on security and reliability, any modules whose function is critical in the event of a failure must be installed multiple times, or redundantly. To date, this type of redundancy has been used to successfully, and significantly, increase operational reliability within satellite technology, the aviation industry and the storage of security-relevant data. Redundant systems were implemented throughout the Paxos® advance to guarantee the highest possible level of security.

Maximum availability

Full system redundancy means much more than doubling the security. The improbability of two self-contained systems failing at the same time provides a quantum leap when it comes to the availability of redundant units. The double system design used throughout the Paxos® advance provides extensive fault detection, and the highest possible chance of avoiding complete system failure.

Far-reaching fault detection

When Paxos® advance detects a fault, it switches to the redundant part of the system, ensuring the safe or vault can always be opened. The operator is informed about any faults detected. Whilst action can be taken to replace the faulty part, general business can proceed at the customers peace of mind. In addition, the detailed audit log allows precise conclusions to be drawn about the source of the fault, or of a possible security breach.

Versatility by flexible configuration

Based on the standard lock housing, Paxos® advance is able to be effortlessly integrated into the most diverse locking mechanisms.

Versatility
Paxos® advance is the new, fully-redundant motorized lock powered by battery, mains power or UPS. The use of the optional I/O box allows Paxos® advance to be connected to alarm systems, and access control systems effortlessly. The serial USB interface simplifies and accelerates the programming of the system. This saves installation time and cost.

Standardization
The redundant lock case has been refined into a compact design and will retrofit existing mechanical safelocks foregoing additional drilling. Paxos® advance uses encoded connection cables and a cabling structure that prevent incorrect hardware.

Configurability
Paxos® advance can be configured directly on-site using the input unit or USB interface and software. Configuration is easy by utilising the software, and saving the file to copy from one system to another. Existing installations are also easy to enhance at a later date, regardless of number of additional locks or inner compartment locks, or additional alarm signals fitted.

Individuality by a modular system

The high-security locking system Paxos® advance can be adapted to individual requirements thanks to the system modularity.

Modularity

The modular structure of the Paxos® advance allows the system to be harmonized with current or future requirements quickly and flexibly. From a simple single-lock system to fully-configured multiple-lock operation and connection to alarm and monitoring systems, the modular design makes it possible.

Individuality

The intelligent redundant bus system allows locks, input units and I/O boxes to be combined in any way. This facilitates individual system configuration and customer-specific programming using the programming software. We are also well aware that customer requirements can change over time. Paxos® advance is the solution when it comes to a long-term investment in maximum security.

Reliable hardware guarantees invaluable functional benefits. Flexible and easily configurable components allow the system to be adapted to individual security requirements optimally. High-performance, redundant electronic systems enable comprehensive status monitoring and rapid intervention options to ensure security is maintained.

1 Paxos® advance input unit for easy and secure operational convenience with a multi-lingual display

2 I/O box with inputs and outputs as well as a serial audit log interface

3 Patented, redundant motorized lock for the highest possible level of locking security

Input unit

The two tried-and-tested methods of input, keyboard and dial knob, were adopted from the Paxos® compact. The electronic system has been completely overhauled to allow the parallel use of several input units. The menu navigation is self-explanatory.
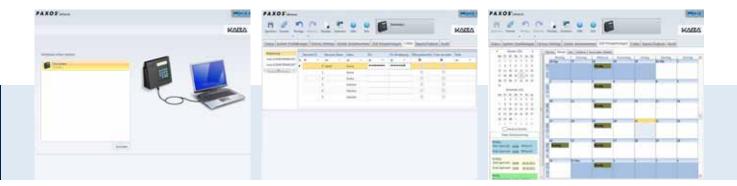
Redundant high-security lock

The size of the lock housing has been standardized. The attachment points were selected to make replacing both mechanical and Paxos® compact locks extremely easy. Despite its more compact design, the Paxos® advance lock is every bit as strong.

I/O box

This important system component forms the link between Paxos® advance and external systems. Configurable inputs and outputs, and an additional serial audit log interface, round off the variety of features provided by the I/O box.

User-friendly software – High flexibility

**The powerful programming software AS 354 allows the complete
Paxos® advance system to be configured automatically. Once it has been
configured, all lock parameters can be set using the same software. The AS 354
makes an impression with its consistently logical and intuitive menu navigation.**

Automatic configuration

The various system components in the
Paxos® advance can be automatically
imported and configured using the pro-
gramming software. The configuration
can be displayed as a diagram to provide
the installer with a fast overview. Addi-
tional components can be added or de-
leted. The AS 354 ensures all compo-
nents are installed correctly at all times,
providing invaluable assistance for
on-site installation.

Role administration for user codes

A further advantage of the Paxos®
advance is the flexible role allocation
for the various user code levels. The
administration of these authorization
levels is given optimum support from
the programming software. The authori-
zations set can be displayed, and be ex-
ported, in a clearly laid-out table, there-
by allowing them to be imported into
other systems in the future.

Detailed event memory

Paxos® advance saves all security-
relevant processes, changes to the
system and fault statuses in its non-
volatile event memory. This provides
detailed, chronological audit of the
events performed at any time. The
AS 354 supports all the user options
standard today, such as filtering for
users and events, exporting the data
in a variety of formats, and extensive
analysis functions. This guarantees that
no attempts to open or manipulate the
system remain unnoticed.

New technologies – New opportunities

When the technology platform for the Paxos® advance was chosen, special focus was placed on being able to adapt and enhance the system quickly and effectively in response to the trends evolving from the security sector at a later date. Opting for Paxos® advance means investing in a clever and cost effective adaptable system.

Familiar features

The customer feedback collected over the last 15 years has been carefully analyzed and evaluated, allowing it to make a valuable contribution to the development of Paxos® advance. From the beloved menu navigation for the input unit to the automatic configuration of any component connected, existing Paxos® compact customers will quickly find themselves familiar with the new system without the need for additional training.

New opportunities

Paxos® advance is fast and easy to program and requires little effort thanks to the user-friendly programming and installation software via USB. The log data are reprocessed to provide more detailed information, and are available in the most widespread formats for statistical analysis. More detailed information on the functions and technical options provided are explained in a fact sheet, available separately.

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