

Reliably secure individual areas in an online/offline system with pKT

Retrofitting is quick and easy

Mechatronic cylinders and fittings can do without wiring

The intelligent and effective solution for securing individual rooms or areas. Also retroactively.

Securing individual areas or rooms at different locations within a company can be done quickly and easily at any time, even without much effort.

The pKT software (prime KeyTechnology) from primion Technology GmbH enables retrofitting with mechanical offline components as well as complete integration into an existing system. The elegant and simple design of the fittings and cylinders meets individual requirements for the respective design concept.



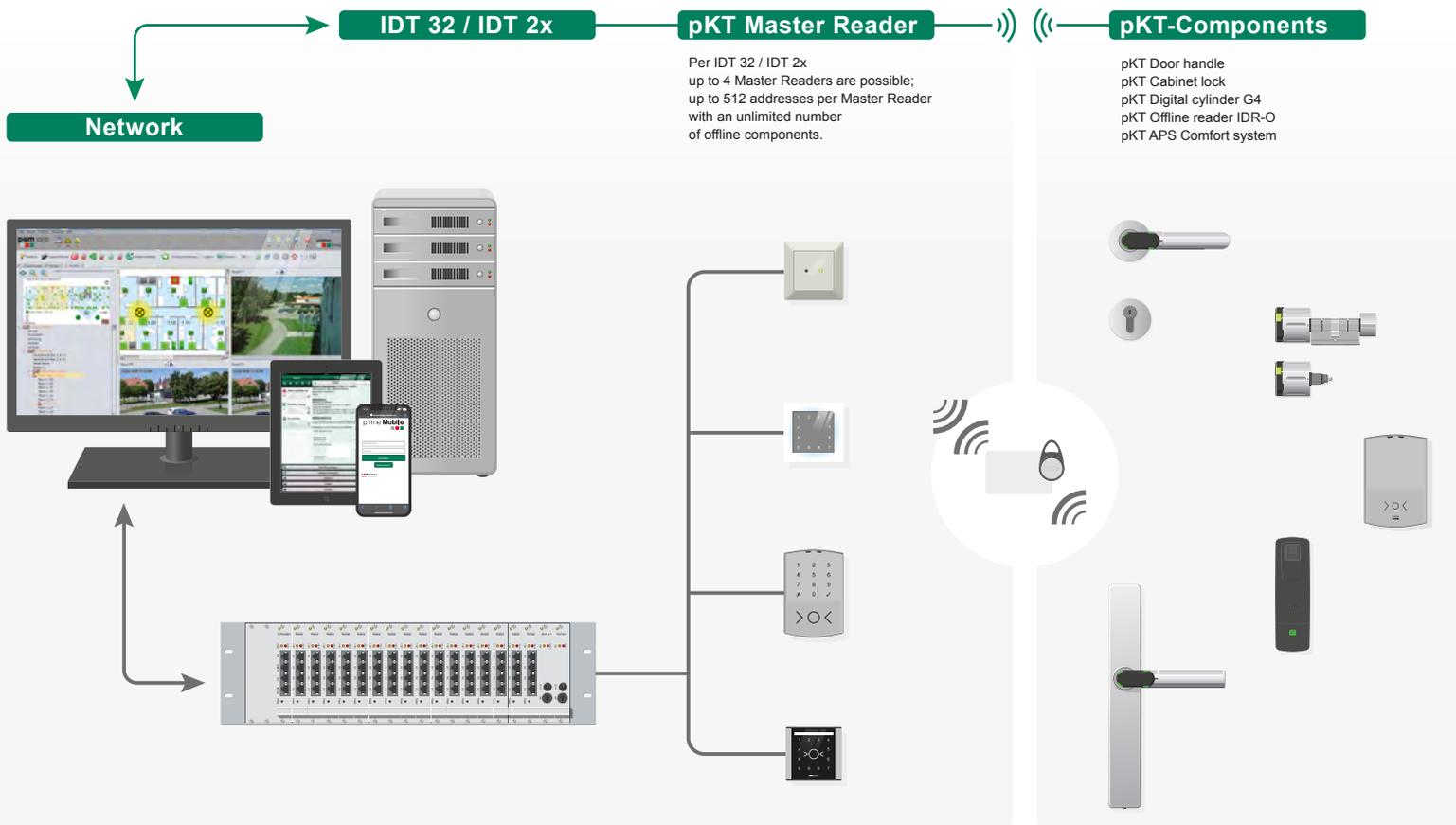
**The installation is very simple,
the operation intuitive and
user-friendly.**

Economical and efficient but safe at the same time.

The pKT system is an offline system. At the outer boundary of the area to be secured, there is an online reader that is connected to the system.

At this Master reader, the user has to “collect” his access rights before the first booking at an offline component. He holds his personal identification medium (ID card, card, badge) up to the Master reader and the reader transfers the access rights stored for the respective person in the system directly to the medium.

The access rights are usually only granted for a previously defined period of time, usually for one day. The user literally carries the rights with his badge, which he “picks up” daily at the Master reader, to the mechatronic components. There is no authorisation logic in the components themselves. Updates to the users’ access rights are made directly on the PC by the person in charge of the company. The new data is automatically transferred to the Master reader, where the user has to “pick it up” it again.



*The Master reader receives the access rights for each individual employee from the system and transfers these rights to the badge.
The components installed in the doors read them out.*

The innovative online/offline system for your individual requirements.

In the pKT system, the fittings and digital cylinders **do not have their own authorisation logic.**

They are **not connected to the system**, but function autonomously and are powered by a long-life battery.

Updates can be entered directly into the system.

The software transmits the previously defined rights directly online to the Master reader, e.g. time-based access restrictions or the definition of the doors for which the access rights are to apply.

The employee or, for example, an external service provider, must therefore always 'collect' the access rights anew from the Master reader.

As a rule, the rights are rewritten on the badge **every day** and automatically deleted after the previously defined period of time.





Assign rights on a daily basis.

prime KeyTechnology (pKT) is fully integrated in the access control software.

A reader is installed at the main entrance and is connected to the system online – the **Master reader**.

By booking on the Master reader, the individually assigned **access rights** are transferred to the badge on a daily basis.

With the badge, the released doors within the building are opened and locked by booking on the mechatronic components installed there, such as digital cylinders or door fittings.

pKT is fully integrated in the access control software **prime WebAccess**.

Electronic locks and cylinders



Advanced Data Reader (ADR)
Master reader for indoor or outdoor use



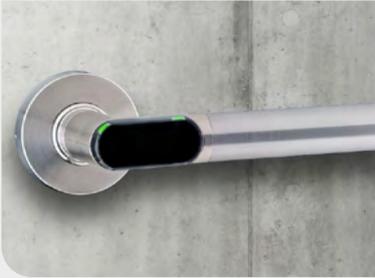
pKT offline reader IDR-O
Master reader decides autonomously on door release



pKT Digital cylinder G3 / G4
Digital cylinder with integrated electronics for indoor use / sealed knob for outdoor use



pKT Knob cylinder
Flexible use due to modular design



pKT Door handle
Electronic lever handle with integrated reading unit



pKT APS Comfort system
Electronic lock for standard and fire doors



pKT Comfort system for glass doors
Electronic lock for interior glass doors



pKT Comfort system for timber doors
Electronic lock for timber doors in interior areas



Cabinet and furniture locks
Modern lock solutions with connection to the access control system

Advanced Data Reader (ADR) Outdoor / Indoor



*ADR Outdoor and ADR Indoor
(ADR Outdoor is available with or without keyboard)*

The readers of the ADR (Advanced Data Reader) series convince with their attractive design and high user comfort. The design is based on the ADT time recording terminals. Readers and time recording terminals are thus perfectly matched to each other. Thanks to state-of-the-art technology, they also meet the highest security requirements.

The surface-coated reader can be used indoors and outdoors. The keyboard version has a capacitive keyboard with 12 keys. This is not subject to wear and tear and convinces with a low service volume.

Features

- Can be installed indoors and in protected outdoor locations
- Modern design, suitable for the ADT series
- Flexible, simple application
- Simple installation
- Low service requirements

pKT master function

- For reading and writing a person's access authorisations
- Access rights are administered in the host system
- RFID credentials are used as virtual information carriers
- Reaction time, typically 1 second
- Special authorised cards are possible, e.g. emergency services

pKT offline reader IDR-O

The pKT offline reader IDR-O is equipped with a MIFARE® DESFire® EV1 or a LEGIC advant® reader. It reads the access rights that have been written onto an access credential by a Master reader with an online connection to the central database, and grants or denies access accordingly. These access rights are made up of several time periods whose overall validity can be set as required. If the credential is not presented to a Master reader for updating before this period has elapsed, the credential and therefore the cardholder automatically loses all access rights to the offline components.

As the access administration is fully integrated in the online system, the access rights of the autonomous offline units are handled easily and comfortably throughout the whole system. No individual programming of the offline reader is necessary. Depending on the system configuration, up to the last 160 transactions are saved on the device.

Features

- **Credential used as information carrier, e.g. automatic booking transfer, blacklist**
- **Integrated RTC component**
- **Individual access rights per cardholder**
- **No on-site authorisation memory**
- **Toggle mode option**
(open with first booking, close with next, open with next, etc.)
- **Two LED's (red/green, yellow)**
to confirm status and commands
- **One door opener relay**
- **Two inputs, one for REx button and one for door monitoring contact**



Additionally, the data can be read out from the offline component at any time using a special transactions transfer card and transmitted to the central database through a Master reader, where it can then be analysed as usual – in compliance with data protection guidelines.

The offline reader contains the complete prime KeyTechnology read and control electronics. Installation is simple. An external 12 VDC power supply has to be made available at the installation site.

pKT Knob cylinder

The newest and most up-to-date digital cylinder from primion is the pKT Knob cylinder. This is fitted with a MIFARE® reader and product versions include a single-sided knob cylinder, a double-sided knob cylinder and a knob half-cylinder.

Needless to say, the knob cylinder is equipped with the pKT software. In this way, the access rights for the autonomous offline components are administered centrally in the Host system, which means that there is no need to carry out a separate programming of the knob cylinder.

Thanks to its modular construction, the cylinder has flexible deployment options. For example, it can be delivered pre-configured in the standard version but it can also be reconfigured on site or even modified retrospectively. In addition, the mechanical knob is available in different shapes, and depending on your requirements, you can choose between a cone-shaped knob, a contoured knob or a knob with a recessed grip.

The pKT Knob cylinder contains the complete read and control electronics as well as the power supply, using standard CR2 batteries. Installation and battery change can be done easily using the special tools.

The pKT Knob cylinder has been developed for use in locks in standard doors, fire-protection doors, emergency exit route doors and glass doors. The half-cylinder is designed for use with key-switch locks and doors that are lockable only on one side. All pKT Knob cylinders are constructed principally for internal use. They can however be used outdoors in locations that are protected from the weather.



Features

- **Use of existing cards/key fobs as virtual information carriers, e.g. battery status, automatic booking transfer, blacklist**
- **Individual access rights per cardholder**
- **No authorisations are stored in the cylinder**
- **Automatic, time-controlled unlocking and locking**
- **Toggle mode option**
(unlock permanently with first booking, lock with next, unlock with next, etc.)
- **Optical and acoustic signalling to confirm commands and to show the battery warning status**
- **Emergency opening option with special tools for battery change**
- **Profile cylinder with Euro profile in compliance with DIN 18252**
- **Battery working life approx. 3 years at 10 operations per day**
(overall up to 50,000 operations)
- **Access rights are administered in the Host system**
- **Reaction time, typically 1 second**
- **Half-cylinder applications are also possible**
- **Suitable for use on fire and escape doors**

pKT Digital cylinder G3 / G4

The pKT Digital Cylinder G4 is installed instead of the usual profile cylinder. It is fitted with a MIFARE® DESFire® EV1 or a LEGIC® advant reader. It reads the access rights that have been written onto an access credential by a Master reader, with an online connection to the central database, and grants or denies access accordingly. These access rights are made up of several time periods whose overall validity can be set as required. If the credential is not presented to a Master reader for updating before this period has elapsed, the credential and therefore the cardholder automatically loses all access rights to the offline components.

As the access administration is fully integrated in the online system, the access rights of the autonomous offline units are handled easily and comfortably throughout the whole system. There is no requirement for individual programming of the door terminal, e.g. through a mobile programming unit.

The last 160 transactions (depending on the system configuration) are stored in the device. This data can automatically be written back to the employee credential at the time of the transaction and then transmitted to the central database the next time it is presented to a Master reader. Additionally, the data can be read out from the offline component at any time using a special transactions transfer card and also transmitted to the central database through a Master reader for further evaluation. Relevant data protection guidelines are taken into account in relation to this transfer of data.

The electronic knob module contains the complete read and control electronics as well as the power supply, using standard CR2 batteries. Installation and battery change are easily done using the special, system-initialised card and tools.



Features

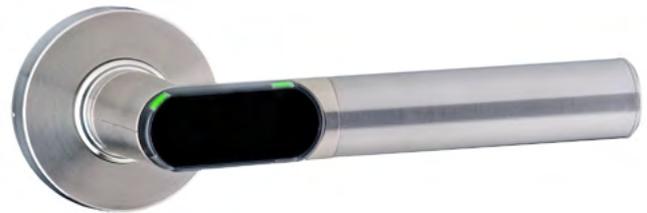
- **Credential used as information carrier, e.g. battery status, automatic booking transfer, blacklist**
- **The electronic knob module can be installed on both sides (from an overall length of 70 mm)**
- **Individual access rights per person**
- **No authorisations are stored in the cylinder**
- **Automatic time-controlled opening and closing**
- **Toggle mode option (unlock with first booking, lock with next, unlock with next, etc.)**
- **Optical and audible messaging (green & red LEDs) to confirm commands and to show the battery warning status**
- **Emergency opening option with external emergency power tool (Low Power Adapter)**
- **Bolt lengths from 35 mm. Applications should be checked on case-by-case basis**
- **Fits all standard profile cylinder doors in compliance with DIN 18252**
- **Battery working life approx. 2 years at 20 transactions per day**
- **Administration of access rights in the host system**
- **Half-cylinder applications are also possible**
- **Suitable for use on fire and emergency exit doors**
- **Sealed, water-protected knob in housing with IP66 protection class**
- **Suitable for installation indoors and outdoors**

pKT Door handle

The pKT Door handle is compatible with many European lock standards. The different versions allow its use in all commonly-used door types, such as wood, steel and aluminium as well as narrow frame doors with a backset of more than 20 mm. This means that it is suitable for both new builds and for retrofitting in existing locations.

Thanks to its timeless, simple stainless steel design, it blends well into every environment.

The reader unit with the communication electronics, the mechanics and the power supply are located directly in the door handle.



Most transponder types can be used as a credential, including for example, ISO cards and key fobs.

Advantages

- Timeless stainless steel design
- Different handle designs available
- With optional round or oval rosettes, short plate, long plate narrow and wide
- Key rosette blank, for profile cylinder (PC) or Swiss profile cylinder (CHR)

Features

- Toggle mode option (open with first booking, close with next, open with next, etc.)
- Compatible with commonly-used European lock standards; existing locks can be used
- Suitable for all wood, steel and aluminium doors as well as narrow frame doors with a backset of more than 20 mm and for all doors with a door leaf thickness from 30 to 110 mm
- Possible spindle dimensions: 7, 8, 8.5, 9 and 10 mm; continuous square spindle

- No wiring required; existing DIN boreholes can typically be used; diameter of the borehole for the handle shank (rosette versions) 24 mm
- Battery compartment located in the housing, accessible from the outside
- Automatic daylight saving time changes
- Permanent external handle engagement possible, without additional power consumption
- Internal handle is mechanically fixed to allow egress at all times
- Electronic reader unit can be installed inside and outside, if required
- MIFARE® and LEGIC versions available
- Indoor version suitable for use with fire and smoke protection doors, depending on model
- IP66 version, suitable for outdoor use in a secured area
- IP66 version suitable for use with fire and smoke-protection doors, depending on model
- Up to 50,000 operations with one battery set (MIFARE® DESFire®)
- Up to 30,000 operations with one battery set (LEGIC advant®)

pKT APS Comfort system

The APS Comfort system (CoSy) represents a further expansion of the pKT range. This electronic lock is fitted with a MIFARE® reader. The pKT APS Comfort system is available both for tubular frame doors and for timber doors.

The APS Comfort system is integrated into the pKT software. The access rights for the autonomous offline components are administered centrally in the Host system, which means that no individual programming of the lock is necessary.

The pKT APS Comfort system contains the complete read and control electronics as well as the power supply, which uses standard CR-V3 batteries.

The pKT APS Comfort system has been developed for use in standard doors, fire protection doors as well as emergency exit route doors. When it is used in fire protection doors, door handles compliant with DIN 18273 FS must be used that have been tested and approved with the following locks:

B2170 lock from the BKS Company (timber doors) and B1970 lock from the BKS Company (frame doors).

Because of the standardly-used split follower, internal and external doors have to be operated independently of each other. This standard function prevents a door being blocked if someone holds onto the handle on one side of the door, for example.

The Comfort system, was primarily developed for indoor use. It can also be deployed outdoors in areas protected from the weather.

Both the Comfort system's covering cap and its face plate are available with a smart stainless steel finish. The antenna cap is made of polyamide and can be ordered in four different colours: pure white, deep black, stone grey and anthracite grey.



Features

- Use of existing cards / key as virtual information carriers, e.g. battery status, automatic booking transfer, blacklist
- Individual access rights per cardholder
- No authorisations are stored in the Comfort system
- Automatic, time-controlled unlocking and locking
- Toggle mode option (unlock permanently with first booking, lock with next, unlock with next, etc.)
- Optical and acoustic indication to confirm commands and to show the battery warning status
- Emergency opening with external power supply (available separately)
- Battery working life of up to 3 years at 10 activations a day. A total of up to 70,000 activations is possible
- Access rights are administered in the Host system
- Reaction time, typically 1 second
- Suitable for use on fire and escape doors
- The latest events, up to a maximum of 160, can be transferred to the database in the Host system through a Master reader, using a bookings transfer card

pKT Comfort system for glass doors

The Comfort system for glass doors (CoSy) represents a further expansion of the pKT range. This electronic lock is fitted with a MIFARE® reader.

The Comfort system for glass doors is integrated into our pKT software. The access rights for the autonomous offline components are administered centrally in the Host system, which means that no individual programming of the lock is necessary.

The pKT Comfort system for glass doors contains the complete read and control electronics as well as the power supply, which uses standard CR2 batteries.



The pKT Comfort system for glass doors has been developed for use in internal glass doors with a so-called Office drill hole and a door thickness from 8 mm to 12 mm. This electronic screw-on lock is delivered with dead latch, without bolt and single-sided authorisation check. It is for combination use with lug-guided handle sets with rosettes for through screw fixing, with a spacing of 38 mm between the screws.

The covering caps are available with a smart, matt brushed stainless steel finish. The antenna cap is made of polyamide and can be ordered in four different colours: pure white, deep black, stone grey and anthracite grey.

Features

- Use of existing cards / key as virtual information carriers, e.g. battery status, automatic booking transfer, blacklist
- Individual access rights per cardholder
- No authorisations are stored in the Comfort system
- Automatic, time-controlled unlocking and locking
- Optical and acoustic indication to confirm commands and to show the battery warning status
- Emergency opening with external power supply (available separately)
- Battery working life of up to 3 years at 10 activations a day.
A total of up to 25,000 activations is possible
- Access rights are administered in the Host system
- Reaction time, typically 1 second
- The latest events, up to a maximum of 160, can be transferred to the database in the Host system through a Master reader, using a bookings transfer card

pKT Comfort system for timber doors

The Comfort system for timber doors (CoSy) represents a further expansion of the pKT range. This electronic lock is fitted with a MIFARE® reader.

The access rights for the autonomous offline components are administered centrally in the Host system, which means that no individual programming of the lock is necessary.

The pKT Comfort system for timber doors contains the complete read and control electronics as well as the power supply, which uses standard CR2 batteries.

The pKT Comfort system for timber doors has been developed for use in interior timber doors, in accordance with DIN 18251. This electronic mortice lock is delivered with dead latch, without bolt and single-sided authorisation check. It is for combination use with lug-guided handle sets.

The Comfort system's face plate is available with a smart stainless steel finish. The antenna cap is made of polyamide and can be ordered in four different colours: pure white, deep black, stone grey and anthracite grey.



Features

- Use of existing cards / key as virtual information carriers, e.g. battery status, automatic booking transfer, blacklist
- Individual access rights per cardholder
- No authorisations are stored in the Comfort system
- Automatic, time-controlled unlocking and locking
- Optical and acoustic indication to confirm commands and to show the battery warning status
- Emergency opening with external power supply (available separately)
- Battery working life of up to 3 years at 10 activations a day.
A total of up to 25,000 activations is possible
- Access rights are administered in the Host system
- Reaction time, typically 1 second
- The latest events, up to a maximum of 160, can be transferred to the database in the Host system through a Master reader, using a bookings transfer card

Locks

The electro-mechanical security locks guarantee the highest mechanical security with self-locking and panic function for use on security-relevant doors. They also combine the highest levels of comfort in use and operation.

Because of the panic function, they are suitable for use in evacuation routes, in line with the latest European standards and can also be deployed in fire doors.

They are tested and approved for use in emergency exits. All locks are approved both in accordance with DIN EN 179 with the supplied face plate and in accordance with DIN EN 1125, whereby separate panic bars are required.

The electro-mechanical security mortise locks impress through the wide range of state messages they can give. The contacts monitor:

Latch out / latch in, control latch, handle operation, tamper loop and profile cylinder.

The mechanical security lock is principally used where insurance requirements call for a guarantee that the door is locked with a 20 mm bolt throw.

The mortise lock with door handle interlock is principally used where the advantage of handle-controlled unlocking has to be combined with the mechanical security requirements of the security lock. The setting of the panic side as well as the selection between quiescent and operating current is done at the lock as required.

There are locks for tubular frame doors and for deployment in full leaf doors. They are delivered with appropriate face plates.

Features

- **Self-locking with cross bolt and latch**
- **Mechanical process control between cross bolt and control bolt**
- **Integrated panic function through the inside handle**
- **Changeover function for unlocking using a key from the outside**
- **Suitable for installation in fire doors**
- **Approvals in acc. with DIN EN 1125 EC and DIN EN 179 EC**
- **Integrated monitoring contacts**
- **For locks with door handle interlock:
Low rear bolt length: 15 mm**

Store documents and objects safely. Cabinet and furniture locks.

With the modern electronic cabinet and furniture locks from primion, employees, customers or visitors to companies or institutions can stow objects in a secure manner.

This can be requested, for example, in school, student or employee lockers, where personal or professional objects or documents have to be kept safe. In hospitals, modern locker solutions ensure that patients' valuables are safely stored in the hospital room or clothing for medical staff. But also in sports facilities such as fitness studios, swimming pools, sports halls or in leisure facilities such as zoos and museums, employees

as well as customers and visitors are guaranteed safe storage of their sports bags or handbags for a certain period of time.

UKE and NORMA use the primion solution successfully:

- At the University Medical Center Hamburg-Eppendorf (UKE), 1,600 cabinets will be protected in this way.
- NORMA Sarrebourg (France) is already using the locker solutions in the employees' changing rooms.



Integration into the access control: Combining several applications



Cabinet lock

The cabinet solution can be quickly and easily integrated into the access control system using the primion online / offline solution **prime KeyTechnology** (pKT).

If the rights are stored in the system, you can use your transponder (chip / ID card) to:

- ▶ enter the building
- ▶ record the working hours
- ▶ operate the elevator
- ▶ open the booked meeting room
- ▶ enter your office and also
- ▶ open your locker / cabinet and lock it again

Thanks to the various operating modes, it is possible to assign a personal locker or cabinet as well as a free choice of cabinet. The operating modes thus reduce the administrative effort to a minimum without restricting the functionality or security of the solution.



Furniture lock

The cabinet solution is flexible and suitable for both left and right cabinets. The furniture lock consists of a G3 / G4 cylinder and a mechanical adapter.

There is also the option of connecting to various primion solutions. The primion ADT 1100 time and attendance terminal can be used to display and delete cabinet assignments.

You decide: Fixed allocation or free choice of locker?

In the software, you determine whether a person receives a permanently assigned cabinet in one or more areas, or whether they can choose it themselves.

On our modern Advanced Data Terminal ADT 1100 you can query which cabinet or locker has been assigned to you as a user and delete this selection if necessary.

Implement your requirements individually

Scenario A Dedicated cabinet / locker

The rights for using the cabinet are already stored on the chip. This means that the locker is assigned to one or more transponders (chip / ID card).

- ▶ It is possible to assign several cabinets to one transponder.
- ▶ It is opened and closed directly via the cabinet lock.

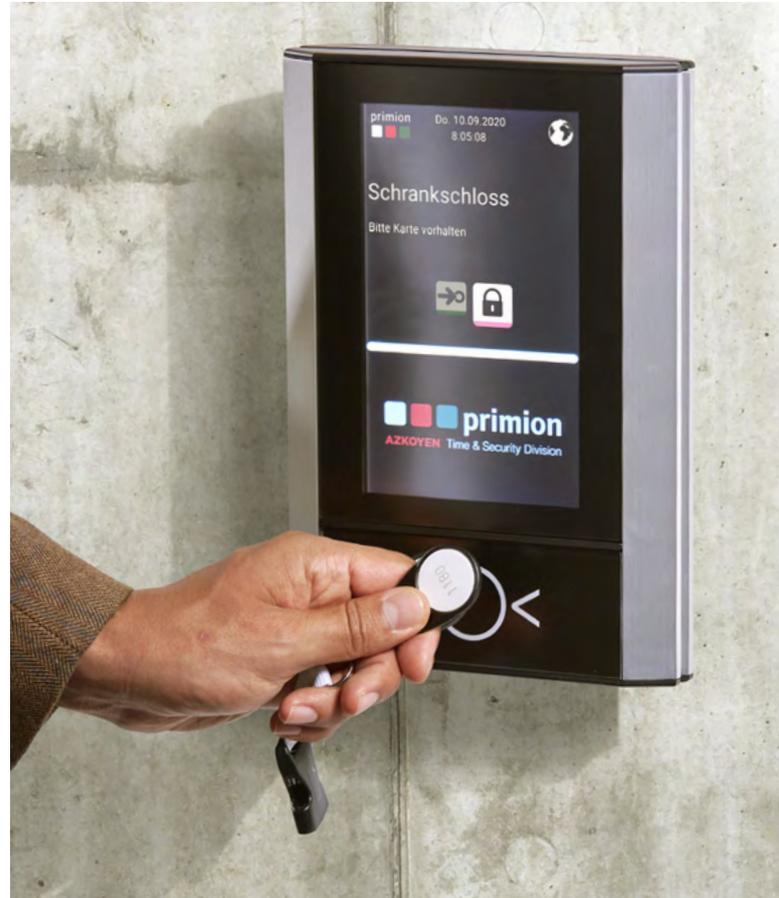
Scenario B Free choice of cabinet / locker

The area(s) is / are stored in the software in which the user can freely select a cabinet. Basically, all cabinets are initially open, the user chooses one, deposits his items and locks it with his chip / ID card. The transponder that was not previously used thus establishes a "connection" with the cabinet lock.

- ▶ The next time it is opened, the cabinet is released for general use again.
- ▶ If, after some time, the user prefers another locker, e.g. because it is closer to the exit, he can open the currently selected locker, thereby releasing it for others and removing his valuables. Now he can choose a new cabinet again.
- ▶ The operator can define different areas for cabinets in the software; e.g. for differentiating the lockers according to individual classrooms.

Select cabinets in different areas:

A person can also freely choose a cabinet from up to two different areas. In clinics, for example, the medical staff on the ward needs different clothing than in the operating theatre area. Which cabinet / locker was selected can be queried on the ADT 1100.



Advantages of the primion cabinet lock solution:

- Easy assembly and handling
- No wiring required
- Toggle mode possible
- Up to 65,000 cycles per battery
- Automatic summer and winter time changeover
- Displaying and deleting the cabinet assignment on the ADT 1100 (picture)
- Flexibility in the allocation of the cabinets
- Independent assignment of up to two cabinets by the user without the intervention of other people
- Multiple modes of operation

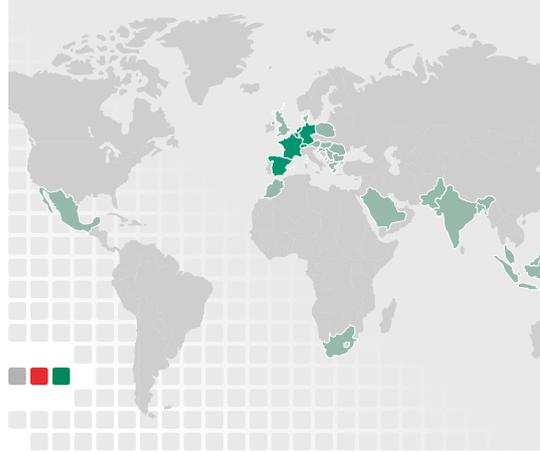
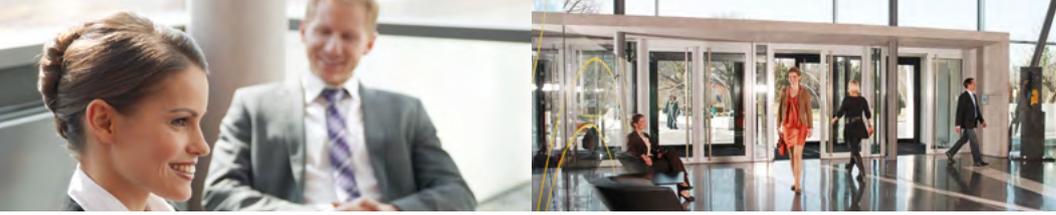


Structure of the lock

The reading unit with the communication electronics as well as the mechanics and the power supply are located in the cabinet lock. A battery provides the power supply for up to 65,000 actuations – depending on the transponder method.

Features

- Up to 1,000 events can be logged in the cabinet lock
- Up to 48 holidays can be set
- Individual and group authorisations possible
- Automatic summer and winter time changeover
- Coupling time programmable
- Suitable for doors up to 20 mm
- Operating modes:
 - Fixed cabinet assignment (standard / mailbox)
 - Free choice of cabinet / locker
- Dimensions when installed (Cabinet lock): 148.5 x 44.7 x 35 mm (H x W x D)
- Power supply: 1x battery ER14505M 3.6V
- Battery life: up to 65,000 actuations (MIFARE® DESFire®)
- Operating temperature: 5 °C to 55 °C
- Storage temperature: -40 °C to 65 °C
- Maximum relative humidity: up to 95%, non-condensing
- Area of application: indoors



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