



## MATRIX Professional: Security, employee and facility organisation rolled into one

Access control,  
and escape route  
protection



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# Professional access, and escape route protection control

What has always been true at a personal level, now also applies to systems: good networking gets faster results. The better data is collected, pooled and evaluated, the more efficient management will be. It is a key advantage as data volumes for security, employee and facility organisation increase steadily. This is true of large companies, airports, stadia and SMEs alike. Access control, escape route protection, elevator control and video surveillance have to be organised and coordinated from the car park to the boardroom. So it's good if you can control these

different areas centrally thanks to MATRIX Professional. This software system is the comprehensive browser-based and multilingual solution for industry, administration, commerce, public authorities, facilities and a lot more.

Companies with global aspirations shouldn't be held back by language or usability barriers: MATRIX Professional is multilingual and browser-based.



**Worldwide implementation**

MATRIX Professional is multilingual: all processing dialogues and data are simultaneously available in several languages – in German, English, French, Dutch, Russian, Italian, Spanish, Portuguese, Turkish, Polish, Norwegian, Swedish and Danish.

**Browser-based and stand-alone**

MATRIX Professional is completely browser-based, thus greatly facilitating installation and maintenance. The system fits into your network and can be accessed by any network PC.

**Adaptable and versatile**

The software platform comes in a modular design. It pools data from various systems in one clearly structured user interface.

**Open interfaces for flexible networking**

Access control, can also be networked with existing systems via open standardised interfaces. Various buildings with different control systems and access rights are thus integrated into a working overall system.

**User-friendly thanks to intuitive operation**

Dialogues are structured logically by frequency of use. Configuration rarely needs to be changed thanks to basic entries, thus reducing operational errors and training.



# Basic functions



**01**

## Hardware for access control

Electrically driven door systems manage effective reliable control of emergency exits and access control systems.

**02**

## Escape route protection

The TMS door management system for escape route protection can be easily integrated into the MATRIX Professional modular system. The system is the perfect team player, with fire or burglar alarm systems, for instance.

# Key applications



**03**

## Visitor management

The visitor management system quickly registers new visitors or retrieves existing system data. So you always know when visitors came, who they visited and how long they stayed.



**04**

## Pedestrian flow control

Pedestrian flow control systems at security-relevant entrances permit access for individuals but not groups.



**05**

## Elevator control

Usage rights for elevators are personally and flexibly activated so that after office hours only specific persons can enter the building, for instance.



**06**

## Car park management

Car park barriers can also be integrated into the system. MATRIX Professional records all relevant door and access components into an easy-to-grasp wiring plan.



HR



Facility  
management  
system



Video



Communication

## Simply versatile

MATRIX Professional offers configurable interfaces (including a certified SAP interface) which forwards data to subsystems. This includes data from access control, escape route protection and alarm system.

# Comprehensive system – many specific benefits

Efficiency is a matter of organisation. As a networking system, MATRIX Professional solves the problem of unmanageable data volumes. The complex organisation in the overall system is facilitated by the user-friendly application in the browser and linking of open interfaces. A click is all it takes. Tasks are eased and enough time is left to focus on more important matters.







### Benefits for HR managers

- Implementation of company rules and wage agreements
- Retrograde calculation option in case of changes in processing regulations
- Thanks to employee workflow more effective work mode for time management personnel; flexible options of data exchange with programs in the HR department



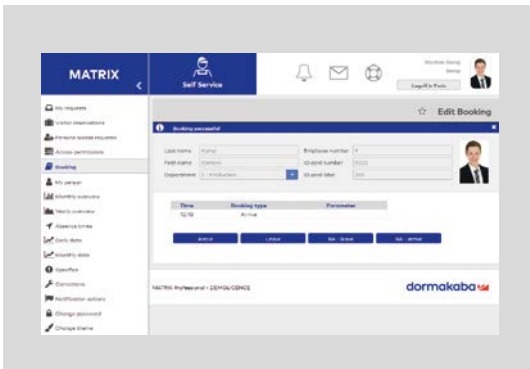
### Benefits for security managers

- Sophisticated role concept defines clear responsibilities between Security and HR
- No double data saving for and access thanks to integrated system
- Revisability covers all definitions of system parameters



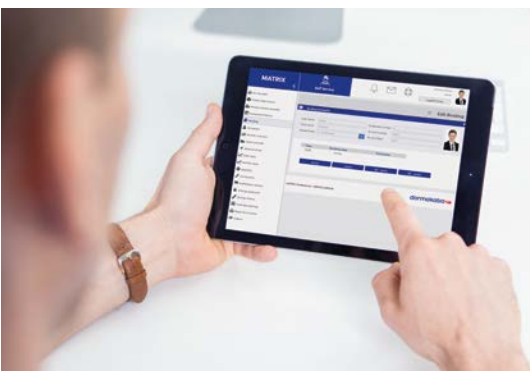
### Benefits for IT managers

- Minimum effort as the system is browser-based
- No installation expense for work terminals
- Can also be used for virtualisation
- Support of all common standards like TCP/IP, SSL, LDAP
- Easy-to-administer interfaces with third-party systems



### Users as system managers

- Quick and easy-to-find dialogues for standard tasks with favourites concept
- Operation via browser in usual concept
- Sound evaluations with customisation option



### User benefits

- Fast reaction time in case of clock-in/out
- Transparency thanks to browser-accessed info portals
- Workflows for requesting corrections and absences

# System overview

## Upgradable

MATRIX Professional can be easily upgraded as required. Wireless components are controlled via wireless links, so there is no need to open up walls, no structural work, no additional effort and costs. If departments have to move or are enlarged, the wirelessly networked components are simply moved too.

## Combinable

MATRIX Professional is ideal for virtually all entrance and exit situations and as a platform for other systems like elevator controlling and video surveillance. Various systems can be easily combined with different online and offline components. All door components and contactless access readers in our program are connected via the configured access control centres. The relevant switching plan can be operated intuitively.

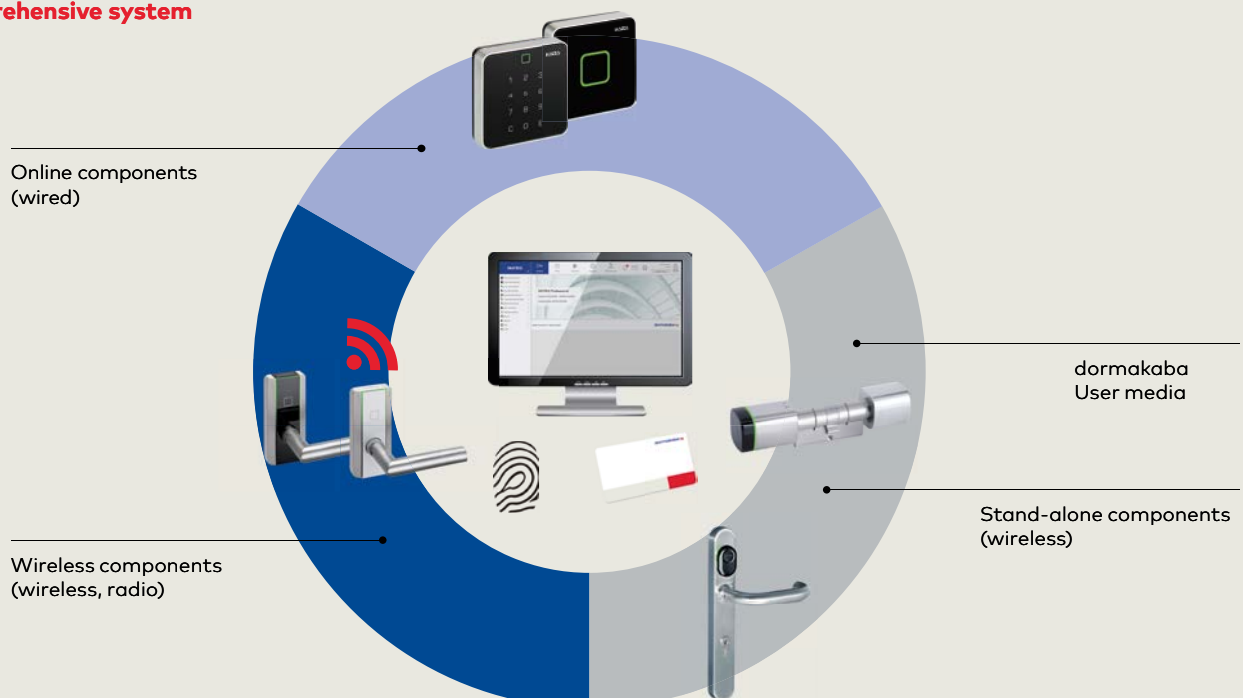
## Intuitive

The system is user-friendly. Training and data maintenance effort is negligible.

## Multilingual

MATRIX Professional is multilingual: all processing dialogues and data are available in several languages.

## Comprehensive system





# The universal software solution: browser-based, modular, adaptable

## Multi database

- H2 (internal data storage)
- Microsoft SQL Server Express 2008 (R2)
- Microsoft SQL Server 2008 (R2)
- Microsoft SQL Server Express 2012
- Microsoft SQL Server 2012
- Microsoft SQL Server Express 2014
- Microsoft SQL Server 2014
- Microsoft SQL Server Express 2016
- Microsoft SQL Server 2016



## Multi platform

- Microsoft Windows 7 Professional (64 bit)
- Microsoft Windows 8, 8.1, 10 Pro (64 bit)
- Microsoft Windows 2008 Server (64 bit (R2)
- Microsoft Windows 2012 Server (R2)
- Microsoft Windows 2016 Server



Internet/  
Intranet



## Multi browser

- Microsoft Internet Explorer (Version 11)
- Microsoft Edge
- Mozilla Firefox (Version 38 und später)
- Google Chrome (Version 44 und später)



## Web server

- Apache Tomcat
- JAVA computer language

# The future is unpredictable, so it's best to be ready for it.

- The browser-based interface permits use and configuration from anywhere in the world
- Thanks to the multi-client capability even several companies can access separate areas, saving procurement and maintenance costs
- Corporate workflows are supported so absences can be assigned in the access rights in the access module, for instance

## The A to Z of MATRIX Professional system software

### I

IDs: unlimited number, depending on licence level.

### U

User groups: as many as you like. The menu adapts right dynamically.

### C

Code: 4- to 6-digit PIN code.

### D

Database: integrated SQL H2 database engine or Microsoft SQL server.

### S

Sole rights can be individually assigned.

### F

Fault clearance: via dormakaba support.

### E

Equipment management: via the dormakaba terminal manager; component set-up and management via netbook.

### L

Lists: predefined or customised dynamic lists for personnel data in PDF format.

### O

Options: Gate control, elevator control, burglary alarm activation/deactivation, presence table to visualise status of persons in a specific environment.

### P

People management: Access right defines where and when a person may pass through an access point. Rights can be assigned for individual doors or room zones (door groups). A person's right of door access is based on access weekly plans in conjunction with an access calendar in the authorisation system.

### R

Ready-to-run function: ID reader, doors, calendar, daily programs and weekly plans are pre-defined.

### S

Security options: Zutrittswiederhol-sperre, Doppelnutzungssperre and room zone change control.

### T

Time intervals: Time intervals can be defined for every door in which only specific actions are possible regardless of the personal profiles.

### R

Rights can be defined as full or read access rights.

# Access control tailored to your needs

MATRIX Professional easily adapts to changing requirements. This safeguards your investment and provides you with a system that you deploy as you like. Thanks to the open interfaces – to implement video verification or elevator controlling for instance – your access control is compatible with other systems. Take advantage of

dormakaba's SAP experience and professional advice during planning and, if required, the assistance of specially trained employees.

## The key attributes of access control

- Modular system for access control, with the option of integrating the TMS system for escape route control
- Licence model with different levels
- Additional modules/assistant for full integration of the requirements of large enterprises
- Manages up to 300,000 IDs/people
- Licence level to suit number of employees
- Offline connection of evolo and XS components
- Connection of 96 00 and 97 00 terminal
- Locking monitoring
- Alarm system activation/deactivation
- Local override of alarm systems
- Pedestrian flow control (turnstile, gate control)
- Ergonomic browser-based interface
- Maximum user friendliness thanks to standard operation concept
- Configurable interfaces to higher level systems
- Supports all processes including online access
- Planning with professional advice and if necessary, on-site support by our specially trained employees

## Additional options

- Access on Card (XS), USB reader authorisation
- TMS linking (door management/escape route)
- DIM (dormakaba Integration Manager) pre-configured
- Door manager (alarm management, site plan)
- Visitor management
- Room management
- Connection of Kaba evolo wireless components
- Multi-client capability

## Licence options for full integration of additional applications

- Integration of TMS door management system for escape route protection at database level
- Integration manager – for linking to external systems with a permanent data structure
- Door management module for alarm management including visualisation
- Visitor management with pre-registration
- Room management with room reservation
- XS online wireless control: online operation with XS Traffic Point
- XS Access on Card: daily authorisation on authorisation ID with update option via the TP4 terminal or AoC station
- Full multi-client capability with separate or shared terminals
- Activation/deactivation of alarm systems against unauthorised entry



# Our components for your diverse applications





# Every entrance is different. MATRIX Professional is the solution to all.

As a part or all-in-one solution, in one building or all over the world, at rarely or frequently used entrances: MATRIX Professional is the flexible solution for practically every door and access.

**Part or all-in-one solutions for large enterprises**

You decide which data you want to collect. Other modules like escape route protection, for instance are integrated via open interfaces. A part of a building or several sites can be controlled.

**Online system for comprehensive solutions and several sites**

The online system networks individual doors and components. Access rights can be changed during operation and activated directly on the respective doors. An option is available for live scanning of events.

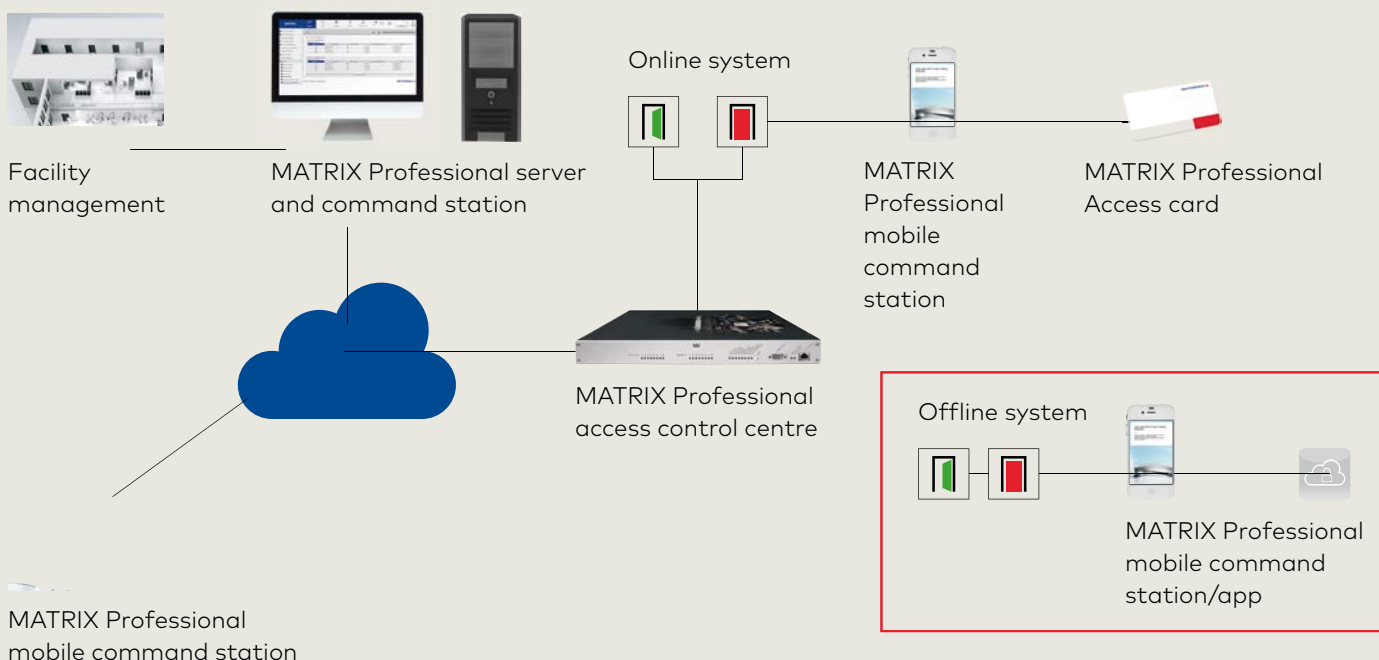
**The offline system is recommended for smaller scale solutions**

In this case, access rights are saved directly on the fitting component. Programming is performed directly on components, no wiring is needed.

**Access on Card for very busy doors**

Access rights are saved directly on the ID card. Changes are thus easier to transmit with no need for manually reprogramming.

**Faster data access online and offline**



# MATRIX Professional components

Thanks to a modular concept and perfectly dovetailed components, your access control and time and attendance data collection system is ready to go.

## Access



### MATRIX AIR fitting

The new electronic fitting is the first of its kind with the flatness of a normal fitting. The technology inside is not in the fitting, but in the handle.



### MATRIX AIR reader

The MATRIX AIR readers are contactless access readers, that are installed next to the door. The MATRIX AIR reader characterizes itself through the dormakaba XEA design.



### Kaba registrations units 90 01 and 90 02

The registration unit 90 01 has an innovative design with an elegant, high-gloss finish and an eye-catching compact form. The Kaba registration unit 90 02 with wear-resistant PIN keypad for access points can be used indoors and in protected outdoor areas.



## System components

- 01**  
MATRIX AIR fitting
- 02**  
Digital cylinder lock
- 03**  
OGRO door handle
- 04**  
Wireless gateway
- 05**  
Terminal



#### **Kaba c-lever**

Proven and well established, the c-lever is timeless in its classical design and user-friendliness. It is compatible with practically all standardised mortice door locks. In most cases, there is no need for a door lock change.



#### **dormakaba c-lever compact**

This flexible electronic solution replaces mechanical handles and is completely independent of the cylinder, so in most cases there is no need to change the lock.



#### **Kaba digital cylinder**

Its energy-efficient electronics detects RFID access media, checks their authorisation and releases doors for entry. Various versions ensure the optimum solution for every door situation.



#### **Kaba wireless gateway**

Individual components are easily integrated by smart wireless routers called gateways.



#### **Kaba access manager 92 00\***

The Kaba access manager 92 00 is an efficient control which manages and controls up to 12 doors depending on the system solution. The desired control function or alarm management is implemented via digital inputs and outputs.



#### **Kaba access manager 92 30\***

The Kaba access manager 92 30 has been optimised for individual access points. 2 compact readers or registration units can be directly connected. It is powered via the network cable. Its discreet design blends in well with every building structure.



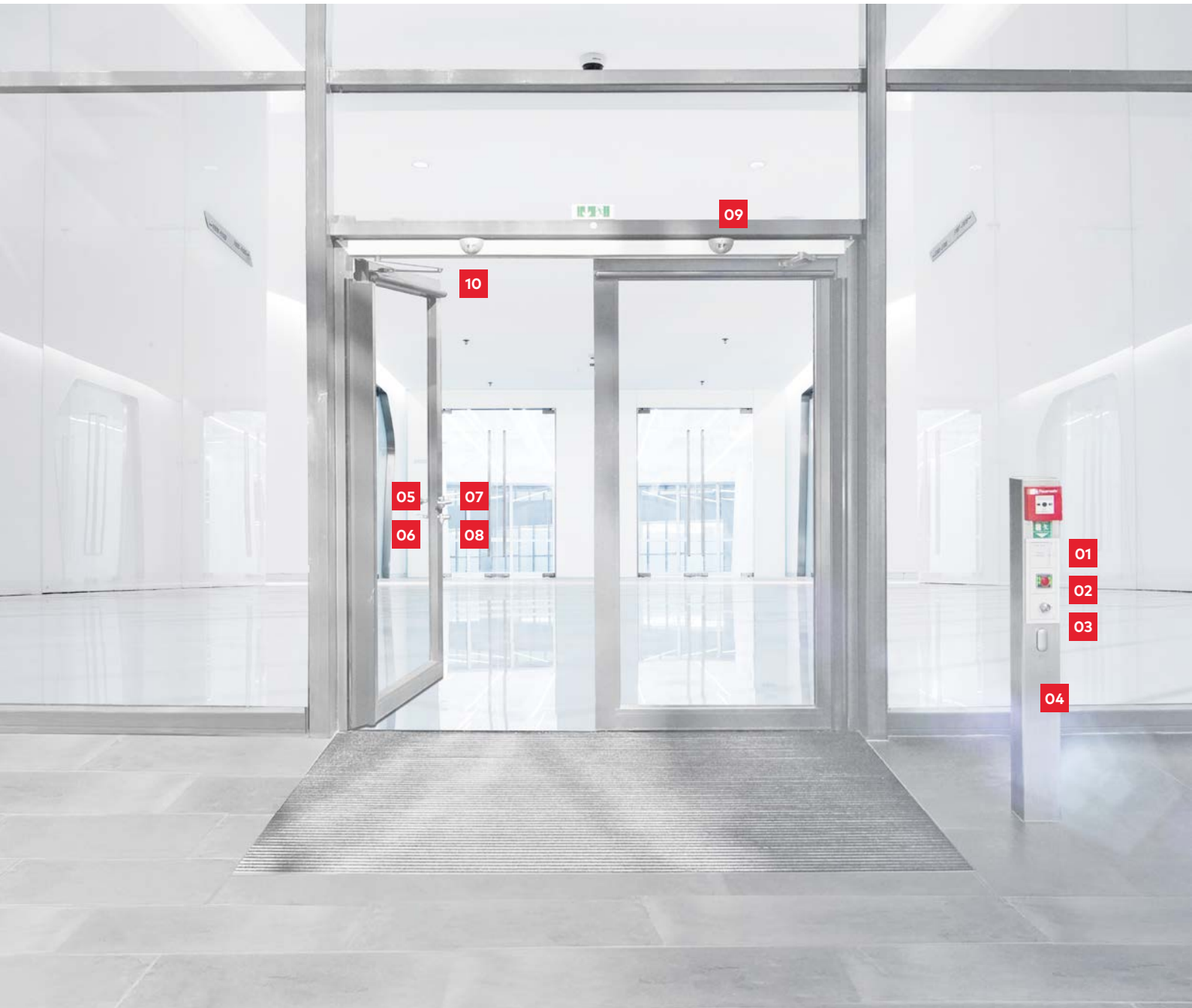
#### **Kaba access manager 92 90\***

The Kaba access manager 92 90 is equipped with a high level of autonomy so it can be flexibly integrated into any existing system and security concept.

\* In progress

# Customised add-ons: everything you need for escape routes, security systems, automated operation

Escape route protection is intended to ensure rescue escape from indoors to outdoors in the emergencies. At the same time it is intended to prevent unauthorised use on both sides of the door. These conflicting requirements can be simultaneously satisfied by dormakaba. In combination with automatic drives the system also ensures accessibility.



### System components

<b>01</b> Touch screen display	<b>04</b> Designer column	<b>07</b> Lock	<b>09</b> Sensor
<b>02</b> Emergency push button	<b>05</b> OGRO door handle	<b>08</b> Door locking	<b>10</b> Automatic swing-door drive ED 250
<b>03</b> Key-operated push button	<b>06</b> Digital cylinder		

# Escape route protection components

Safety for people in danger and maximum protection for your property: all components in our escape route protection systems professionally combine these two requirements. No matter whether you wish to secure individual access points or need access control for extensive net-

worked systems – virtually all requirements can be easily and practically implemented. All systems have one thing in common: uncompromising reliability in the operation of emergency doors.

## Escape route protection and door management



### Surface-mounted door terminal TL-G AP

Rugged escape door terminal housing for adapter boards (TL-S). Door terminals (TL-G) combine reliable function with maximum ease of use.



### TMS tableau system

Tableau systems for controlling and monitoring escape routes and door in security-relevant areas.



### Flush-mounted door terminal TL-UP

Door terminal sets for flush mounting with DCW bus technology for connection to dormakaba emergency centres. The technology ensures fast connection and automatic addressing of individual components for swift straightforward installation and configuration.



### Set components

As for access control System 55 also includes components for escape route protection and door management.

### Emergency exit control unit RZ TMS 2

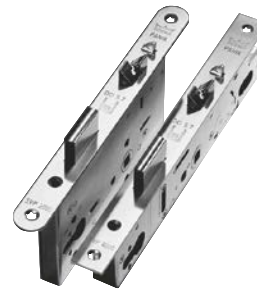
Distributed control for networked and stand-alone TMS escape route doors.

# Escape route protection and door management



## Electromechanical locking device TV 100/TV 100 DCW®

Electromechanical locking device for doors in escape route systems.



## Self-locking anti-panic motor lock SVP 2000/SVP 4000

Self-locking anti-panic motor lock. SVP locks automatically lock every door after every closure – conveniently and securely.



## Electromechanical locking device TV 200/TV 200 DCW®

Electromechanical locking device for doors in escape route systems.



## Alarm components – signallers

dormakaba signallers provide clear and effective warning in danger situations by emitting optical or acoustic signals.



## Electromechanical locking device TV 500/TV 500 DCW®

Electromechanical locking device for concealed frame integration in doors for escape routes.

# Holistic solutions for comprehensive security

Aside from MATRIX Professional we offer many other access solutions and system for enhanced security, more efficient organisation and transparent processes.

Not to mention access systems like carousel and circular sliding doors and pedestrian flow control system for enhanced security in your company.

Further  
solutions from  
dormakaba



**Carousel and circular sliding doors**



**Pedestrian flow control systems**



**YOUR REQUIREMENTS**

- INDUSTRY & MANUFACTURING
- FRANCE
- AIRPORT & PUBLIC TRANSPORTATION
- EDUCATION
- HEALTHCARE
- AND MANY OTHER SECTORS
- GOVERNMENT & PUBLIC SECTOR

**OUR SOLUTIONS**

- SECURING COMPANY PREMISES AND PARKING MANAGEMENT
- DOOR SECURITY WITH MECHANICAL KEY SYSTEMS
- DOOR SECURITY WITH ELECTRONIC LOCKING SYSTEMS
- ACCESS, MEDIA AND KEY MANAGEMENT
- SINGULARISATION AND RFID ACCESS SYSTEMS
- ACCESS CONTROL FOR HIGH-SECURITY AREAS
- EMPLOYEE, VISITOR AND CONTRACTOR MANAGEMENT
- THEir AND ATTENDANCE & SHOP FLOOR DATA COLLECTION

**YOUR BENEFITS**

- EVERYTHING FROM ONE SINGLE SOURCE
- HOLISTIC CONSULTING
- SUSTAINABLE ECONOMIC EFFICIENCY
- COMMITTED PARTNERSHIP
- EFFICIENT ORGANISATION
- EASE OF USE
- OUTSTANDING DESIGN
- COMPREHENSIVE SECURITY
- IMPRESSIVE TECHNOLOGY

**OUR COMPANY**

- 16.000
- 2.200
- 130
- 150 YEARS OF EXPERIENCE
- PATENT
- CRI REPORT CRI CHECKED
- ISO 9001 CERTIFIED

**Holistic access solution from one single source**

THINK | 360° describes our philosophy of offering you more than 'just' products for all requirements. We promise holistic solutions based on a product portfolio in which all system products are developed and manufactured in-house – thus from a single source.

However THINK | 360° also stands for benefits that go far beyond individual products. We are the partner on whom you can rely for comprehensive know-how, long-standing experience and an international organisation. More details at: [www.dormakaba.com/think360](http://www.dormakaba.com/think360).

**Committed partnership**

**Sustainable economic efficiency**

**Everything from one single source**

**Comprehensive security**

**Outstanding design**

**Ease of use**

**Efficient organisation**

**Holistic consulting**

**Impressive technology**





