

# Security management, personnel management and access management in one

**MATRIX Professional** by dormakaba



# Access control, time management and escape route control professionally managed

The amount of data involved in managing security, personnel and access is continuously rising. Access control, time recording, time management, escape route control and factors such as elevator control or video surveillance have to be organized and coordinated. MATRIX Professional is a central control system for all of these different areas.

The browser-based software system is a comprehensive solution for large companies and organizations. Thanks to its modular structure, MATRIX Professional is capable of adapting perfectly to your current and future requirements.

## One system, three modules

### MATRIX Professional Access

The universal solution for access and escape route control

### MATRIX Professional Time

The versatile solution for time management

### MATRIX Professional Connect

The coordinated solution for SAP and other HR host systems

"If a company wishes to operate internationally, it must not be held back by a language or usability barrier: MATRIX Professional is multilingual and web-based."



#### **User-friendly due to intuitive operation**

The dialogues are logically structured according to frequency of use. Thanks to the basic input schemes, the configuration rarely needs to be changed. This reduces operating errors and speeds up training.



#### **Web-based and secure**

MATRIX Professional is completely web-based, which greatly simplifies both installation and maintenance. The system can be accessed in your home network and from any device—PC, tablet or smartphone. High levels of safety guarantee reliable and protected operation. Regular penetration tests ensure excellent protection against failure.



#### **Adaptable and versatile**

The modular software platform bundles data from various systems in a single clear user interface. In addition, individual dialogues can be shown or hidden depending on the user.



#### **Ready to use internationally**

MATRIX Professional is multilingual: all editing dialogues and data are available in multiple languages—Chinese (simplified and traditional), Czech, Danish, Dutch, English, Finnish, French, German, Hungarian, Italian, Norwegian, Polish, Portuguese, Russian, Serbian, Spanish, Swedish and Turkish.



#### **Open interfaces for flexible networking**

Access control and time recording can be networked through open, standardized interfaces and linked to existing systems. In this way, multiple buildings with different control systems and access authorization structures can be connected to form one combined overall system.



# Comprehensive system with many specific benefits

Efficiency is a matter of organization. As a networking system, MATRIX Professional solves the problem of managing large and complex amounts of data. User-friendly in-browser application and the ability to connect to open interfaces simplify complex organization tasks in the overall system. And all this can be done with just a few clicks. This reduces the workload and leaves more time for important matters.





#### Benefits for safety officers

- Well-thought-out role concept defines clear responsibilities for Security and HR
- All system configuration definitions can be revised
- Every version is penetration-tested in independent audits for maximum security
- Direct connection to dormakaba Security and Health Check to speed up audits
- Complies with the General Data Protection Regulation (GDPR)



#### Benefits for IT staff

- Web-based system minimizes the workload
- No installation costs for operating stations
- Can also be used in virtualized systems
- Modern three-tier architecture separates data storage, data processing and data presentation
- Supports all common standards, such as TCP/IP, SSL, LDAP
- Easy-to-manage interfaces to external systems



#### Benefits for HR staff

- Implementation of company guidelines and collective agreements
- Recalculation capability if changes are made to processing instructions
- More effective working methods for time administrators thanks to the employee workflow; flexible options for exchanging data with HR programs
- Integrated system eliminates double data management for time and access administration



#### Benefits for system administrators

- Quick and easy-to-find dialogs for standard tasks thanks to the concept of "favorites"
- Operation in familiar browser environment
- Useful and customizable evaluations
- Assign data groups to objects with an unlimited number of hierarchical data groups



#### Benefits for users

- Fast booking response times
- Browser information portal improves transparency
- Standard workflows for requesting corrections and absences

# The most important functions of MATRIX Professional

MATRIX Professional is a versatile system that is easy to operate and manage. It is a custom solution for integrated organization of your access control, time recording, time management and escape route control functions. Furthermore, applications such as elevator control or parking space management can be integrated whenever required. MATRIX Professional options let you cover even more functions.

## Basic functions

### Access control

Electrically operated door systems efficiently and reliably control emergency exits and access control systems.

### Time recording and time management

MATRIX Professional records time bookings and access rights in one seamless workflow. The system lets you evaluate time bookings according to your individual preferences.

### Escape route control

The escape route control and door management system (TMS) can be easily integrated into the modular MATRIX Professional system. It is also straightforward to incorporate fire alarm or burglar alarm systems.

## Applications

### Visitor management

Visitor management quickly records new visitors or retrieves data from the system. This makes it possible to track who visited whom, when they visited and for how long.

### Isolating persons

Barrier systems for isolating persons can be used to grant access to individual persons or deny access for groups at security-relevant entrances.

### Elevator control

Usage authorizations for elevator systems are activated individually and flexibly to ensure, for example, that only certain people can access them after office hours.

### Parking lot management

Parking barriers can be integrated into the system. MATRIX Professional presents all relevant door and access components in an easy-to-understand connection diagram.



### Selected options

#### General interface

The MATRIX web interface can be used to set up configurable interfaces for integrating and transferring data from parent systems and other external systems. A one-time data transfer is required to commission the system.

Subsequently, data can be synchronized daily or manually. The MATRIX web interface also has standard interfaces for importing and exporting staff records from csv files.

#### Client management

This option lets individual locations, floors or office groups be separately organized. The separate groups can use MATRIX Professional access control collectively but cannot access each other's data.

#### Room management

The room management option is an efficient tool for managing rooms that are used by a variety of employees within a company, such as meeting rooms or training rooms. Access rights can be assigned and automatically allocated to persons.

#### Workplace management

Workplace management is employed to manage shared office spaces easily and reliably. Only authorized persons are granted access and then only to the respectively booked areas.

#### Alarm monitor

This option uses a site plan and cameras to respond to various incidents quickly and precisely. The alarm monitor sends a visual alert to the responsible staff and can provide predefined instructions for action.

#### Further access control options

- Visitor and external company management
- Interface to burglar alarm systems
- Integration manager
- Report configurator
- Workflow
- Link to door management system
- Interface to Ambiance lodging solution
- RFID card creation system

#### Further time options

- Shift management
- Attendance display
- Cost center recording
- Wage and salary interfaces
- Document import (electronic certificate of incapacity for work [eAU])



# Access control that adapts to your requirements

The MATRIX Professional access control system can be scaled to suit almost any security demands and any size of application. It can be used for simple door control using a locking plan or to map complex security situations, e.g. incorporating elevator control units and

airlock management systems or dealing with high-security conditions. MATRIX Professional manages and controls both unwired access components and networked access readers in a clearly structured overall system.





# The most important access control features

- Tiered licensing structure
- Manage up to 4,000,001 persons
- Monitor locking systems
- Activate/deactivate alarm systems
- Override alarm systems locally
- Isolate persons (turnstiles, airlock control)
- Supported connection types: online, wireless, Access on Card (AoC), OSS and Mobile Access
- Flexible interfaces: LDAP, REST API, Database, Card Management, SAP, Wingard, Bosch Intrusion Detection System, File, Active Directory
- Integrate hardware from third-party providers: OSS, PHG (PHG Crypt), Wiegand, Nedap license plate camera, Deister long-range reader, etc.
- Integrate EntriWorX

#### **MATRIX Professional interfaces:**

- DIM (dormakaba Integration Manager) links to external systems with fixed data structures
- General interface for importing/exporting data (database/LDAP/file/socket)
- REST web service API interface
- Door management system link (door management/escape route)
- RFID card creation system interface
- Wage and salary interfaces



# Open to many possibilities with Mobile Access

Mobile Access makes many things easier. You can send digital keys to users with a simple click. Electronic door components can be opened conveniently using a smartphone and the dormakaba Mobile Access app.

#### **Access for your employees**

Mobile Access gives your employees easy access to their workplace via smartphone. Mobile Access also lets you easily transfer access rights across different locations.

#### **Transmit access rights in advance**

Are you expecting visitors outside your opening hours? Or is an external company working on site during the night? Transfer the necessary access rights in advance—for a limited period, with customizable options and across multiple locations.

#### **React quickly and flexibly**

React flexibly by using Mobile Access to send digital keys directly to a person's smartphone if unexpected absences occur due to illness, if a substitution is required or if you need to reschedule. Your mobile access can also be linked to time recording.

#### **TapGo for large companies**

When using TapGo technology, it is enough to start the Mobile Access app just once from inside a building. The application then runs in the background and lets you open all doors, gates and barriers very conveniently.

# Solutions for any entrance

Partial or complete solutions, for single buildings or around the world, for little-used or heavily frequented entrances: MATRIX Professional is the flexible solution for almost any door or access point.



## **Partial or complete solutions for large companies**

You decide which data you want to collect. Open interfaces are used to integrate further modules, e.g. for escape route control. You can control just one section of a building or multiple locations at once.



## **Online system for comprehensive solutions and multiple locations**

The online system links the individual doors and components in a network. Access rights can be changed during ongoing operation and activated directly at the relevant doors. It is also possible to query events live.



## **The standalone system: perfect for smaller solutions**

Access rights are saved directly in the access component. Programming is carried out directly on the component, without any wiring.



## **Access on Card (AoC) for heavily frequented doors**

Access rights are saved directly to the RFID medium. This makes it easier to transfer any changes without having to reprogram every component manually.

# Time management just how you want it

Whether used to manage flexible hours, part-time or job sharing schedules, modern time recording and time management technology makes processes fast and smooth and paves the way for efficient and successful completion of human resources tasks. MATRIX Professional covers all these aspects for any size of company.

## **Seamless integration**

The modular solution uses standardized and certified interfaces to seamlessly link central time management modules with further modules and existing systems. In this way, it can combine different buildings, often with different control requirements and time management demands, into an overall system that works smoothly.

## **Variety of functions**

MATRIX Professional's wide range of functions covers all important areas of personnel management. The application is modular, meaning it can be expanded by adding supplementary functional modules as and when needed. MATRIX Professional is also in continuous development, so the system is always kept up to date and is future-proof.

## **Administration functions**

- RFID card management
- Client management
- Detailed role concept
- Data groups
- Revisions

## **IT functions**

- Import staff master records
- Integrate external systems (including data sharing)
- Certified SAP interface
- Integrated backups and recovery

## **HR functions**

- Freely definable nodes
- Overtime management
- Implement company-specific rules
- Recalculation capability for corrections
- Bonus management
- Interface for importing absences from L/G program (eAU)

## **Supervisor functions**

- Shift management
- Attendance display
- Substitution regulations
- Separate approval workflows including vacation requests
- Individual dynamic reports

## **Staff functions**

- Self-service functions with standard request workflows
- Web-based information and booking portal
- Bookings made using dormakaba time recording terminals

## **Reliable time recording**

MATRIX Professional provides convenient solutions for recording your employees' bookings for coming, leaving, breaks or business trips using dormakaba time recording terminals 96 00 / 97 00, workplace PCs or smartphones. The system is highly resistant to failure as the time recording terminals record the time bookings autonomously. If the MATRIX server is not available, the time bookings are automatically stored temporarily in the terminal and transferred later on.







# All about escape routes, security technology and automatic operation

**In an emergency, an escape route control system should allow people to escape from inside the building to a place of safety. It should also effectively prevent the door from being used from both sides day in and day out. These conflicting requirements can be met by customizing MATRIX Professional with supplementary functions. The access system is also barrier-free when combined with automatic drives.**

## **Escape route control that suits your needs**

In the event of danger, escape route control gives both people and your property the best possible level of protection. All components of our escape route control systems skillfully unite these two requirements. We can meet almost any requirements simply and effectively, whether you want to secure individual doors or extensive networked systems using an access control

system. All systems have one thing in common: safe operation of the escape route door without compromises.

## **All functions in an overall system**

The option for linking to a MATRIX door management system lets you configure access authorizations for escape route control and door management systems in a standardized way. All access-relevant data, such as staff master data, access rights and the calendar are maintained in MATRIX Professional. The door management settings are configured in TMS Soft door management software. As data is exchanged via the TMS Soft database, the data is only entered once and is then available from both systems. The result: greater safety with less effort.

# Access control and time recording hardware

Nothing will hamper your access control and time recording system thanks to the modular design and perfectly coordinated components.



## Access manager 92 00

Access manager 92 00 is a powerful controller that manages and controls multiple doors at the same time depending on the system solution. The desired control functions or alarm management functions are implemented using digital inputs and outputs. Its compact dimensions make it suitable for mounting on DIN rails.



## Compact readers 91 04, 91 10 and 91 12

These compact readers are universal and can be used in combination with any access solution. Always online, they greatly improve security in conjunction with a control unit. They are ideal for controlling access within organizations. The compact reader uses contact-free technology to identify users from their RFID medium or smartphone. It then checks and interprets the recorded data and grants or denies the user access.



## Registration unit 90 02

Registration unit 90 02 has an innovative, compact design. It features a wear-free PIN keypad and can be used indoors or in protected outdoor areas.



## Access manager 92 30

Access manager 92 30 is optimized for single access points. Two access readers can be directly connected. It is powered via the network cable and PoE or PoE+ and its discreet design blends harmoniously into any building structure.



## Remote readers 91 15, 91 25

Remote readers are designed both for simple and demanding access points and have the benefit of using a registration unit that is separate from the door control unit. This makes them suitable for installation in protected indoor areas to control access points located in unprotected outdoor areas.



## Registration units 90 00, 90 01, 90 03 and 90 04

These registration units are generally installed at a distance from the control unit (remote reader or access manager). The control unit can be installed in a tamper-proof location while the registration unit is located directly by the door. Different designs are available to suit any installation site. Communication between the registration units and control unit is encrypted and extremely secure.



## Access manager 92 90

Access manager 92 90 is a highly autonomous system. It can be flexibly integrated into any existing system or security network as a rack-mounted or wall-mounted version.





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

This fitting is a flexible electronic solution that replaces the mechanical handle and is completely independent of the cylinder. This means that there is no need to change the lock in most cases.



#### **c-lever pro**

The high-quality materials meet the most stringent requirements for robustness, weather resistance and safety. c-lever pro offers solutions for burglary and fire protection as well as escape and rescue routes.



#### **Digital cylinders**

Energy-efficient electronics detect RFID access media, check their authorization and release doors for opening. A range of versions means you are sure to find the perfect solution for any door situation.



#### **Cabinet lock 21 20 and 21 20**

The electronic cabinet lock conveniently protects your personal documents and materials held in wardrobes, lockers and other furniture against unauthorized access without ever having to turn a key.



#### **Mechatronic cylinders**

Mechatronic cylinders bridge the gap between electronic access control and the world of mechanics. As part of the proven dormakaba evolo product range, they can be seamlessly integrated into existing mechanical locking systems. Combining a mechanical cylinder with electronic access control opens up completely new possibilities.



#### **Wireless Gateway 90 40**

Access authorizations can be granted or revoked in seconds and are immediately effective.



#### **dormakaba terminal 96 00**

Terminal 96 00 is easy to operate, compact, attractive and features a touchscreen. It is the perfect entry-level solution for anyone looking for a simple time recording application.



#### **dormakaba terminal 97 00**

Terminal 97 00 performs a variety of professional time recording and access control tasks and also provides customer-specific information and applications.

# Escape route control hardware

In the event of danger, escape route control gives both people and your property the best possible level of protection. All components of our escape route control systems skillfully unite these two requirements. We can meet almost any requirements simply and effectively, whether you want to secure individual doors or extensive networked systems using an access control system.

## Basic components

### STV 1xx

Electromechanical door lock



### STV 2xx

Electromagnetic door lock



### STV 5xx

Electromechanical door lock for concealed installation in frame



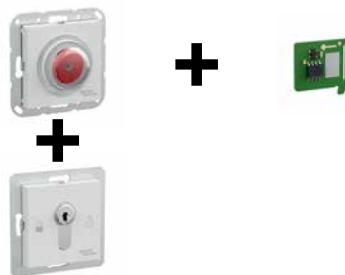
### STL-G with SCU-TL as master

All-in-one terminal (with or without NT power supply unit)



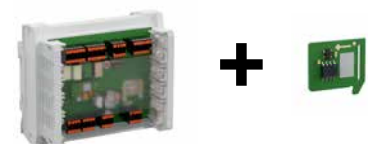
### SCU-UP as master

Individual components



### SCU-DR as master

DIN rail mounting and individual components



## SafeRoute Control Unit SCU as master

Inserting the license card turns an SCU into a control and monitoring center (master). Depending on the license tier, one master can monitor and control up to 4 escape route doors. Every connected escape route door requires at least one emergency button with a connected key switch and an electric door lock.

The individual components are supplied with power from any point in the DCW® bus, e.g. by an STL-G with an integrated or external power supply unit.

## Sample selection of optional components

### STL-G (slave)

Additional emergency button and key switch



### SCU-UP (slave)

Additional emergency button and ST key switch



### SVP 2xxx DCW®

M-SVP 22xx DCW®  
Self-locking motorized panic lock



### STV-A adapter

For door locks without a DCW® bus (certifications in line with EtVTR [German standard for electrical locking systems on emergency exits] or EN 13637 must be observed)



### STD-UP touchscreen display

For use as a supplement to the key switch, simple access control or for use as a down counter display for emergency release delay





Why regular maintenance of your access control and time recording systems is so important:

- Cybersecurity & compliance
- Operational safety
- Security of investment



The field of IT systems is changing at a faster and faster pace. At the same time, threats from external attacks are increasing and strict data protection regulations require system components and security features to be kept constantly up to date. We want to help you ensure that your dormakaba system is as well-protected as possible, complies with all data protection requirements and that any discrepancies are detected right away.

- In full compliance with the General Data Protection Regulation (GDPR), the handled data does not contain any personal information but rather only device and system data.
- MATRIX transmits system data cyclically, subject to prior approval by the administrator. We are happy to inform you about this data to ensure maximum transparency.

## Our dedication to sustainability

We are committed to sustainable development throughout our entire value chain and keep a close watch on our economic, ecological and social responsibility towards future generations. Sustainability at product level is a vital and forward-looking approach that must be embraced by the construction industry. dormakaba provides Environmental Product Declarations (EPDs) based on comprehensive ecological life cycle assessments. These contain quantified data on the environmental impact of products over their entire life cycles.

[www.dormakaba.com/sustainability](http://www.dormakaba.com/sustainability)



## What we offer

### Access automation solutions

Entrance automation  
Entrance security



### Access control solutions

Electronic access & data  
Escape and rescue  
Lodging systems



### Access hardware solutions

Closing mechanisms  
Door hardware  
Mechanical key systems



### Services

Consulting and planning  
Installation and commissioning  
Maintenance and repair



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[dormakaba.com](http://dormakaba.com)

**dormakaba**  
**International Holding AG**  
Hofwissenstrasse 24  
CH-8153 Rümlang  
T +41 44 818 90 11  
[info@dormakaba.com](mailto:info@dormakaba.com)  
**dormakaba.com**