

MIDITEC
SECURITY SYSTEMS

Integrated solutions for space and time.
Technology meets design.



Product Catalogue **Business Solution**

Time Management | Access Management | Security
valid from 01/2017

Table of contents

MIDITEC	4
MTZ® BUSINESS SOLUTION	
MTZ® Business Solution	6
MTZ® Business Solution System Requirements	8
MTZ® TIME	
MTZ® Time	10
MTZ® Time Extensions and Interfaces	13
MTZ® PDA	14
MTZ® Smart Time	15
MTZ® PDA Smart Time	19
MTZ® ACCESS	
MTZ® Access	21
MTZ® Access Extensions	24
MTZ® Visitor	25
MTZ® Visitor Digital Signature	
MTZ® Visitor Project Management	26
MTZ® milock Locking System	27
MTZ® PegaSys Locking System	28
MTZ® Hazard Detection	29
MTZ® Car Park	30
Extensions	
Extensions for MTZ® Time	
MTZ® On-Call Duty Light	
MTZ® Personnel Panel	31
Extensions for MTZ® Access	
MTZ® Area Changeover Control	
MTZ® Reader Panel	32
MTZ® Door Panel	33
MTZ® Report Generator	34
MTZ® ID Card Creation	35
MTZ® Unique ID Numbers	36
Interfaces	
Payroll Interfaces	37
Import Interface Pro	
LDAP Import Interface	
OPC UA Interfaces	38
SAP-HR-PDC Interfaces	39
Elevator Interface Kone	40

HARDWARE ONLINE

TERMINALS	
Terminals: The Next Generation	43

STAR-TYPE TOPOLOGY

Configuration Example	
Time Management / Access Management	47
Configuration Example Access Management / Security	48
Universal Control Units	49
Universal Control Units HDS	52
Elevator Universal Control Unit	53
Control Units: Options	54
Readers for Universal Control Units	56
Readers for Elevator Universal Control Units	67
Slave Terminals for Universal Control Units	68
Special Readers for Universal Control Units	69
Stand-Alone Reader	71
PIN Code Entry	73

VdS DEVICES

Configuration Example: Burglary Detection System (VdS) ..	75
Universal Control Units HDS VdS Certified	76
Readers for Universal Control Units HDS VdS Certified	77
Slave Terminals for Universal Control Units VdS Certified ..	78

BUS-TYPE TOPOLOGY

Configuration Example: Access Management	80
Serial Control Units ACS5000/16	81
Readers for Serial Control Unit	83
Door Controller for Serial Control Unit	96

HARDWARE OFFLINE

Configuration Example: Offline	98
Reader Offline	99
Door Controller for Reader Offline	107

Door Terminals

milock Focus	108
milock Wireless Lock	110
PegaSys	115

Table of contents

LOCKER LOCKING SYSTEM.....

Locker Locking System.....	121
Serial Control Unit for Locker Locking System	122
Controller for Locker Locking System	123

ACCESSORIES.....

IDs	124
Power Supply Units	127
Key Coder.....	128
Weather Protection Covers	129
Door Terminals I PegaSys	130
Profile Half Cylinder Body.....	131
Design Examples for Switch Programmes.....	132
Interface Card for Universal Control Unit.....	134

SERVICE.....

Training	136
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Company

MIDITEC Datensysteme GmbH

MIDITEC

The name MIDITEC has stood for innovative products in the fields of access management, building security and time management for more than 30 years. As one of the leading suppliers in this industry, we develop and produce our components exclusively in Germany, but also deliver them far beyond the German borders. We have prestigious reference buildings in many European countries and the Arab world. Since 2003, MIDITEC has been represented by its own sales offices in the United Arab Emirates.

HARDWARE AND SOFTWARE FROM ONE SOURCE

The most important success factors of our products are quality and modularity. All hardware and software components are optimally compatible and can be combined with practically any configuration. This results in highly integrated solutions tailored ideally to the individual needs and wishes of each customer.

DESIGN AS A HOLISTIC PROCESS

Product development is about more than the technology. Economic aspects and aesthetics must be given just as much attention. What we mean is: security installations that are going to be seen must never be perceived as disturbing. They should blend harmoniously into their respective environment. Design is therefore a holistic process at MIDITEC, which allows for individual designs to suit personal needs and wishes, from industrial functionality to tasteful exclusivity.

Whether access, security or time management, whether on-line or offline: MIDITEC offers precise fitting solutions from one source – competitively, efficiently and dependably.



You can find the General Terms and Conditions here:
www.miditec.de/agb



MTZ[®] Business Solution

Time Management | Access Management | Security

Software

MTZ® Business Solution

MTZ® Business Solution is an innovative software kit for access management, time management and building security. Individual modules can be flexibly combined, individually adapted and expanded with additional applications at any time.

The software is web-based, virtually infinitely scalable and therefore suitable for organisations of all sizes. It is perfectly harmonised with the MIDITEC hardware, but not exclusively limited to it.

APPLICATION SERVICE PROVIDING

As a web application, MTZ® Business Solution runs on all current operating systems (refer to the "MTZ® Business Solution System Requirements" chapter). It is easily called up in a web browser. All the application software and databases are located on a central server. This guarantees fast installation and reduces the amount of maintenance required. Users access the program either via the company Intranet or, from certain locations, via the Internet. To get started, all users need to do is launch the browser, select a module and log on using their user name and password. Using ASP technology, companies have the option of implementing provider-based solutions, single-user solutions or multi-location systems. Employees, business units or new locations can be added to MTZ® Business Solution at any time. Cost and maintenance are reduced to a minimum and synergy effects are optimised.

INTEGRATED MODULE SYSTEM

The integrated MTZ® Business Solution modular system guarantees the vertical scalability of the system. All modules can be easily extended and combined. The Webterminal module using Workflow can be added to the Time Management module, or the Access Control module can be combined with the Visitor Management module. When combined, the modules fit together seamlessly to form a standardised presentation layer. Interface problems and duplicate data entries can be avoided because all the modules access the same data records. The hardware is also closely integrated. Existing devices can continue to be used when hardware is upgraded. Individual components can be used for different functions. Thus, alarm systems can be armed using access readers while time and access bookings can be made on terminals.

SECURE AND USER-FRIENDLY

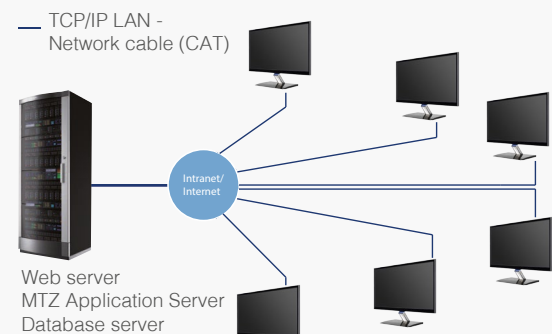
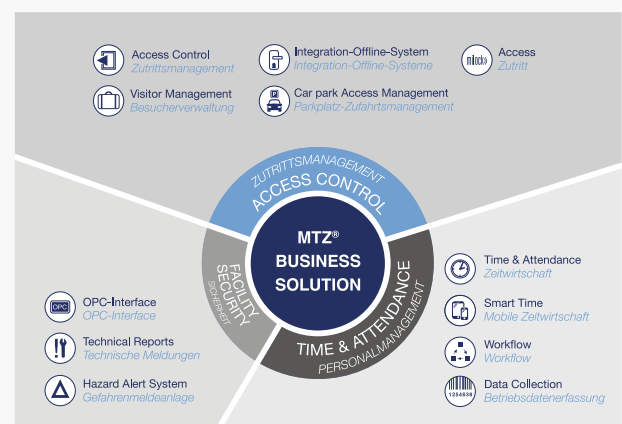


Fig. Application Service Providing

MTZ® Business Solution is known for the high degree of security it provides as well as for its user-friendliness and configurability.



User access rights can be precisely defined and sensitive data securely protected. Thanks to its sophisticated system configuration, the software always meets the individual needs of customers. Users can set up the software according to their own specific tasks and select their own user language. MTZ® Business Solution enables complex data relationships to be effectively represented and easily used.

Software

MTZ® Business Solution

ARCHITECTURE OF A 3-STEP WEB APPLICATION

The MTZ® Business Solution is a web application with a 3-step architecture. It is used either on the Intranet or Internet and provides the following features:

- Linear scalability. Continual development is assured in order to meet user demands and keep up with the complexity of business procedures.
- Constant availability of services. Redundancy and functional specialisation is employed in order to eliminate faults.
- Data and infrastructure security. Protection against wilful attacks or theft.
- Simple and comprehensive management. This is a prerequisite for growth.

The multi-layer MTZ® Business Solution architecture comprises the following layers:

- Presentation layer (user interface)
- Application layer (program logic)
- Data layer (data management)

— TCP/IP LAN - Network cable (CAT)

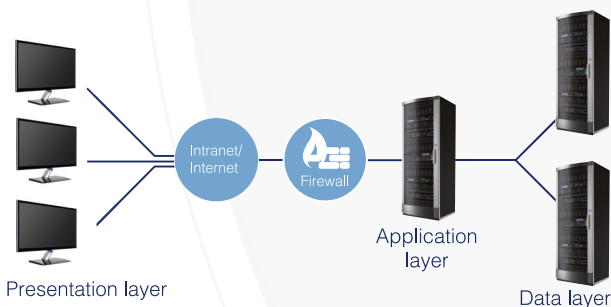


Fig. 3-step architecture

The screenshot shows the 'People overview' interface. It displays a list of people with columns for Name, Status, and other details. The interface is in German and includes a sidebar with navigation options like 'Personaltableau', 'Antrag', 'Tragsliste', 'Anfrage', and 'Status'.

Fig. People overview

FEATURES

- HTML-based programming ensures platform independence (see system requirements)
- No or little installation is required on the clients
- Modules or locations can be easily added
- Duplicate entry is not possible when several modules are combined
- Standardised presentation layer
- No limit to number of employees
- Multi-client capability
- Multiple languages supported (German, English, French, Arabic)
- User-specific configuration
- Versatile analysis options thanks to a variety of ledgers
- Can be employed in various manufacturing and service-oriented enterprises such as banks, insurance companies, government or municipal authorities, airports, hospitals, etc.

The screenshot shows the 'Planning overview' interface. It displays a calendar view with columns for days of the week and rows for different planning periods. The interface includes various filters and options for viewing the data, such as 'Auswahl Zeitraum', 'Erstenden der Zeile für', and 'Farbliche Kennzeichnung der'.

Fig. Planning overview

Software

MTZ® Business Solution System Requirements

The following MTZ® Business Solution system requirements are recommended for ensuring optimal operation. If the system is small, it is possible to run the application server, the database server and the communications server on one computer. In bigger systems, the database should run on a second computer. Observe the minimum system requirement values when the system is split up into several computers.

APPLICATION SERVER (MINIMUM REQUIREMENTS)

Please contact MIDITEC for installations with more than 1000 employees.

APPLICATION SERVER

Ports	Port 9000 or 80 (JBoss, http, incoming, config.) Port 443 (JBoss, http, incoming, config.) Port 8000 (Communication server, outgoing, configurable)
Runtime environment	Java JRE 1.8.0_101 (incl. in delivery) ¹
Operating system	Windows Server 2003 SP1 (32 / 64 bit) Windows Server 2008 Windows Server 2008R2 Windows Server 2012 Windows Server 2012R2
Browser	Internet Explorer 32 bit Internet Explorer 64 bit (Java JRE 64 bit) Firefox 32 bit
Misc. software	Acrobat Reader 10 / 11 / DC
Network card	With installed TCP/IP protocol and static IP address
Drive	DVD
Resolution	min. 1,024 x 768 pixels
Processor	min. 2 GHz, 4 cores
Memory	min. 2 GB (up to 100 employees) min. 4 GB (64 bit, up to 5,000 employees) min. 8 GB (64 bit, up to 15,000 employees)
Harddisk	20 GB (up to 100 employees) 50 GB (up to 500 employees) 100 GB (up to 1,000 employees) Please contact MIDITEC for installations with more than 1,000 employees.

COMMUNICATION SERVER

The computer on which the data exchange to the terminals takes place should provide the following interfaces:

- For network terminals: Ethernet 10/100/1000 MBit/s (TCP/IP protocol)
- For local terminals: serial interfaces (USB, RS232)

DATABASE SERVER

The hardware requirements for an external database server are the same as for the application server .

CLIENT (BROWSER)

For parameterisation, daily maintenance, report generation.

Operating system	Windows 7 (32 / 64 bit) Windows 8 (32 / 64 bit) Windows 10 (32 / 64 bit) Mac OS 10.5 (not actively supported) Linux (not actively supported)
Browser	Internet Explorer 32 bit Internet Explorer 64 bit (Java JRE 64 bit) Firefox 32 bit
Misc. software Runtime environment	Acrobat Reader 10 / 11 / DC Java JRE 1.8.0_101 Does not apply to Smart Time. (Please use the supplied Java version on the DVD and disable the automatic Java update.)
Network card	With installed TCP/IP protocol and defined IP address (static or DHCP) External sites require a data connection of at least 10 MBit/s per client
Processor	min. 2 GHz
Memory	min. 2 GB RAM
Resolution	min. 1024 x 768 pixels

¹Java JRE 1.8.0_101 is required for the system. Please use the supplied Java version on the DVD and disable the automatic Java update.



MTZ® Time

Time Management | Production Data Acquisition | Workflow | Interfaces

Software

MTZ® Time

MTZ® TIME

WORKING TIMES

- Up to 9,999 working hour models
- Fixed working hours and flextime working
- Flexible shift types
- Negative-time management
- Tariff regulations

PLANNING AND CALCULATION

- Automatic planning of working hours
- Manual changes to the automatic planning
- Planning of future absence periods
- Automatic full-time/part-time calculation
- Automatic shift detections at shift changeovers
- Shift counter
- Fixed and variable breaks
- Holiday entitlement absolute, according to actual age and/or length of time with the company
- Account settlement
- Interactive correction list

LEDGERS AND ANALYSES

- Daily ledger
- Monthly ledger (monthly ledger generator)
- Employee ledger
- Booking ledger
- Planning overview
- Absence reason statistics
- Blocked cards
- Presence/absence list (online)
- Logbook with extensive query filters

PARAMETER SETTINGS

- Freely definable fields in the employee profile
- Editable holiday calendar
- Detailed system configuration
- User configuration (language, display, ...)
- Configuration of access rights to dialog boxes, reports and functions
- Normal time and industrial time
- Templates for the employee profiles

EXTENSIONS

- LDAP Import Interface
- Import Interface Pro
- Personnel Panel
- SAP HR / PDC Interface
- Payroll Interface
- Workflow / Webterminal
- Product Data Acquisition
- On-Call Duty
- Import/Export module for MTZ® BS

OTHER MTZ® BUSINESS SOLUTION MODULES

- Access Management
- Visitor Management
- Hazard Detection System

► FUNCTIONS

- Multilingual (German, English, further languages on request)
- Application server - only one central installation
- Access via Intranet/Internet
- Platform-independent on client computer side
- Multi-client compatibility
- Detailed control of access, read and write permissions
- No limit to number of employees
- Easily extendable modular system
- All modules use one employee profile
- Perfectly coordinated software and hardware
- Flexible parameterisation
- Suited for all industries and enterprise sizes

Software

MTZ® Time

Refer to the „Business Solution System Requirements“ chapter for information on the computer hardware and operating system requirements.

▼ BASIC MODULE LANGUAGE

MB6000	MTZ® Time German
MB6001	MTZ® Time English

Other languages on request.

▼ BASIC MODULE MTZ® TIME

MB5001	Time Management MTZ® Time up to 50 employees
MB5002	Time Management MTZ® Time up to 100 employees
MB5003	Time Management MTZ® Time up to 250 employees
MB5004	Time Management MTZ® Time up to 500 employees
MB5005	Time Management MTZ® Time up to 1,000 employees
MB5006	Time Management MTZ® Time up to 2,000 employees
MB5007	Time Management MTZ® Time up to 3,000 employees
MB5008	Time Management MTZ® Time up to 5,000 employees
MB5009	Time Management MTZ® Time up to 10,000 employees

Larger installations on request.

▼ EXTENSION MODULE EMPLOYEES

MB5020	Time Management MTZ® Time extension by 50 employees
MB5021	Time Management MTZ® Time extension by 250 employees
MB5022	Time Management MTZ® Time extension by 1,000 employees

▼ EXTENSION MODULE LANGUAGE

MB5221	Extension Language German
MB5222	Extension Language English

Other languages on request.

Software

MTZ® Time Extensions and Interfaces

▼ MTZ® PDA

MB5250	MTZ® PDA Basic Module Cost Centre includes cost centre booking (only in combination with MB500x)
MB5251	MTZ® PDA Extension Module Cost Unit includes cost unit booking (only in combination with MB5250)

▼ MTZ® SMART TIME

MB5200	MTZ® Smart Time Basic Module incl. 25 participants (only in combination with MTZ® Time)
MB5201	Extension MTZ® Smart Time of 25 participants
MB5202	Extension MTZ® Smart Time of 50 participants
MB5203	Extension MTZ® Smart Time of 250 participants
MB5204	Extension MTZ® Smart Time of 1,000 participants
MB5205	MTZ® PDA Basic Module Cost Centre for Smart Time up to 25 employees (only in combination with MB500x, MB5250 and MB5200)
MB5206	Extension MTZ® PDA Cost Centre for Smart Time per participant (only in combination with MB500x, MB5250, MB5200 and MB5205)
MB5207	Extension MTZ® PDA Basic Module Cost Unit for Smart Time up to 25 employees (only in combination with MB500x, MB5250, MB5200 and MB5205)
MB5244	GPS Data Acquisition for MTZ® Smart Time (only in combination with MB5200)
MH5133	Camera Function for MTZ® Smart Time (required position when ordering a P6xxx terminal)

▼ EXTENSION MODULES

MB5235	MTZ® On-Call Duty Light
MB5240	MTZ® ID Card Creation
MB5050	MTZ® Personnel Panel
MB5245	MTZ® Unique ID Numbers incl. key coder
MB6807	MTZ® BS Import/Export module for MTZ® BS

▼ INTERFACES

MB51xx	Payroll Interfaces
MB5230	Import Interface Pro
MB5237	LDAP Import Interface
MB680x	SAP-HR-PDC Interfaces

Software

MTZ® PDA | Extension for MTZ® Time

Production Data Acquisition allows the easy recording of PDA entries. These could be cost centre or cost unit entries, for example, which are gathered either at hardware devices (terminals) or on the PC via the Smart Time module. With PDA, frequent transactions can be preconfigured via "favorite" buttons so that a complete booking can be generated with only a few clicks.

From the entered PDA times, PDA time intervals are calculated in the MTZ® Time base module, which are then available for analysis or pay transfer. Authorisation profiles are used to specify which employees may perform which PDA entries.

Each extension stage includes the option of surcharge billing for evaluating costs with mandatory surcharges according to cost centre and order.

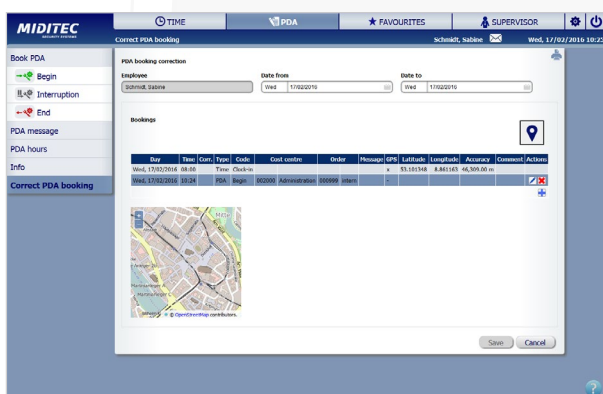


Fig. PDA booking

FUNCTIONS

- Cost centres
- Cost units/orders
- Surcharge billing
- Analyses

BOOKINGS AT THE PDA TERMINAL

- Start of processing
- End of processing
- Completion
- Interruptions
- Quantities

PDA BOOKINGS

- Checking
- Supplementing
- Correcting

COST UNIT HISTORY

- Logs changes to master cost unit
- Logs changes to companies and departments
- Allows master cost unit pre-planning

COST UNIT / ORDER

- Time allocation
- Completion deadline
- Target/actual time comparison
- Freely defined customer data

EVALUATION OF TIMES WITH MANDATORY SURCHARGE

- Related to cost centre
- Related to order (related to cost unit)

▼ MTZ® PDA

MB5250 MTZ® PDA Basic Module Cost Centre includes cost centre booking (only in combination with MB500x)

MB5251 MTZ® PDA Extension Module Cost Unit includes cost centre booking (only in combination with MB5250)

Software

MTZ® Smart Time | Extension for MTZ® Time

MTZ® SMART TIME

MTZ® Smart Time stands for paperless workflow and the integration of external locations into the personnel management system. Via Internet or Intranet the employees are able to book times, correct false bookings or plan and request absence times using their own PC. Supervisors get transparency and planning overview as they can check the personnel situation of their group for any time period they need. They can directly correct the entries made by the employees or process requests. Supervisor rights in the MTZ® Time module of MTZ® Business Solution can be passed on to MTZ® Smart Time. Lists and evaluations in the modules MTZ® Time or MTZ® Access are directly available.

MTZ® Smart Time is the HTML frontend of MTZ® Time for frequent time bookings. MTZ® Smart Time runs without Java installation also on thin clients and relies on simple operation. It can be used via e.g. PC, smartphone and tablet whereby a connection to the MTZ® application server is always required.

The user interface is ergonomically adapted to the user. Selection fields offer a quick search function to allow quick data selection. As the latest date and dialog settings are maintained during one session and wherever appropriate even session-independent the operation of MTZ® Smart Time is quite simple.

Dialogue tab pages can be displayed side by side. Dialogues are implemented as tiles and are printable individually. At any application step notifications on workflow incidents, such as requests (e.g. absence requests, substitution requests, modification requests) or approvals, are signalled by a letter icon. Frequently used PDA bookings can be preconfigured with favourite buttons.

If activated, GPS data can be collected with the bookings. These can be displayed and reviewed on a map in MTZ® Time .

MTZ® Smart Time replaces the previous web terminal completely.

FUNCTIONS

- Time bookings (Clock-in, Clock-out, Absence reason)
- Booking absence reasons (Off-site work, doctor ...)
- PDA bookings (optional)
- Using multiple self-defined booking favourites for PDA bookings (optional)
- Booking corrections
- Collecting GPS data with bookings (optional)
- Workflow status
- Advanced calendar functions (WK, group calendar, school holidays)
- List allocation (PDF, Excel)
- Requests printable individually

INFORMATION FOR EMPLOYEES

- Bookings
- Presence and absence times
- Balances
- Holiday balances
- Order data (for PDA)
- Personnel panel (optional)

INFORMATION FOR SUPERVISORS

- Current insight into employees' data, latest bookings, balances, calendar planning, etc.
- Preliminary planning / corrections via the monthly and/or daily ledger
- Correction list processing and combined corrections possible over several days
- Request processing with calendar views

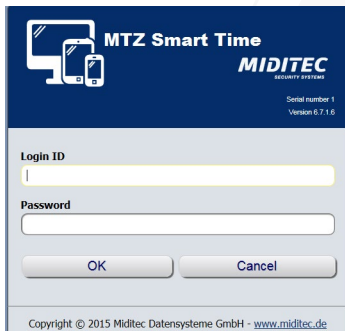
PARAMETER SETTINGS

- Flexible multistage approval levels
- Person-related profiles defining the functions and dialogues to be called
- Rules for password modification / expiry
- Automatic logout at inactivity timeout (configurable)
- Automatic clock-in booking possible for PDA bookings
- Booking favourites and start page definable
- User languages: German or English
- Comfortable start of the programme (predefined values for URL, user, password, etc.)

Software

MTZ® Smart Time | Extension for MTZ® Time

Examples for the software representation on a PC monitor



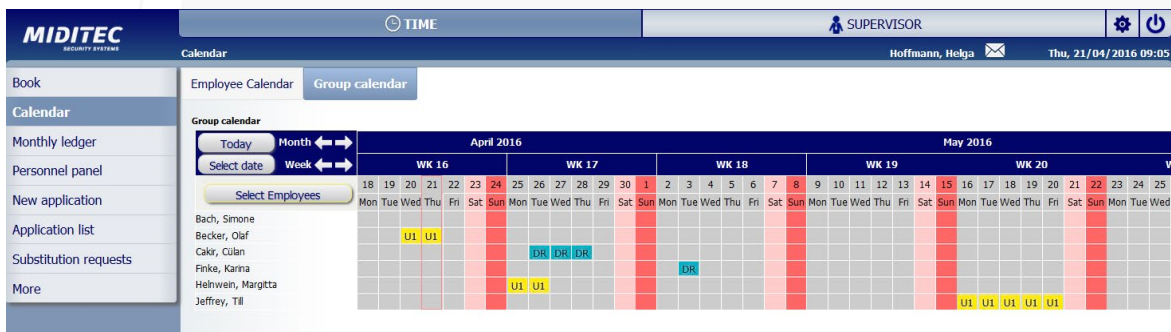
MTZ Smart Time
MIDITEC
Serial number 1
Version 6.7.1.6

Login ID
[Input field]

Password
[Input field]

OK Cancel

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MIDITEC TIME SUPERVISOR Hoffmann, Helga Thu, 21/04/2016 09:05

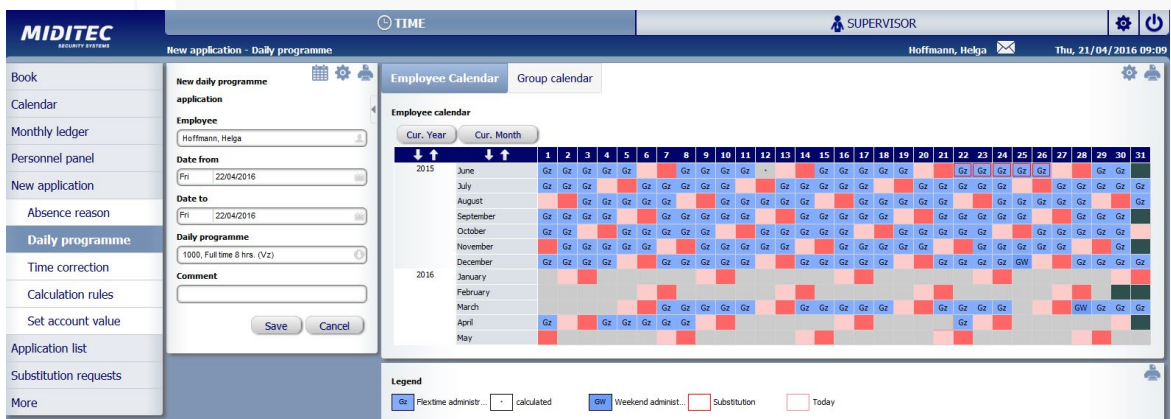
Calendar: Employee Calendar Group calendar

Group calendar

Today Month Select date Week Select Employees

April 2016							May 2016																								
WK 16	WK 17	WK 18	WK 19	WK 20	WK 21	WK 22																									
18 Mon	19 Tue	20 Wed	21 Thu	22 Fri	23 Sat	24 Sun	1 Mon	2 Tue	3 Wed	4 Thu	5 Fri	6 Sat	7 Sun	8 Mon	9 Tue	10 Wed	11 Thu	12 Fri	13 Sat	14 Sun	15 Mon	16 Tue	17 Wed	18 Thu	19 Fri	20 Sat	21 Sun	22 Mon	23 Tue	24 Wed	25 Thu

Employees: Bach, Simone; Becker, Olaf; Cakir, Cilan; Finke, Karina; Heinwein, Margitta; Jeffrey, Till



MIDITEC TIME SUPERVISOR Hoffmann, Helga Thu, 21/04/2016 09:09

New application - Daily programme

New daily programme application

Employee: Hoffmann, Helga

Date from: Fri 22/04/2016

Date to: Fri 22/04/2016

Daily programme: 1000, Full time 8 hrs. (Vz)

Comment: [Input field]

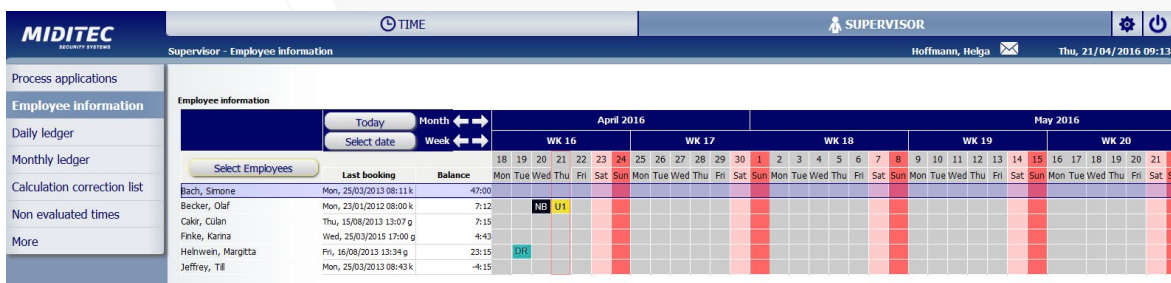
Save Cancel

Employee calendar

Cur. Year Cur. Month

2015	June	July	August	September	October	November	December	2016	January	February	March	April	May

Legend: Flextime administr... calculated GW Weekend administr... Substitution Today



MIDITEC TIME SUPERVISOR Hoffmann, Helga Thu, 21/04/2016 09:13

Supervisor - Employee information

Employee information

Today Month Select date Week Select Employees

April 2016							May 2016																								
WK 16	WK 17	WK 18	WK 19	WK 20	WK 21	WK 22																									
18 Mon	19 Tue	20 Wed	21 Thu	22 Fri	23 Sat	24 Sun	1 Mon	2 Tue	3 Wed	4 Thu	5 Fri	6 Sat	7 Sun	8 Mon	9 Tue	10 Wed	11 Thu	12 Fri	13 Sat	14 Sun	15 Mon	16 Tue	17 Wed	18 Thu	19 Fri	20 Sat	21 Sun	22 Mon	23 Tue	24 Wed	25 Thu

Employees: Bach, Simone; Becker, Olaf; Cakir, Cilan; Finke, Karina; Heinwein, Margitta; Jeffrey, Till

Software

MTZ® Smart Time | Extension for MTZ® Time

Examples for the software representation on mobile devices

The screenshot shows the main menu of the MTZ Smart Time mobile app. At the top is a navigation bar with icons for clock, list, user, settings, and power. Below the bar is a header with the 'M Time' logo and a help icon. The main content area is a list of menu items: Book, Calendar, Monthly ledger, Personnel panel, List view, New application, Application list, Substitution requests, and More. The 'Book' item is highlighted with a yellow bar.

The screenshot shows the 'Book time' screen of the MTZ Smart Time mobile app. At the top is a navigation bar with icons for clock, list, user, settings, and power. Below the bar is a header with the 'M Book' logo and a help icon. The main content area displays 'Book time' with a printer icon. Below this is a large digital clock showing 'Time 09:57:54'. Underneath, it says 'Location determined: Yes'. There is a section for 'Absence reason (optional)' with a dropdown menu showing '33, Off-site work (Dg)' and an information icon. At the bottom is a large red button labeled 'Clock-out'.

The screenshot shows the 'New application - Absence...' screen of the MTZ Smart Time mobile app. At the top is a navigation bar with icons for clock, list, user, settings, and power. Below the bar is a header with the 'M New application - Absence...' logo and a help icon. The main content area is titled 'New absence reason application' with a printer icon. It contains several form fields: 'Employee' (Smith, John), 'Date from' (Mon 22/02/2016), 'Date to' (Fri 04/03/2016), 'Absence reason' (20, Holiday all day (Ug)), 'Substitute 1' (Zettel, Zacharias), 'Substitute 2' (empty), and a 'Comment' field. There is a 'Prebook' checkbox and 'Save' and 'Cancel' buttons at the bottom.

The screenshot shows the 'Info - Overview' screen of the MTZ Smart Time mobile app. At the top is a navigation bar with icons for clock, list, user, settings, and power. Below the bar is a header with the 'M Info - Overview' logo and a help icon. The main content area is titled 'Info overview' with a printer icon. It contains two sections: 'Base data' and 'Time info overview'. The 'Base data' section is a table with the following data:

Base data	
Name	Smith, John
Employee no.	1033
Company	Zettel & Partner GmbH
Department	Administration
Basic cost centre	Vending

The 'Time info overview' section is a table with the following data:

Time info overview	
Vacation	30.00
Rem. Days Vacation	30.00
Saldo Online	86:52
Saldodif. Online	94:52

At the bottom of the 'Time info overview' section are 'Refresh' and 'More >>' buttons.

Software

MTZ® Smart Time | Extension for MTZ® Time

▼ MTZ® SMART TIME

MB5200	MTZ® Smart Time Basic Module incl. 25 participants (only in combination with MTZ® Time)
MB5201	Extension MTZ® Smart Time of 25 participants
MB5202	Extension MTZ® Smart Time of 50 participants
MB5203	Extension MTZ® Smart Time of 250 participants
MB5204	Extension MTZ® Smart Time of 1,000 participants

▼ OTHER EXTENSIONS

MB5244	GPS Data Acquisition for MTZ® Smart Time (only in combination with MB5200)
MH5133	Camera Function for MTZ® Smart Time (required position when ordering a P6xxx terminal)

▼ MTZ® PDA SMART TIME

MB5205	MTZ® PDA Basic Module Cost Centre for Smart Time up to 25 employees (only in combination with MB500x, MB5250 and MB5200)
MB5206	Extension MTZ® PDA Cost Centre for Smart Time per participant (only in combination with MB500x, MB5250, MB5200 and MB5205)
MB5207	Extension MTZ® PDA Basic Module Cost Unit for Smart Time up to 25 employees (only in combination with MB500x, MB5250, MB5200 and MB5205)

Licences:

MTZ® Smart Time Basic Module; MTZ® Smart Time Number
of participants; MTZ® Smart Time GPS data processing

Provided that the MTZ® BDE Basic Module is licensed, it is
possible to acquire MTZ® Smart Time and MTZ® Smart Time
number of participants.

Software

MTZ® PDA Smart Time | Extension for MTZ® Time

MTZ® PDA SMART TIME

With the option MTZ® PDA Smart Time it is possible to make cost centre bookings or cost unit bookings (according to PDA license). Each PDA booking can be commented. By means of freely definable information messages, the message system can individually be adapted to any company.

A special PDA information page informs about the current PDA booking or, in case of the cost unit module, about the target time and the actual time.

Via the hours input option contained in the PDA module, the employee can easily distribute the net time of a day to different cost centres or cost units using Smart Time. This time division can be transferred to the supervisor for approval. For this, the common MTZ® Smart Time E-mail notifications can be used.

All important functions can be set in the Smart Time profile in such a way that corrections or subsequent PDA bookings can be effected by the employee himself.

With the respective setting it is possible to perform quantity bookings such as good quantity or reject quantity (with or without comment) to a cost unit.

FUNCTIONS

- Cost centre bookings
- Cost unit bookings
(only in combination with MB5251)
- Quantity bookings
(only in combination with MB5251)
- PDA booking corrections
- Configurable booking profiles
- Entering PDA hours (with/without request)

PARAMETER SETTINGS

- Flexible booking profiles
- Definable approval levels for entering hours
- E-mail notification for requests / approvals

► YOUR BENEFITS

- Simple and quick collection of operating data
- Current status messages with comments
- With the option MTZ® PDA Smart Time the employee has control over his work, can actively contribute to the PDA and gather his PDA status

▼ MTZ® PDA SMART TIME

MB5205	MTZ® PDA Basic Module Cost Centre for Smart Time up to 25 employees (only in combination with MB500x, MB5250 and MB5200)
MB5206	Extension MTZ® PDA Cost Centre for Smart Time per participant (only in combination with MB500x, MB5250, MB5200 and MB5205)
MB5207	Extension MTZ® PDA Basic Module Cost Unit for Smart Time up to 25 employees (only in combination with MB500x, MB5250, MB5200 and MB5205)



MTZ[®] Access

Access Management | Visitor Management | Offline systems

Software

MTZ® Access

MTZ® ACCESS

From simple access control to high-security wing protection–MTZ® Access adapts flexibly to your needs.

Access technologies such as biometrics, PIN code, panic code, anti-passback, area changeover control or dual-control principle are easily applied and freely combinable.

Individually configurable weekly programmes and time zones ensure that access permissions can be precisely configured for each employee. Authorised persons are free to come and go while unauthorised persons are strictly denied access.

Any irregularities are immediately recognised via the internal system monitoring and appropriate actions can be taken or suggested. All processes are automated as far as possible, yet manual intervention is possible at any time.

The access control solution can be expanded by a hazard detection system or a building security management system.

ANALYSES

Online ledgers and access overviews provide an overview of all current and past access bookings. The area changeover control feature indicates which persons are located in which areas and how many persons are present in the whole building.

CARD BLOCKING

Card blocking allows access permissions to be withdrawn at any time and ensures that entire key systems do not need to be replaced.

PERSONNEL EVENTS

Personnel events enable extra functions to be defined for an access booking specific to a person.

COMBINED WITH OFFLINE LOCKING SYSTEMS

Using the MTZ® milock Locking System or the PegaSys Locking System, it is possible to connect stand-alone door terminals or electronic cylinder locks to the access control network.

► YOUR BENEFITS

- High level of security with less work involved
- Easy operation for all employees
- Low costs when cards are lost
- Integrated biometrics solutions
- Analyses and messages provide all relevant information at one glance
- Access time can be freely configured
- The modular design of the system allows video surveillance and visitor management modules as well as a hazard detection system to be added
- Integration of various offline locking systems

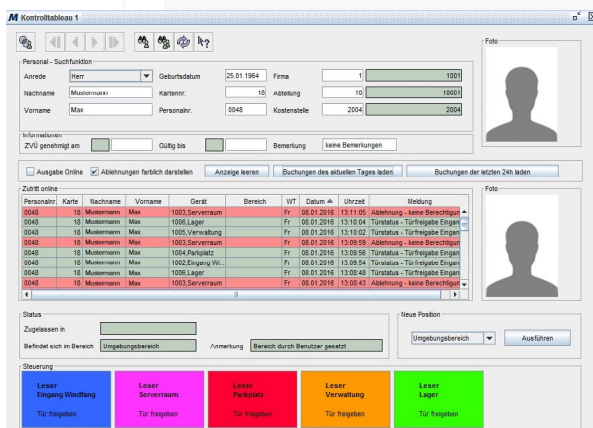


Fig. Access Control Panel

HARDWARE

The hardware is equipped with contactless reader technology. This ensures that access bookings are carried out easily and trouble-free. Extra protection can be provided for sensitive areas via the use of biometrics.

Software

MTZ® Access

MTZ® ACCESS

ACCESS MANAGEMENT

- Control of doors, barriers, locks and elevators
- Door monitoring
- Threat code
- Temporary or general door release

ACCESS TIMES

- Definition of up to 99 time zones
- Up to 127 weekly programmes for time-controlled access
- Freely definable blocked days and blocked groups with special regulations (e.g., holidays)

ACCESS AUTHORISATION

- With card
- With card and PIN code
- PIN code entry

BIOMETRY

- On request

SECURITY FUNCTIONS

- Area changeover control
- Dual-control principle
- Anti-passback
- Monitoring of hardware function errors
- Monitoring of readers via logging
- Event-related relay control

LOGGING AND ANALYSES

- Logging of all error messages
- Online analyses of current movements, with optional passport photo display
- History of past movements with extensive query filters
- Presence control and counting in defined areas

AUTOMATIC MESSAGING SYSTEM

- Message output on screen / printer
- Instant error message display
- E-mail notification

EXTENSIONS

- MTZ® Door Panel
- MTZ® Reader Panel
- MTZ® Area Changeover Control
- SAP® Interface
- Import Interface Pro
- Integration Offline Locking System milock or PegaSys Locking System
- MTZ® Car Park
- Locker Locking Systems
- OPC Interface
- Hotel Access
- Visitor Management
- Hazard Detection System
- Import/Export module for MTZ® BS

OTHER MODULES

- Time Management / PDA / Smart Time

► FUNCTIONS

- Multilingual (German, English, further languages on request)
- Browser application – only one central installation
- Access via Intranet/Internet
- Platform-independent on client computer side
- Multi-client compatibility
- Detailed control of access, read, and write permissions
- No limit to number of employees
- Easily extendable modular system
- All modules use one employee profile
- Perfectly coordinated software and hardware
- Flexible parameterisation
- Suited for all industries and enterprise sizes

Software

MTZ® Access

Refer to the „MTZ® Business Solution Requirements“ chapter for the application server, client PC and operating system requirements.

▼ BASIC MODULE LANGUAGE

MB6300	MTZ® Access German
MB6301	MTZ® Access English

Other languages on request.

▼ BASIC MODULE MTZ® ACCESS

MB5300	Access Management MTZ® Access up to 25 employees
MB5301	Access Management MTZ® Access up to 50 employees
MB5302	Access Management MTZ® Access up to 100 employees
MB5303	Access Management MTZ® Access up to 250 employees
MB5304	Access Management MTZ® Access up to 500 employees
MB5305	Access Management MTZ® Access up to 1,000 employees
MB5306	Access Management MTZ® Access up to 2,000 employees
MB5307	Access Management MTZ® Access up to 3,000 employees
MB5308	Access Management MTZ® Access up to 5,000 employees
MB5309	Access Management MTZ® Access up to 10,000 employees

Larger systems on request.

▼ EXTENSION MODULE EMPLOYEES

MB5320	Access Management MTZ® Access extension by 50 employees
MB5321	Access Management MTZ® Access extension by 250 employees
MB5322	Access Management MTZ® Access extension by 1,000 employees

▼ EXTENSION MODULE LANGUAGE

MB5221	Extension Language German
MB5222	Extension Language English

Other languages on request.

Software

MTZ® Access Extensions

▼ MTZ® VISITOR

MB5351	MTZ® Visitor only in combination with MB530x
MB5344	Extension by 25 visitors
MB5345	Extension by 50 visitors
MB5346	Extension by 250 visitors
MB5347	Extension by 1,000 visitors

▼ EXTENSION MODULES MTZ® VISITOR

MB5355	Digital Signature only in combination with MB5351
MB5356	Project Management only in combination with MB5351

▼ EXTENSION MODULES MTZ® MILOCK LOCKING SYSTEM

MB53xx	MTZ® milock Locking System is included as standard when relevant hardware will be ordered
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▼ EXTENSION MODULES MTZ® PEGASYS LOCKING SYSTEM

MB5310	MTZ® PegaSys Locking System Basic module incl. 25 doors
MB5311	Extension up to 25 doors
MB5312	Extension up to 50 doors
MB5313	Extension up to 250 doors
MB5314	Extension up to 1,000 doors

▼ EXTENSION MODULES HAZARD DETECTION SYSTEM

	MTZ® Hazard Detection
MB5342	Up to 60 detectors
MB5343	Up to 90 detectors
MB5341	More than 90 detectors

▼ EXTENSION MODULES

MB5357	MTZ® Car Park
MB5354	Software Locker Locking System
MB5240	MTZ® ID Card Creation
MB5362	MTZ® Area Changeover Control
MB5360	MTZ® Door Panel
MB5361	MTZ® Reader Panel
MB5245	MTZ® Unique ID Numbers incl. key coder
MB6807	MTZ® BS Import/Export module for MTZ® BS

▼ INTERFACES

MB5230	Import Interface Pro
MB5237	LDAP Import Interface
MB680x	SAP-HR-PDC Interface
MB5212	Connection to non-database Oracle
MB5350	OPC UA Interface for MTZ® Business Solution
MB5348	OPC UA Converter-DA only in combination with MB5350
MB5385	Elevator Interface Kone

Software

MTZ® Visitor | Extension for MTZ® Access

MTZ® VISITOR

To allow visitors to move freely within defined boundaries, all visitors are given a card granting them access to specific rooms, yet only for the duration of their visit. Employees who are expecting a visitor can pre-register their guest, specifying important data such as visitor name and duration of visit. That way, the reception desk will have all the essential information at hand when the visitor arrives. The MTZ® Time software can be used to check whether the contact person is available. The temporary access permissions expire automatically when the visiting period is over.

MTZ® Visitor allows the reception desk to concentrate on visitor management, registration and access overview without having to worry about system configuration and access management. These functions are defined by security staff in MTZ® Access. Optionally, visitor cards and visitor documents can be easily created.

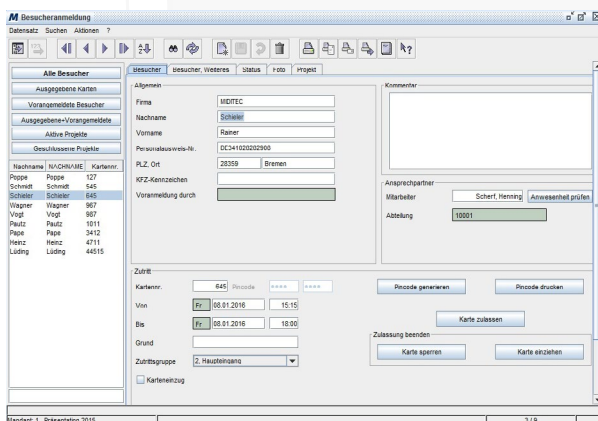


Fig. Visitor registration

► YOUR BENEFITS

- Routine tasks are simplified and optimised
- Visitor data are archived and can be quickly retrieved; the visitor waiting times are reduced
- Visitors are free to move around in the specified areas
- Pre-registration allows visitor cards to be generated in advance and visitor data to be entered prior to the actual visit
- Analysis features offer a precise overview of all visitor data

FUNCTIONS

- Visitor pre-registration by users
- Access granted to defined areas only
- Separate user interface for the reception desk
- Card authorisation / blocking
- Freely definable entry fields in the visitor master profile
- Automatic blocking periods
- Data archival
- Automatic deletion of visitor master profile after a set period of time
- Automatic login and logout via booking at an access reader
- Passport photo can be included in visitor profile

DEFINITION OF

- Access periods
- Times of day
- Areas

ANALYSES

- Access overview
- Visitor ledger
- Logging of all procedures
- Overview of all issued and all blocked cards

CHECKS

- Presence of contact person (only with MTZ® Time)

EXTENSIONS

- Creation of visitor cards and visitor documents in any format
- Digital signature
- Project management

Software

Extensions for MTZ® Visitor

DIGITAL SIGNATURE



The „Digital Signature“ licence option extends the MTZ® Visitor module and allows visitor signatures to be included in visitor cards or visitor documents.

The visitor signature is submitted by means of a Wacom tablet STU-430 and stored in the database. The visitor just has to sign, and the signature is automatically taken over by the software.

The digital signature is especially interesting for required safety instructions, card reception or instructions the visitor has to sign. The visitor can read the respective instructions on the PC monitor whereby different forms can be available in different languages. With his signature the visitor confirms to have read the instructions or to have received his card and signs digitally. The signature is automatically taken over and stored and is visible for the visitor when registering. The validity of the signature can be limited to a certain period of time. Thus, the instructions have to be repeated when this period has elapsed.

▼ DIGITAL SIGNATURE

MB5355	Digital Signature
MH5011	Wacom signature tablet STU-430

▼ PROJECT MANAGEMENT

MB5356	Project Management
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PROJECT MANAGEMENT

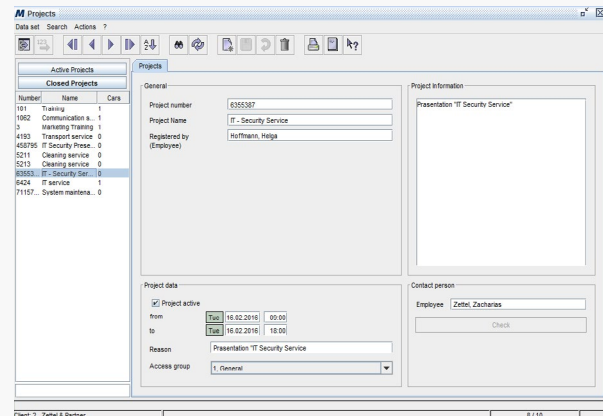


Fig. Projects for visitors

The „Project Management“ licence option is an extension for the MTZ® Visitor software and allows the user to track the project to which a visitor has been assigned and to determine the number of visitors who are currently assigned to a specific project.

Projects are defined for a specific period of time and are only active for that period. The visitor registers to a specific project and is authorised for this project. Access authorisations and contact persons can be automatically assigned while the visitor is registered to a project.

The „Project Management“ option allows users to view the active projects and the visitors assigned to specific projects; thus, the „Project Management“ option provides a comprehensive overview and enhances customer security.

FUNCTIONS

- Extension of the visitor administration MTZ® Visitor
- Visitor assignment to active projects
- Display of currently present visitors on all active projects
- Definition of project validity
- Predefinition of access rights and contact person for every project makes the input easier for the user

Software

MTZ® milock Locking System | Extension for MTZ® Access

MTZ® MILOCK LOCKING SYSTEM

The MTZ® milock Locking System software allows you to easily connect milock offline components such as readers, fittings and cylinder locks to the MTZ® Access module. This means that all access authorisations (online and offline) can be managed via a single superordinate system.

Offline authorisations are managed by means of day tickets. Each employee must renew his individual authorisations by making day-to-day access bookings at a read/write reader located in the entrance area and connected online. Apart from the renewals also modified authorisations are written on the card. A block in the online system therefore automatically affects all relevant offline components.

The milock Locking System can be combined with the PegaSys Locking System. Hardware readers can extend only one system respectively.

FUNCTIONS

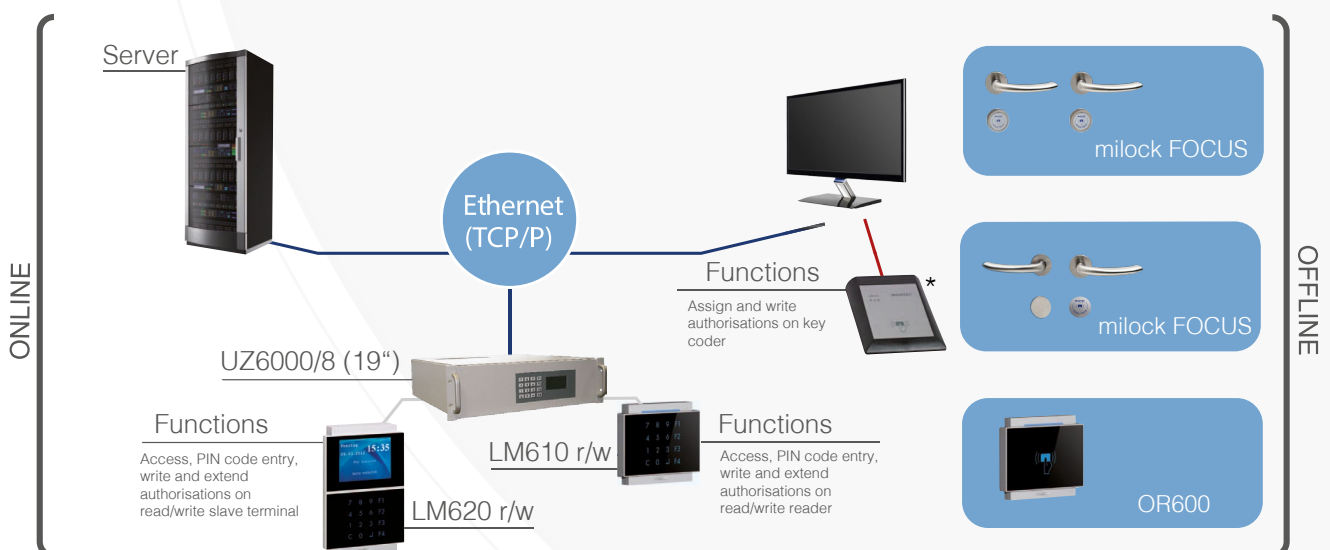
- Easy and secure integration of offline door terminals in an access control system network
- Deletion of access authorisations when a card is lost
- Management of up to 65,535 locks
- 256 group authorisations
- 4 single-door authorisations per person
- Definition of weekly programmes, time zones, blocked days

▼ MTZ® MILOCK LOCKING SYSTEM

MB53xx

MTZ® milock Locking System is included as standard when relevant hardware will be ordered

- TCP/IP LAN - Network cable (CAT)
- RS422 (cable J-Y(ST)Y 4 x 2 x 0.8 mm)
- USB



*similar to illustration

Software

MTZ® PegaSys Locking System | Extension for MTZ® Access

MTZ® PEGASYS LOCKING SYSTEM

The MTZ® PegaSys Locking System software allows you to easily connect PegaSys offline components such as readers, fittings and cylinder locks to the MTZ® Access module. This means that all access authorisations (online and offline) can be managed via a single superordinate system. Offline authorisations are managed by means of day tickets. Each employee must renew his individual authorisations by making day-to-day access bookings at a read/write reader located in the entrance area and connected online. Apart from the renewals also modified authorisations are written on the card. A block in the online system therefore automatically affects all relevant offline components.

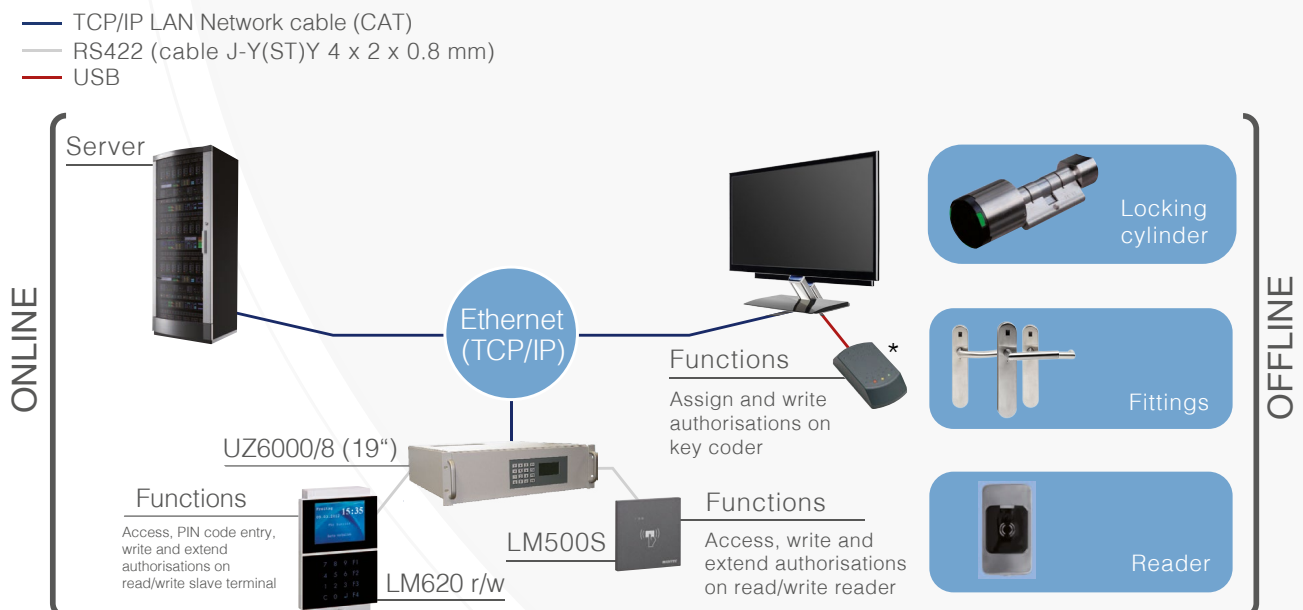
The milock Locking System can be combined with the PegaSys Locking System. Hardware readers can extend only one system respectively.

FUNCTIONS

- Easy and secure integration of offline door terminals in an access control system network
- Deletion of access authorisations when a card is lost
- Management of up to 65,535 locks
- 256 - 1024 group authorisations
- 2 - 16 single-door authorisations per person
- Definition of weekly programmes, time zones, blocked days

▼ MTZ® PEGASYS LOCKING SYSTEM

MB5310	MTZ® PegaSys Locking System Basic module incl. 25 doors
MB5311	Extension up to 25 doors
MB5312	Extension up to 50 doors
MB5313	Extension up to 250 doors
MB5314	Extension up to 1,000 doors



*similar to illustration

Software

MTZ® Hazard Detection | Extension for MTZ® Access

MTZ® HAZARD DETECTION

The hazard detection system is an extension to the MTZ® Access module. The GLT technology has up to 24 internal GLT bus lines for conventional GLT alarms. In addition, up to 8 external GLT controllers (each with 24 GLT bus lines) can be integrated.

Which actions shall be performed upon which alarm is configured in MTZ® Access. Actions range from simple monitor messages to automatic notification of the responsible security company. If the security service is on site, the security personnel can call up the location of the disruption directly on the terminal. This reduces response times and ensures quick and effective handling of the situation. The entire system or individual zones can be armed or disarmed via terminals or access readers with PIN code keypads.

Interfaces to the management systems are integrated and adaptable. Software and hardware can be easily expanded by additional modules such as video surveillance or visitor management.

The basic license contains the administration of up to 30 detectors.

ALARM SYSTEM

- Arming / disarming via terminals or access readers with PIN code keypad
- Arming / disarming of individual zones
- Automatic, time-controlled arming / disarming
- Configuration of actions to be taken at alarms
- Analysis of all alarms

GLT TECHNOLOGY

- Use of standard GLT components
- Use of up to 24 lines per controller
- Extendable – up to 8 external GLT controllers
- Configuration of detector groups
- Up to 4 preset detection lines (fire, attack, burglary, disruption)

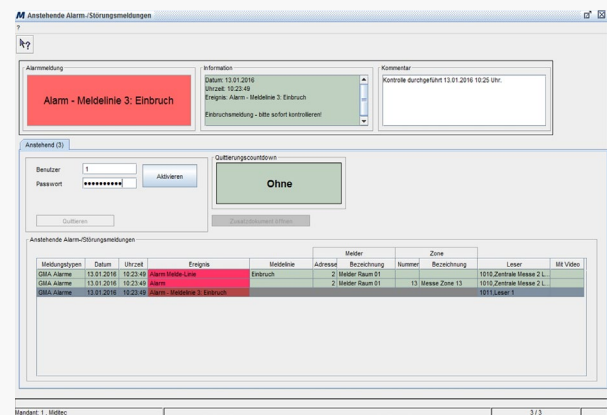


Fig. Message processing

FUNCTIONS

- Detector activation and deactivation via software
- Status display of detectors and zones
- Arming readiness check
- Area configuration
- Various authorisation levels for alarm acknowledgement
- Event-related relay control
- Reader function test

► YOUR BENEFITS

- High level of security for persons and objects
- Burglary, emergency, and technical detectors use a single system
- Extensions for car park and visitor management
- Up to 30 detectors included in the basic MTZ® Access module

▼ MTZ® HAZARD DETECTION

- MB5342 MTZ® Hazard Detection up to 60 detectors
- MB5343 MTZ® Hazard Detection up to 90 detectors
- MB5341 MTZ® Hazard Detection more than 90 detectors

Software

MTZ® Car Park | Extension for MTZ® Access

MTZ® CAR PARK

The MTZ® Car Park module provides features for car park management and parking fee billing.

In the MTZ® Car Park module, a car park is defined as an area with a specific number of car spaces which also defines the maximum number of employees/vehicles that can use the car park. When the maximum number has been reached, no vehicles are allowed to enter the car park. The „car park occupied“ status can be indicated by optical signals such as a red light.

From version 6.0 or later of the MTZ® Business Solution, the car park can be divided into sub-areas to which specific employees or visitors have access. Each area is counted separately.

At the access readers, the system checks whether the employee/vehicle is already on the car park. Centralised occupancy checking features allow for the creation and management of multiple car spaces or car spaces with multiple entrances and exits.

The employee's parking time can be captured via the entrance and exit readers and can be charged to the employee using a cost plan. The MTZ® Car Park module supports various billing types: parking fees may be charged on a fixed monthly basis or depending on the actual parking times.

Reports integrated in the MTZ® Car Park module indicate the incurred parking fees based on various criteria and can be transferred to a billing system as CSV files.

The actual occupancy status of the car park can be viewed in the software at any time. If required, operators can manually fix disruptions and relocate employees.

The screenshot shows the 'Parkplatzverwaltung' (Parking Management) window. It has a menu bar with 'Datei', 'Ansicht', and 'Hilfe'. Below the menu is a toolbar with icons for 'Parkplätze', 'Zurück', and 'Hilfe'. The main area is divided into two sections: 'Belegung' (Occupancy) and 'Übersicht' (Overview).

Belegung (Occupancy): This section shows a table with columns: 'Parkplatz', 'Zu vergebende Plätze' (Places to be assigned), 'Vergebene Plätze' (Assigned places), 'Freie Plätze' (Free places), and 'Belegung in %' (Occupancy in %). The table lists three parking areas: '100 Parkplatz Rosenstraße', '200 Parkplatz 1', and '400 Parkplatz 2'. The occupancy for '100 Parkplatz Rosenstraße' is 41/50 (82%).

Übersicht (Overview): This section shows a table with columns: 'Nr.', 'Karte', 'Nachname', 'Vorname', 'Firma', and 'Abteilung'. It lists employees and their access to the parking areas. The table is filtered to show only employees with access to '100 Parkplatz Rosenstraße'.

Buttons: There are buttons for 'Laden' (Load), 'Parkplätze zurücksetzen' (Reset parking spaces), and 'Ausführen' (Execute).

Fig. Parking availability

► YOUR BENEFITS

- Easy integration into MTZ® Access
- Evaluation of the current car parking occupancy status
- Car park control and security
- Evaluation of the costs per employee and car park

▼ MTZ® CAR PARK

MB5357

MTZ® Car Park

Software

Extensions for MTZ® Time

MTZ® ON-CALL DUTY LIGHT

The MTZ® On-Call Duty light refers to a time in which the employee is ready to be called to work – on normal workdays after the end of the normal working time and/or during the weekends – even when the employee has not performed "regular" work prior to the time point when the "on-call duty" time begins.

Employees leave their workplace – their on-call duty time begins and they are ready to be called to work. Employees document their on-call duty times by making the corresponding bookings at the hardware terminal or in the Smart Time software.

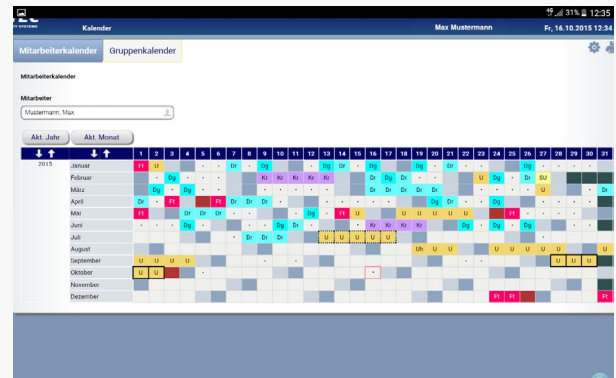


Fig. Planning overview

MTZ® PERSONNEL PANEL

The MTZ® Personnel Panel option provides an overview of the present and absent employees and of the pre-planned or booked absence reasons. The employees and statuses to be displayed are configurable.

The employee statuses are colour-coded. The meaning of the individual colours can be defined and is shown in the personnel panel.



Fig. Personnel Panel

▼ ORDER NUMBER

MB5235
MB5050

MTZ® On-Call Duty Light
MTZ® Personnel Panel

Software

Extensions for MTZ® Access

MTZ® AREA CHANGEOVER CONTROL

The MTZ® Area Changeover Control option is used to monitor which people are located in which areas of a building or facility. With an access booking, the programme checks whether the person is present in the area from which the next access booking may be performed. If this is not the case, the access is denied.

This option increases the security level in enterprises; responsible employees are informed about which and how many employees are located in which area..

The screenshot shows a software window titled 'Bereichsauswertung'. It contains two main tables. The first table, 'Bereich', lists areas with columns for 'Nr.', 'Bezeichnung', and 'Anzahl'. The second table, 'Bereichsgruppen', lists groups with columns for 'Nr.', 'Bezeichnung', and 'Anzahl'. Below these tables are two input fields for 'Anzahl Anwesende'. At the bottom, there is a large table with columns for 'Nr.', 'Karte', 'Nachname', 'Vorname', 'Gerät', 'Bereich', 'WT', 'Datum', 'Uhrzeit', and 'Modung'. This table displays a list of employees and their current location and time.

Fig. Evaluation of areas

MTZ® READER PANEL

The reader panel displays the current reader status. This lets you monitor in real-time which events (e.g., door release or access rejection) occur at which readers.

In contrast to the door panel, the reader panel displays all reader events and not just the events directly related to the door status.

The reader statuses are colour-coded; the meaning of the individual colours can be defined and is shown in the reader panel.

The screenshot shows a software window titled 'Lesertableau'. It displays a grid of reader statuses. The grid has columns for 'Haupteingang', 'Verwaltung', 'Verwaltung 2', 'Entwicklung', 'Kantine 1', 'Kantine 2', 'Raum 214', and 'Raum 215'. Each cell in the grid contains a color-coded status. Below the grid is a legend titled 'Legende' that defines the colors: green for 'Türstatus - Türfreigegeben', yellow for 'Türstatus - Türverriegelt', red for 'Abbruch - Validiert', orange for 'Abbruch - außerhalb', and blue for 'Türstatus - Türverriegelt'.

Fig. Reader Panel

▼ ORDER NUMBER

MB5362

MB5361

MTZ® Area Changeover Control

MTZ® Reader Panel

Software

Extensions for MTZ® Access

MTZ® DOOR PANEL

The MTZ® Door Panel displays the current door status. This lets you monitor in real-time whether access has been granted or denied for individual doors, or whether any doors have been left open.

The door statuses are colour-coded; the meaning of the individual colours can be defined and is shown in the door panel.

Depending on the door panel configuration, up to 32, 60 or 96 doors are displayed in one view. It is possible to define multiple door panels; their number depends on the customer licence.

It is possible to control the door via the door steering panel.

The following statuses are displayed:

DOOR UNLOCKED

A booking has been made with an authorised card, the door has been unlocked for a defined period of time, or the door is unlocked for permanent opening and can be opened at any time even without a booking being made.

DOOR OPEN, IRREGULARITY

The door is open and the time in which it should have been closed again (according to the door monitoring system) has been exceeded, or the door has been opened without a booking being made.

DOOR CLOSED

The door is closed and in normal state.

OFFLINE, DISPLAY NOT POSSIBLE

The status cannot currently be displayed, as there is no connection to the control unit.

All in all, the door panel is an ideal analysis tool, providing an overview of the door statuses and ensuring increased security.

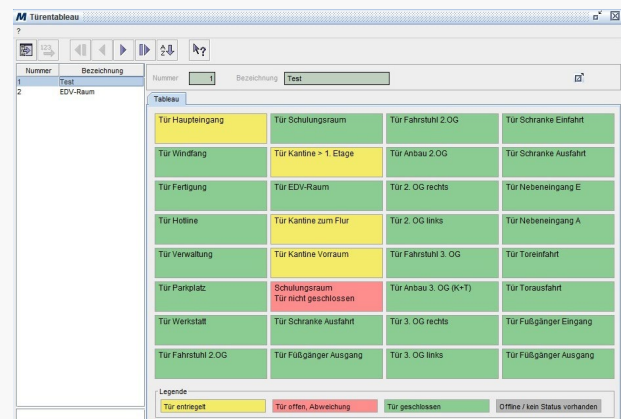


Fig. Configuration Door Panel

Software

Further Extensions

MTZ® BS DATA INTERFACE FOR REPORT GENERATION WITH JASPER

By means of the report generator Jasper developed by TYBCO users can create their own reports using the data available in the programme. These may include master data extracts or data evaluations. Multiple additional evaluation and special fields are available for the evaluations. The generated reports can be allocated to dialogues and be printed from these dialogues.

With the MTZ® BS Data Interface the reports generated in Jasper can be integrated into the MTZ® BS.

YOUR BENEFITS AT A GLANCE:

- Comfortable generation and preview of customer-specific reports by means of the modern user surface of the Jasper Studios
- Output possible in different formats, such as PDF, EXCEL, CSV
- This integration makes it possible to design the preceding dialogues in the MTZ® BS by means of parameters. Doing so, all usual MTZ® setting objects (such as date from until, etc.) can be integrated.
- Easy use of already existing MIDITEC-developed calculation functions for complex evaluations
- Integration of grafical and statistical representations for evaluations as well as barcodes for specific reports
- Use of own company logo for the reports
- Already generated reports can be used as template for new evaluations
- Reports can also be used for automatic printing in the MTZ®
- Processing even of large data volumes

Fig. Report generation in the MTZ® BS

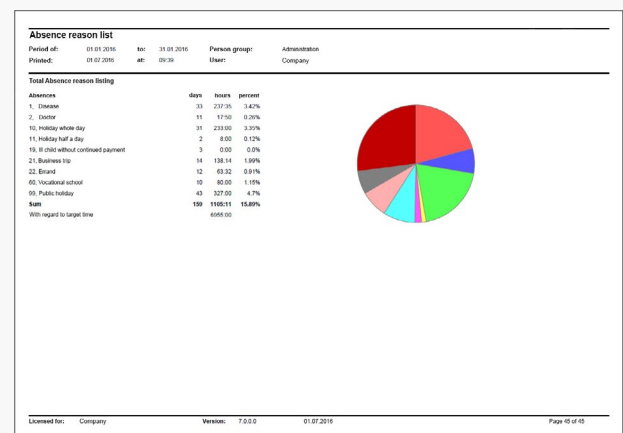


Fig. Employee profile report

MB6806 MTZ® BS Data Interface for report generation with Jasper

Software

Other Extensions

MTZ® ID CARD CREATION

With the MTZ® ID Card Creation module, ID cards can be designed and printed with the MTZ® Business Solution. Various card templates comprising a background picture, logo, a photo of the employee and selected fields from the employee's profile and can be created. The picture formats jpg and gif are supported. It is possible to import existing photos or to capture live images using an IP camera.

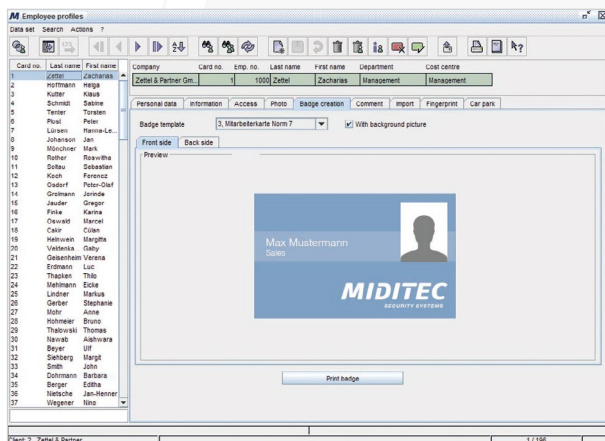


Fig. ID Card Creation Preview

CREATION OF

- Various card templates
- Visitor documents (only in Visitor module)

FUNCTIONS

- Size according to ISO or freely selectable
- Background picture
- Display of graphic or logo
- Placeholder for employee photo
- Placeholder for fields from employee profile
- Free text
- Templates for front and back

FONT FORMATS

- Font type
- Font size
- Font colour
- Italics, bold

RECOMMENDED PRINTERS



Reliable, robust and fast ID card printer for single-sided and double-sided top-quality marginless ID card printing; security watermark can be printed (if required, customized).

▼ CARD PRINTER

- | | |
|--------|---------------------------|
| MH5000 | Rio PRO, single-sided |
| MH5001 | Rio PRO Duo, double-sided |

▼ ID CARD CREATION

- | | |
|--------|-----------------------|
| MB5240 | MTZ® ID Card Creation |
|--------|-----------------------|

Software

Other Extensions

MTZ® UNIQUE ID NUMBERS

The security of an identification and time recording solution is the most important aspect for time recording and access control applications. For card administration the extension MTZ® Unique ID Numbers therefore accesses the unique numbers the manufacturer has stored on the cards.

▼ ORDER NUMBER

MB5245 MTZ® Unique ID Numbers
incl. key coder

When ordering MTZ® Unique ID Numbers all readers have to be ordered as unique number readers. For reorders of card readers, the option "Unique Number" should be selected.

All contactless RFID identification media such as transponder cards, RFID key rings and others are equipped with a transponder supplied by the manufacturer with a unique number. This unique number is unique worldwide and identifies the associated medium clearly.



Identification media with unique number



Casing similar

R950 Desktop Key Coder
(Programming of person and system cards;
login reader / declaration reader for
unique number usage)

Software

Payroll Interfaces

PAYROLL INTERFACES

MB5193	sdworx (formerly Accurat)	MB5143	KDV
MB5101	ADA-lohn	MB5122	KHK (Classic Line)
MB5140	Adata	MB5123	KIDICAP
MB5137	Addison TOPLOHN	MB5134	LEXWARE
MB5145	ADP TPO	MB5139	MICOS
MB5194	Agenda	MB5170	Navision
MB5102	AKDB-Lohn	MB5180	NOVALINE
MB5103	ALX-Comet	MB5124	P & I Loga
MB5197	B&P-Lohn	MB5126	PAISY P1 ¹
MB5159	BDE-ERP	MB5127	PAISY P1 + P3 ¹
MB5195	BMD	MB5135	Perimetre GTA
MB5171	Comet Flexzeit	MB5196	Protokoll 2 ²
MB5142	CSS	MB5138	S+P
MB5111	DATEV LODAS	MB5168	SAGE Bruttolohn
MB5112	DATEV Lohn und Gehalt	MB5182	SAGE Fehlzeiten
MB5172	DATEV PERDIS	MB5184	SALLY
MB5173	DATEV Personalmanagement Kalendarium	MB5163	SAP F+P
MB5113	Degussa	MB5164	SAP HR
MB5131	DLOHN	MB5165	SAP IT-Fehl
MB5149	EClient	MB5166	SAP MGB
MB5175	EFK	MB5167	SAP R3 HR
MB5176	EFK Semikolon	MB5146	SBS
MB5133	EXACT XXL	MB5189	SOFTIP
MB5148	Fidelis	MB5147	SP-Data
MB5114	Fix-Opal	MB5130	Standard ³
MB5141	HABEL	MB5129	Taylorix ADP
MB5119	Hansalog	MB5148	TDS Personal
MB5177	Hansalog V3 Bewegungsdaten	MB5191	TOPAS
MB5178	Hansalog V4 Fehlgründe	MB5144	VARIAL GUIDE
MB5132	IBM LOHN	MB5192	Visiondata
MB5136	IBM V02R04	MB5169	Voks

Other interfaces on request.

¹ State the format when placing the order (length of employee number and company code)

² Note: Interface includes subset MTZ4000 standard payroll interface

³ Note: Interface is not identical with MTZ4000 standard payroll interface

Software Interfaces

OPC UA INTERFACES

The OPC UA Interface (Unified Architecture) provides access to MIDITEC hardware using the standardised OPC protocol. On the one hand, the MTZ® OPC UA server supplies device status information for retrieval and further editing and on the other hand offers to control the devices using OPC.

The MTZ® OPC server supports the state-of-the-art OPC UA mechanisms, providing maximum security, robustness and performance.

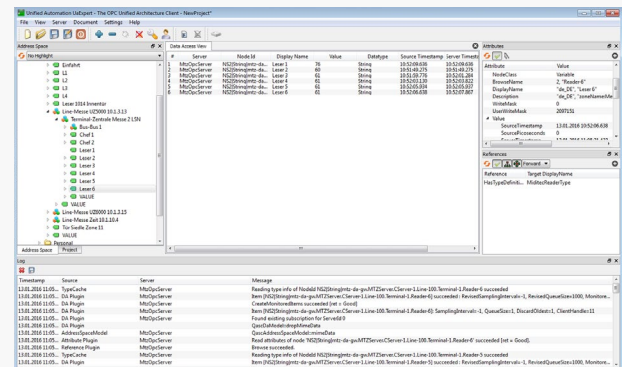


Fig. OPC Client

LDAP IMPORT INTERFACE (Lightweight Directory Access Protocol)

With the LDAP Import Interface, data can be imported from the directory services into the MTZ® Business Solution employee profiles. The fields to be matched can be interactively linked. The source data can be filtered so that, for example, only the employees of a specific department or company are imported. It is possible to protect target data against modification which allows the employees to be managed independently of LDAP. The data import can be triggered automatically (time-controlled)* or manually.

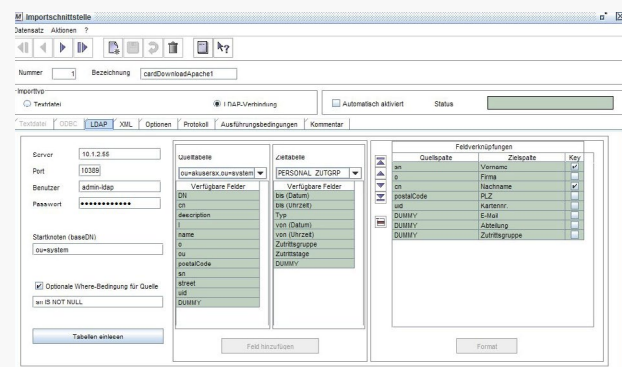


Fig. Configuration LDAP Import Interface

*The Import Interface Pro is required for the LDAP Import Interface.

IMPORT INTERFACE PRO

The Import Interface Pro allows you to import master data from foreign systems into MTZ® Business Solution once or at regular intervals. The format and the transfer type can be defined individually: Importing data in text format (ASCII files); CSV import type or fixed length, row-by-row import; interactive mapping of record types and master data fields.

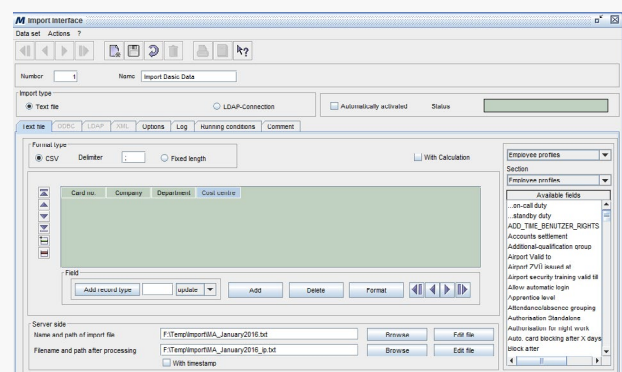


Fig. Configuration Import Interface Pro

▼ INTERFACES

- MB5350 OPC UA Interface for MTZ® Business Solution
- MB5348 OPC UA Converter-DA only in combination with MB5350
- MB5237 LDAP Import Interface
- MB5230 Import Interface Pro

Software Interfaces

SAP®-HR-PDC INTERFACE

SAP® Certified Integration with SAP Applications

Certified for HR-PDC-Time and Attendance
SAP® R/3® Enterprise 4.5, 4.6
SAP® R/3® Enterprise 4.7

With this software, MIDITEC takes HR PDC data (download) and transfers booking data to SAP® (upload).

This SAP® interface is an SAP® ECC 6.0 certified HR-PDC 4.5 integration interface for adopting employee data and entering booking data. The data are transferred by means of a so-called BAPI handler. The adopted employee master data are entered into the employee profile. After processing the download file, the program triggers the card authorisation procedure which authorises all cards that are specified in the employee profiles.

▼ ORDER NUMBER

MB6803	MTZ® BS SAP® for Time
MB6804	MTZ® BS SAP® for Access
MB6805	MTZ® BS SAP® for Time and Access

The interface is independent of the number of employees. The time and access employee numbers and any extensions that may be required must be ordered by means of the appropriate licences.

▼ CONSULTANT

MD5930	SAP® System Integrator External (SAP side)
MD5931	SAP® System Integrator MIDITEC (MTZ® Business Solution side)

The interface to SAP® is certified by SAP® AG. An SAP® basic consultant and a MIDITEC system consultant must be ordered as prerequisites for the installation of the SAP® application.

Software Interfaces

MTZ® ACCESS ELEVATOR INTERFACE KONE



The MTZ® Access Elevator Interface Kone allows a smooth data exchange between the MTZ® BS and an existing Kone elevator system.

With the MTZ® Access Elevator Interface Kone multiple Kone installations (Kone controllers) can be used with only one MTZ® installation. Thus, it is possible to control 2 separate Kone elevator installations of different skyscraping towers with one central MTZ® BS.

▼ ORDER NUMBER

MB5385

MTZ® Access Elevator Interface Kone,
Version 6.8, ELiv1.8, Hybrid DCS Basic

When ordering the MTZ® Access Elevator Interface Kone the number of group controllers must be specified.

MTZ® Access Elevator Interface Kone is certified by the KONE GmbH.



Hardware Online

Time Management | Access Management | Security



Terminals

Time Terminals | Access Terminals | PDA Terminals | POE Terminals

Hardware

Terminals – The Next Generation



TIME TERMINAL P6000

Online and offline use with contactless RFID reader technology; available as MIFARE reader Classic / DESFire EV1; LEGIC reader prime / advant; black glass; display; connection to server or PC via Ethernet; multifunctional touchscreen

FUNCTIONS: Clock-in, clock-out, off-site work, info, status reasons

► YOUR BENEFITS

- Online and offline application
- Integrated RFID reader: LEGIC advant, LEGIC prime or MIFARE Classic, MIFARE Desfire EV1
- Storage of up to 200,000 bookings in offline mode
- Administration of maximal 20,000 persons
- On request: possibility to upgrade the number of persons
- Software update via Ethernet
- Up to 10 info values per employee
- Data storage on SD card
- Real-time clock with backup battery
- Loudspeaker
- Online-balance display
- Authorisation check
- Plausibility check
- Automatic daylight-saving time adjustment
- System interface Ethernet 10/100/1000BaseT, plug connection RJ45
- ARM CPU, 1 GHz, 4 GByte, Linux
- Reading range up to 6 cm
- Touchscreen, 7" TFT display, 800 (R.G.B.) x 480 WVGA
- Contact for opening the terminal

▼ TERMINAL

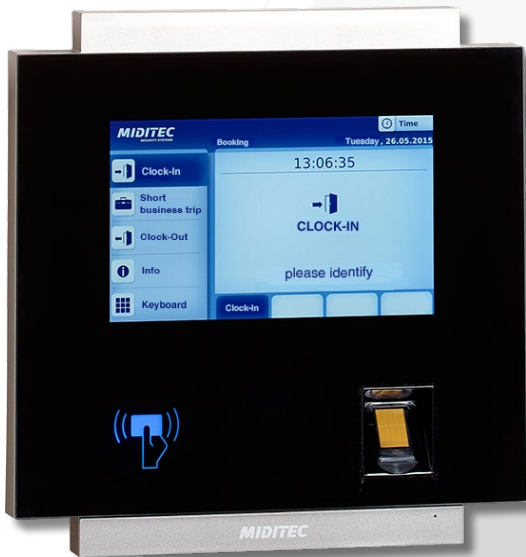
MH5100	P6000 MIFARE Classic / DESFire, 230 V
MH5101	P6000 LEGIC prime / advant, 230 V
MH5110	P6000 MIFARE Classic / DESFire, PoE
MH5111	P6000 LEGIC prime / advant, PoE

▼ ACCESSORIES AND OPTIONS

MH5130	UPS
MH5131	PoE Injektor IEEE802.3at
MH5132	WiFi Interface
MH5133	Camera Function

Hardware

Terminals – The Next Generation



TIME TERMINAL P6050 WITH FINGERPRINT

Fingerprint terminal with secure identification procedure. Fingerprints are not stored and cannot be reconstructed from the data. Online and offline use with contactless RFID reader technology; available as MIFARE reader Classic / DESFire EV1; LEGIC reader prime / advant; black glass; display; connection to server or PC via Ethernet; multifunctional touchscreen

FUNCTIONS: Clock-in, clock-out, off-site work, info, status reasons

► YOUR BENEFITS

- Online and offline application
- Integrated RFID reader: LEGIC prime, LEGIC advant or MIFARE Classic, MIFARE DESfire EV1
- Storage of up to 200,000 bookings in offline mode
- Administration of maximal 20,000 persons (with card)
- Storage of max. 9,500 fingerprints
- Max. 10 fingers per employee
- Identification
- Quality display when teaching/enrolling
- Software distribution of fingerprints to all devices
- On request: possibility to upgrade the number of persons
- Software update via Ethernet
- Data storage on SD card
- Real-time clock with backup battery
- Online-balance display
- Authorisation check / plausibility check
- Automatic daylight-saving time adjustment
- System interface Ethernet 10/100/1000BaseT
- Plug connection RJ45
- ARM CPU, 1 GHz, 4 GByte, Linux
- Reading range up to 6 cm
- Touchscreen, 7" TFT display, 800 (R.G.B.) x 480 WVGA
- Contact for opening the terminal

▼ TERMINAL

MH5120	P6050, Fingerprint identification, 230 V
MH5121	P6050, Fingerprint identification, PoE
MH5122	P6050, Fingerprint identification, MIFARE Classic / DESFire, 230 V
MH5123	P6050, Fingerprint identification, MIFARE Classic / DESFire, PoE
MH5124	P6050, Fingerprint identification, LEGIC prime / advant, 230 V
MH5125	P6050, Fingerprint identification, LEGIC prime / advant, PoE

▼ ACCESSORIES AND OPTIONS

MH5130	UPS
MH5131	PoE Injektor IEEE802.3at
MH5132	WiFi Interface
MH5133	Camera Function

Hardware

The P6020 Time and PDA Terminal



TIME AND PDA TERMINAL P6020

Online and offline use with contactless RFID reader technology; available as MIFARE reader Classic / DESFire EV1; LEGIC reader prime / advant; black glass; display; connection to server or PC via Ethernet; multifunctional touchscreen

FUNCTIONS: Clock-in, clock-out, off-site work, info, status reasons, PDA bookings

► YOUR BENEFITS

- Online and offline application
- Integrated RFID reader: LEGIC prime, LEGIC advant or MIFARE Classic, MIFARE DESFire EV1
- Storage of up to 200,000 bookings in offline mode
- Administration of maximal 20,000 persons (on request an extension of the number of persons is possible)
- Software update via Ethernet
- Up to 10 info values per person
- Coste centre and cost unit booking
- Start, interruption, stop and collective booking
- Input via touchscreen keypad and/or barcode reader
- Request of current times and orders
- Data storage on SD card
- Real-time clock with backup battery
- Loudspeaker
- Online-balance display
- Authorisation check / plausibility check
- Automatic daylight-saving time adjustment
- System interface Ethernet 10/100/1000BaseT
- Plug connection RJ45
- ARM CPU, 1 GHz, 4 GByte, Linux

- Reading range up to 6 cm
- Touchscreen, 7" TFT display, 800 (R.G.B.) x 480 WVGA
- Contact for opening the terminal

▼ TERMINAL

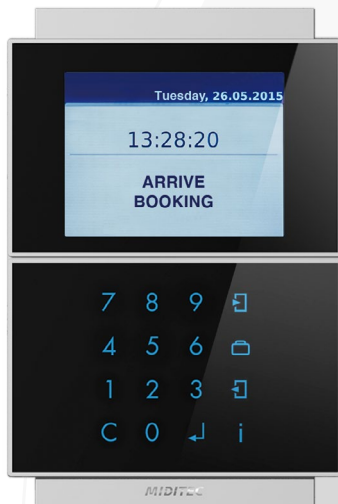
- | | |
|--------|---|
| MH5102 | P6020 Time and PDA Terminal, MIFARE Classic / DESFire, Ethernet |
| MH5103 | P6020 Time and PDA Terminal, LEGIC prime / advant, Ethernet |

▼ ACCESSORIES AND OPTIONS

- | | |
|--------|--------------------------|
| MH5130 | UPS |
| MH5131 | PoE Injektor IEEE802.3at |
| MH5132 | WiFi Interface |
| MH5133 | Camera Function |

Hardware

The new P700 Time Terminal



TIME TERMINAL P700

Terminal for time management with contactless RFID reader technology; 3.5" full-graphics TFT display; connection to server or PC via Ethernet; power supply via 230V; external power supply

FUNCTIONS: Clock-in, clock-out, off-site work, info, status reasons

► YOUR BENEFITS

- Online and offline application
- Contactless reader technology
- Storage of up to 2,000 bookings in offline mode
- In offline mode only customer code verification
- Up to 4 info values per employee
- Optical status indication by display
- Acoustic status indication provided by signal generator
- Free definition of keys and display texts
- 12 capacitive, blue-illuminated entry keys, 10 for free configuration on 4 levels each
- 4 capacitive, blue-illuminated function keys for free configuration on 4 levels each
- Data retention for several years
- Online-balance display
- Authorisation check and plausibility check, if the network connection to the MTZ BS is available
- Automatic daylight-saving time adjustment
- 3.5" TFT display
- Display 320 x 240 pixels
- Depending on the reading procedure up to 5 cm

▼ TERMINAL

MH5311	P700, MIFARE Classic / DESFire, Ethernet
MH5312	P700, LEGIC prime / advant, Ethernet

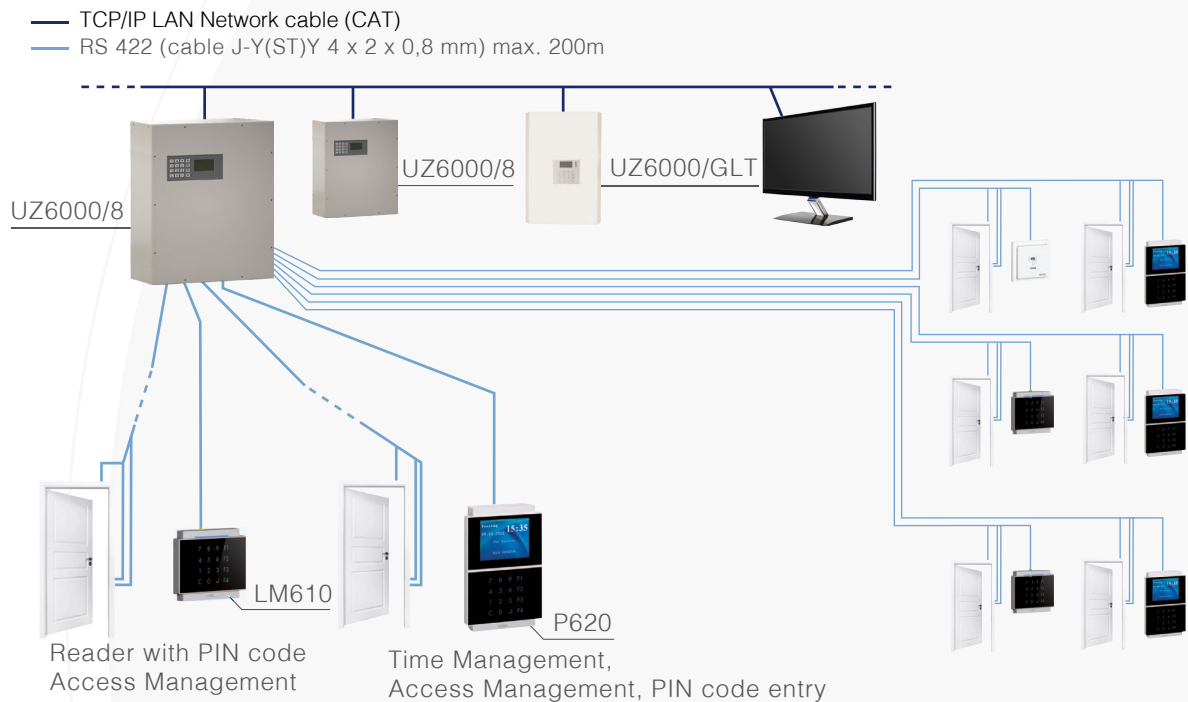


Star-Type Topology

Universal Control Units | Readers | Slave Terminals | Special Readers

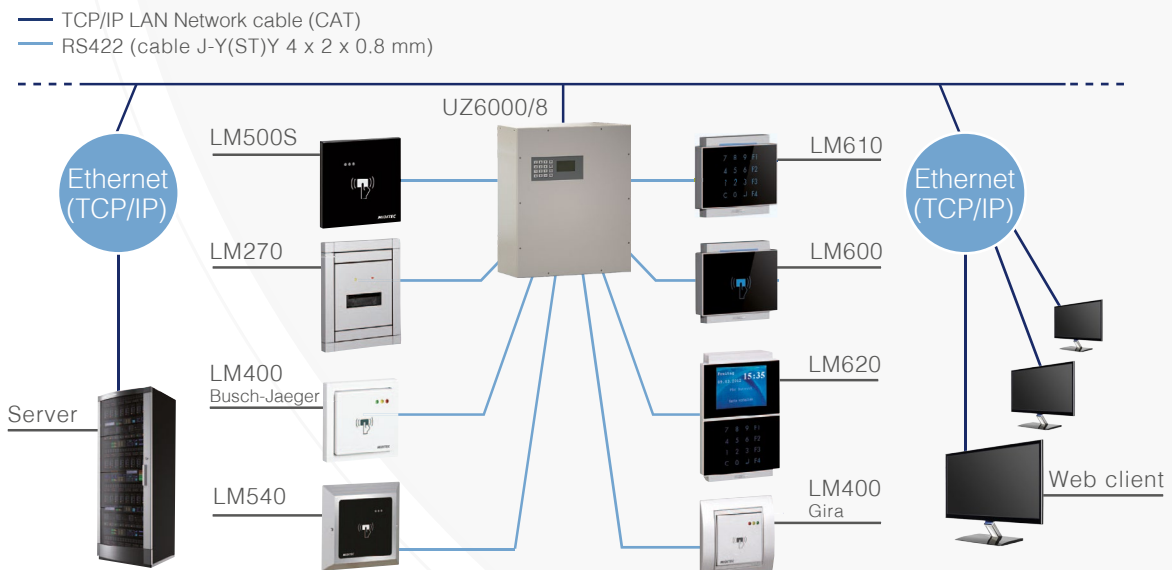
Hardware

Configuration Example: Time Management / Access Management



DOOR MONITORING / CONTROL

The distance from the control unit's transfer point to the reader/terminal, magnetic contact, electric door strike, motor lock, strike plate contact can be up to 1,500 m, if power is supplied via an external power supply. If power is supplied via the control unit, the maximum distance is 200 m.

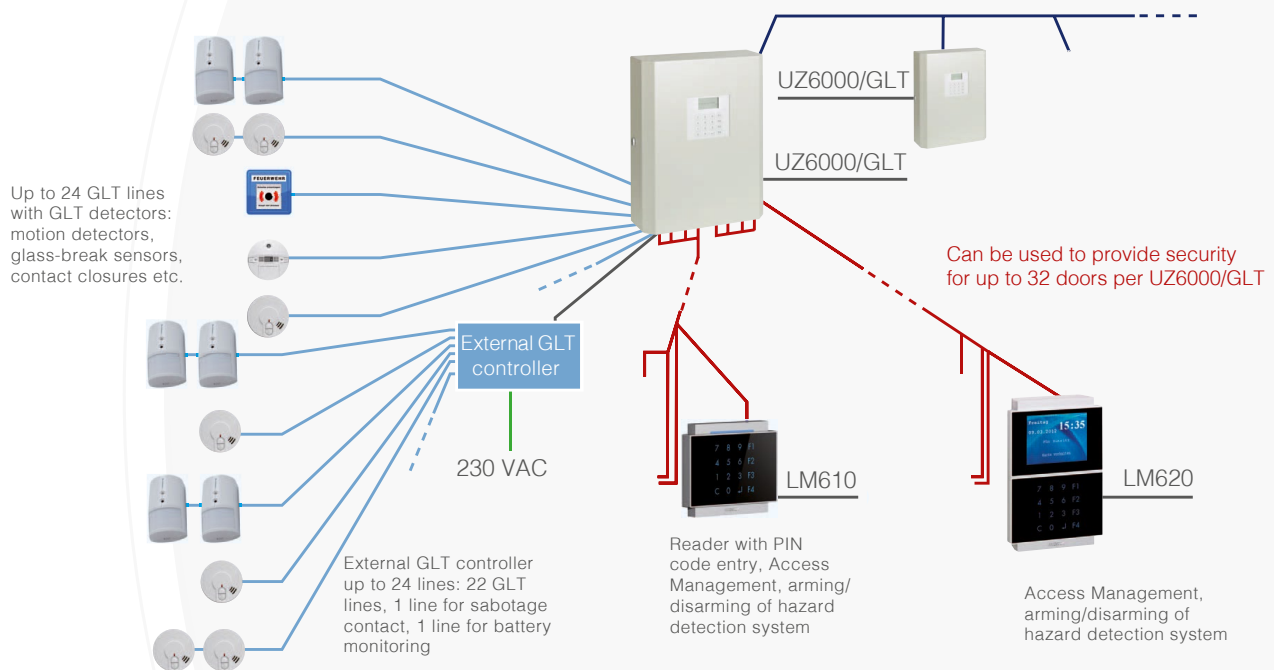


ACCESS

Hardware

Configuration Example: Access Management / Security

- TCP/IP LAN Network cable (CAT)
- RS485 (cable J-Y(ST)Y 4 x 2 x 0.8 mm)
- J-Y(ST)Y 4 x 2 x 0.8 mm or comparable
- RS485 Bus J-Y(ST)Y 4 x 2 x 0.8 mm max. 1.500m
- 230 VAC



ACCESS MANAGEMENT WITH UZ6000/GLT AND GLT DETECTORS

Hardware

Universal Control Units



UZ5000/2 UNIVERSAL CONTROL UNIT

Universal control unit with two RS422 interfaces for slave device connection; connection to server or PC via Ethernet/RS485 interface; service port for external service reader (software) for diagnosis/operation; plastic casing; not available in steel or 19" casing

FUNCTIONS: Time and access; door monitoring of up to 2 doors

► TIME MANAGEMENT

Bookings supported at the slave device:

- Clock-in, clock-out, off-site work, info
- All defined status reasons
- Shift bookings

► YOUR BENEFITS

- Management of up to 3,000 persons (optional up to 27,000)
- Storage of up to 7,700 events (optional up to 140,000)
- Data is kept for at least 2 months (lithium battery)
- Automatic recognition of connected slave devices and readers
- Power supply of the connected slave devices and electric door strikes (max. 250 mA) via the universal control unit up to 200 m when using a cable of type J-(ST)Y 4 x 2 x 0.8 mm512 KByte
- 512 KByte SRAM, can be extended (4 MB)

► ACCESS

- More than 100 definable alarms and events
- PIN code and threat code
- Online changeover
- Mantrap control

▼ UNIVERSAL CONTROL UNIT

MH4400 UZ5000/2, plastic casing
Ethernet (100 Mbit) / RS485 interface

▼ ACCESSORIES AND OPTIONS

MH4505 4 MB Memory Upgrade

MH4506 Uninterruptible power supply for UZ5000/2 (external)

MH4612 Serial connection lead for parameterising the ACS5000/16, UZ5000/2 and HAC5000/32 with integrated interface converter.

Hardware

Universal Control Units



UZ6000/4 MIDITEC UNIVERSAL CONTROL UNIT **UZ6000/8 MIDITEC UNIVERSAL CONTROL UNIT**

Universal control unit with four respectively eight RS422 interfaces for slave device connection; connection to server or PC via Ethernet/ RS485 interface; universal casing or 19" casing available

FUNCTIONS: Time and access, operation via keypad and LCD display, door monitoring of up to 4 doors or 8 doors

► TIME MANAGEMENT

Bookings supported at the slave device:

- Clock-in, clock-out, off-site work, info
- All defined status reasons
- Shift bookings

► ACCESS

- More than 100 definable alarms and events
- PIN code and threat code
- Online area changeover
- Mantrap control

► YOUR BENEFITS

- Management of up to 3,000 persons (optional up to 27,000)
- Storage of up to 7,700 events (optional up to 140,000)
- Data is kept for at least 2 months (lithium battery)
- Power supply of the connected slave devices and electric door strikes (max. 250 mA) via the universal control unit up to 200 m when using a cable of type J-(ST)Y 4 x 2 x 0.8 mm
- 512 KByte SRAM, can be extended (4 MB)
- Display of weekday, date, time, settings, status messages
- Automatic recognition of connected slave devices and readers
- Monitored inputs

▼ UZ6000/4

- MH9413 UZ6000/4, MIDITEC universal casing, Ethernet (100 Mbit) / RS485 interface
- MH9414 UZ6000/4, MIDITEC 19" casing, Ethernet (100 Mbit) / RS485 interface

▼ UZ6000/8

- MH9423 UZ6000/8, MIDITEC universal casing, Ethernet (100 Mbit) / RS485 interface
- MH9424 UZ6000/8, MIDITEC 19" casing, Ethernet (100 Mbit) / RS485 interface

Hardware

Control Units: Options

CASING OPTIONS



MIDITEC UNIVERSAL CASING

for UZ6000/4, UZ6000/8 and AZ6000/1

▼ ACCESSORIES AND OPTIONS

MH4505	4 MB Memory Upgrade
MH4512	Uninterruptible power supply internal
MH4507	Uninterruptible power supply external
MH4508	Extensions for 16 floors



MIDITEC 19" CASING

Slide-in unit for 19" rack

▼ ACCESSORIES AND OPTIONS

MH4505	4 MB Memory Upgrade
MH4512	Uninterruptible power supply internal
MH4507	Uninterruptible power supply external
MH4508	Extensions for 16 floors

Hardware

Universal Control Unit HDS



UZ6000/GLT UNIVERSAL CONTROL UNIT FOR HAZARD DETECTION SYSTEM GLT

Connection to server or PC via Ethernet / RS485 interface; connection to access devices and GLT components; steel casing; operation via keypad and LCD display

FUNCTIONS: Access and hazard detection technology; door monitoring of up to 8 doors

► ACCESS

- More than 100 definable alarms and events
- PIN code and threat code
- Online changeover control
- Mantrap control
- Logging of all events and states

► YOUR BENEFITS

- Management of up to 3,000 persons (optional up to 27,000)
- Storage of up to 7,700 events (optional up to 140,000)
- Data is kept for at least 2 months (lithium battery)
- Power supply of the connected slave devices and electric door strikes (max. 250 mA) via the universal control unit, up to 200 m when using a cable of type J-(ST)Y 4 x 2 x 0.8 mm
- Integrated UPS for max. 60 hours (depending on number of readers)
- 512 KByte SRAM, can be extended (4 MB)
- Display of weekday, date, time, settings, status messages
- Automatic recognition of connected slave devices and readers
- Incl. relay extension card with 16 outputs and 8 inputs

► SECURITY

- 24 GLT lines
- Connection of up to 8 external GLT controllers with 24 GLT lines each
- Arming of areas with card and PIN code
- Support of detection lines for fire, attack, burglary and disruption
- Connection of an automatic dialling unit (AWUG) as an option

▼ UNIVERSAL CONTROL UNIT

- | | |
|--------|---|
| MH9472 | UZ6000/GLT, steel casing, Ethernet (100 Mbit) / RS485 interface |
| MH9474 | UZ6000/GLT, 19" casing, Ethernet (100 Mbit) / RS485 interface |

▼ ACCESSORIES AND OPTIONS

- | | |
|--------|---|
| MH4505 | 4 MB Memory Upgrade |
| MH4533 | Automatic Dialling Modem (AWUG) only externally available |
| MH4526 | External GLT Controller incl. power supply
It is not possible to connect time management devices to these control units. |

Hardware

Elevator Universal Control Unit



AZ6000/1 MIDITEC ELEVATOR UNIVERSAL CONTROL UNIT

Elevator Universal Control Unit with two RS422 interfaces for slave device connection; connection to server or PC via Ethernet / RS485 interface, universal or 19" casing available; connection of up to 2 readers; control of up to 8 floors via relays; operation via keypad and LCD display

FUNCTIONS: Access

Only standard LMxxx reader without R/W or special functions can be connected to this control unit.

► YOUR BENEFITS

- Access management for one elevator for up to 8 floors, can be extended (16 floors)
- Management of up to 3,000 persons (optional up to 27,000)
- Storage of up to 7,700 events (optional up to 140,000)
- Data is kept for at least 2 months (lithium battery)
- Power supply of the connected slave devices and electric door strikes (max. 250 mA) via the universal control unit, up to 200 m when using a cable of type J-(ST)Y 4 x 2 x 0.8 mm
- 512 KByte SRAM, can be extended (4 MB)
- Display of weekday, date, time, settings, status messages
- Automatic recognition of connected slave devices and readers
- Monitored inputs

▼ ELEVATOR UNIVERSAL CONTROL UNIT

- | | |
|---------------|---|
| MH9433 | AZ6000/1, MIDITEC universal casing
Ethernet (100 Mbit) / RS485 interface |
| MH9434 | AZ6000/1, MIDITEC 19" casing,
Ethernet (100 Mbit) / RS485 interface |

Hardware

Elevator Universal Control Unit: Options

CASING OPTIONS



MIDITEC UNIVERSAL CASING

for UZ6000/4, UZ6000/8 and AZ6000/1

▼ ACCESSORIES AND OPTIONS

MH4505	4 MB Memory Upgrade
MH4512	Uninterruptible power supply internal
MH4507	Uninterruptible power supply external
MH4508	Extensions for 16 floors



MIDITEC 19" CASING

Slide-in unit for 19" rack

▼ ACCESSORIES AND OPTIONS

MH4505	4 MB Memory Upgrade
MH4512	Uninterruptible power supply internal
MH4507	Uninterruptible power supply external
MH4508	Extensions for 16 floors

Hardware

Control Units: Options

▼ ACCESSORIES AND OPTIONS

- | | |
|--------|--|
| MH4533 | AUTOMATIC DIALLING UNIT (AWUG)
FOR UZ6000/GLT
external |
| MH4526 | EXTERNAL GLT CONTROLLER
INCL. POWER SUPPLY
for UZ6000/GLT; external; 24 lines;
power supply integrated; UPS optional;
max. 8 unit GLT controllers per control unit |
| MH4532 | INTERFACE CONVERTER
RS422 4-wire to 2-wire
for operating 2-wire readers
*adapter only required for control unit |

Hardware

Glass Reader for Universal Control Units



LM3000 SKYLINE BRILLIANCE ACCESS READER

Contactless reader technology with RS422 interface for connection to a universal control unit; with contactless MIFARE reader; glass black; other colours on request; mounting in flush-mounted socket; power supply by universal control unit

► YOUR BENEFITS

- Contactless reader technology
- Online operation with universal control unit
- Optical status indication provided by multicolour LEDs
- Acoustic status indication by signal generator
- Power supply by universal control unit
- Reading range up to 5 cm

▼ ACCESS READER

MH5299 LM3000 Skyline Brilliance, MIFARE Classic

▼ ACCESSORIES AND OPTIONS

MH8772 Rack mount power supply unit 30 W

MH8773 Rack mount power supply unit 60 W

Hardware

Glass Reader for Universal Control Units



LM3500 SKYLINE BRILLIANCE ACCESS READER

Contactless reader technology with RS422 interface for connection to a universal control unit; with contactless MIFARE reader; glass black; other colours on request; mounting in flush-mounted socket; power supply by universal control unit

► YOUR BENEFITS

- Contactless reader technology
- Online operation with universal control unit
- Optical status indication provided by multicolour LEDs
- Acoustic status indication by signal generator
- Power supply by universal control unit
- Reading range up to 5 cm

▼ ACCESS READER

MH5300 LM3500 Skyline Brilliance, MIFARE Classic

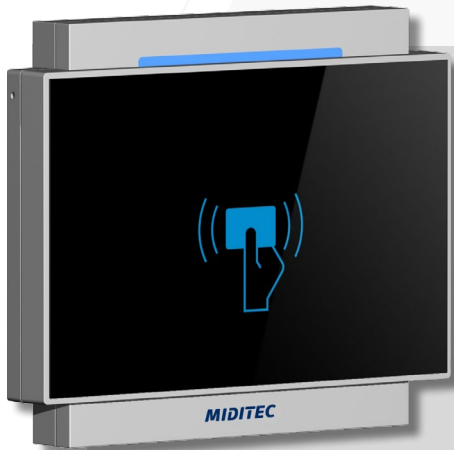
▼ ACCESSORIES AND OPTIONS

MH8772 Rack mount power supply unit 30 W

MH8773 Rack mount power supply unit 60 W

Hardware

Readers for Universal Control Units



LM600 ACCESS READER SURFACE-MOUNTED / FLUSH-MOUNTED LM605 FOR OUTDOOR

Contactless reader technology with RS422 interface for connection to a universal control unit; power supply by universal control unit

FUNCTIONS: Access

► YOUR BENEFITS

- Contactless reader technology
- Online operation with universal control units
- Power supply by universal control unit
- RS422 interface 4-wire
- Optical status indication provided by multicolour LED
- Acoustic status indication provided by signal generator
- Integrated sabotage contact for connection to universal control unit
- Reading range depending on reading procedure up to 5 cm
- Awarded with the iF product design award 2012 and the reddot design award 2012

▼ LM600 SURFACE-MOUNTED

MH9003	LM600, MIFARE Classic / DESFire, surface-mounted
MH9017	LM600, LEGIC prime / advant, surface-mounted
MB5383	Day ticket extension per reader (RW2)
MB5384	Decentralised authorisation assignment per reader (OW2)

▼ LM600 FLUSH-MOUNTED

MH9002	LM600, MIFARE Classic / DESFire, flush-mounted
MH9016	LM600, LEGIC prime / advant, flush-mounted
MB5383	Day ticket extension per reader (RW2)
MB5384	Decentralised authorisation assignment per reader (OW2)

▼ LM605 FOR OUTDOOR SURFACE-MOUNTED

MH9100	LM605, MIFARE Classic / DESFire, surface-mounted
MH9103	LM605, LEGIC prime / advant, surface-mounted
MB5383	Day ticket extension per reader (RW2)
MB5384	Decentralised authorisation assignment per reader (OW2)

For installations which have been supplied until 2014, please indicate the writing procedure of the card additionally to the reader type.

The following options are available: RW2, OW2
Based on this information, the reader settings are preset ex works by Miditec.

Example: **MH4205** LM500, MIFARE Classic / DESFire
Remark: RW2

If installations are updated to a newer software version, readers can be ordered according to the list in the product catalogue.

Hardware

Readers for Universal Control Units



LM610 ACCESS READER WITH PINCODE SURFACE-MOUNTED / FLUSH-MOUNTED LM615 FOR OUTDOOR SURFACE-MOUNTED

Contactless reader technology with RS422 interface for connection to universal control unit; power supply by universal control unit

FUNCTIONS: Access, PIN code entry, arming/disarming of hazard detection system (in combination with universal control unit)

► YOUR BENEFITS

- Contactless reader technology
- Online operation with universal control unit
- RS422 interface 4-wire
- Optical status indication provided by multicolour LED
- Acoustic status indication provided by signal generator
- Integrated sabotage contact for connection to universal control unit
- Reading range depending on reading procedure up to 5 cm
- 12 capacitive, blue-illuminated entry keys
- 4 capacitive, blue-illuminated function keys
- Arming/disarming of hazard detection system
- Awarded with the iF product design award 2012 and the reddot design award 2012

▼ LM610 SURFACE-MOUNTED

MH9007	LM610, MIFARE Classic / DESFire, surface-mounted
MH9021	LM610, LEGIC prime / advant, surface-mounted
MB5383	Day ticket extension per reader (RW2)
MB5384	Decentralised authorisation assignment per reader (OW2)

▼ LM610 FLUSH-MOUNTED

MH9006	LM610, MIFARE Classic / DESFire, flush-mounted
MH9020	LM610, LEGIC prime / advant, flush-mounted
MB5383	Day ticket extension per reader (RW2)
MB5384	Decentralised authorisation assignment per reader (OW2)

▼ LM615 FOR OUTDOOR SURFACE-MOUNTED

MH9105	LM615, MIFARE Classic / DESFire, surface-mounted
MH9108	LM615, LEGIC prime / advant, surface-mounted
MB5383	Day ticket extension per reader (RW2)
MB5384	Decentralised authorisation assignment per reader (OW2)

For installations which have been supplied until 2014, please indicate the writing procedure of the card additionally to the reader type.

The following options are available: RW2, OW2
Based on this information, the reader settings are preset ex works by Miditec.

Example: **MH4205** LM500, MIFARE Classic / DESFire
Remark: RW2

If installations are updated to a newer software version, readers can be ordered according to the list in the product catalogue.

Hardware

Readers for Universal Control Units



LM620 ACCESS READER WITH PINCODE AND DISPLAY SURFACE-MOUNTED / FLUSH-MOUNTED

Contactless reader technology with RS422 interface for connection to a universal control unit; power supply by universal control unit; 3,5" full-graphics TFT display

FUNCTIONS: Access, PIN code entry, arming/disarming of hazard detection system (in combination with universal control unit)

► YOUR BENEFITS

- Contactless reader technology
- Online operation with universal control unit
- Power supply by universal control unit, max. 80 m when using a cable with a cross section of 0.6 mm² and max. 140 m when using a cable with a cross section of 0.8 mm²
- RS422 interface 4-wire (2-wire on request)
- Optical status indication via display
- Acoustic status indication by signal generator
- Integrated sabotage contact for connection to universal control unit
- Reading range depending on reading procedure up to 5 cm
- 12 capacitive, blue-illuminated entry keys
- 4 capacitive, blue-illuminated function keys
- Arming/disarming of hazard detection system
- 3,5" full-graphics TFT display
- Display: 320 x 240 pixels
- Display: Weekday, date, time; up to 4 text lines
- Awarded with the iF product design award 2012 and the reddot design award 2012

▼ LM620 SURFACE-MOUNTED

MH9011	LM620, MIFARE Classic / DESFire, surface-mounted
MH9025	LM620, LEGIC prime / advant, surface-mounted
MB5383	Day ticket extension per reader (RW2)
MB5384	Decentralised authorisation assignment per reader (OW2)

▼ LM620 FLUSH-MOUNTED

MH9010	LM620, MIFARE Classic / DESFire, flush-mounted
MH9024	LM620, LEGIC prime / advant, flush-mounted
MB5383	Day ticket extension per reader (RW2)
MB5384	Decentralised authorisation assignment per reader (OW2)

For installations which have been supplied until 2014, please indicate the writing procedure of the card additionally to the reader type.

The following options are available: RW2, OW2
Based on this information, the reader settings are preset ex works by Miditec.

Example: **MH4205** LM500, MIFARE Classic / DESFire
Remark: RW2

If installations are updated to a newer software version, readers can be ordered according to the list in the product catalogue.

Hardware

Readers for Universal Control Units



LM500 ACCESS READER

Contactless reader technology with RS422 interface (4-wire) for connection to a universal control unit; surface-mounted; mounting in Siedle casing supported; power supply by universal control unit

FUNCTION: Access

► YOUR BENEFITS

- Contactless reader technology
- Online operation with universal control unit
- Optical status indication provided by 3 LEDs
- Acoustic status indication provided by signal generator
- Power supply by universal control unit
- Integrated sabotage contact for connection to universal control unit
- Reading range depending on reading procedure up to 5 cm

▼ LM500

MH4205	LM500, MIFARE Classic / DESFire
MH4225	LM500, LEGIC prime / advant
MB5383	Day ticket extension per reader (RW2)
MB5384	Decentralised authorisation assignment per reader (OW2)

For installations which have been supplied until 2014, please indicate the writing procedure of the card additionally to the reader type.

The following options are available: RW2, OW2

Based on this information, the reader settings are preset ex works by Miditec.

Example: **MH4205** LM500, MIFARE Classic / DESFire
Remark: RW2

If installations are updated to a newer software version, readers can be ordered according to the list in the product catalogue.

Hardware

Readers for Universal Control Units



LM500S ACCESS READER WITH SIEDLE COVER

Contactless reader technology with RS422 interface (4-wire) for connection to a universal control unit; mounting in Siedle casing; standard: Siedle 611, silver; power supply by universal control unit; delivery does not include Siedle frame

FUNCTION: Access

► YOUR BENEFITS

- Contactless reader technology
- Online operation with universal control unit
- Optical status indication provided by 3 LEDs
- Acoustic status indication provided by signal generator
- Power supply by universal control unit
- Reading range depending on reading procedure up to 5 cm

▼ LM500S

MH4212	LM500S, MIFARE Classic / DESFire
MH4229	LM500S, LEGIC prime / advant
MB5383	Day ticket extension per reader (RW2)
MB5384	Decentralised authorisation assignment per reader (OW2)

For installations which have been supplied until 2014, please indicate the writing procedure of the card additionally to the reader type.

The following options are available: RW2, OW2

Based on this information, the reader settings are preset ex works by Miditec.

Example: **MH4205** LM500, MIFARE Classic / DESFire
Remark: RW2

If installations are updated to a newer software version, readers can be ordered according to the list in the product catalogue.

Hardware

Readers for Universal Control Units



LM510 ACCESS READER WITH PINCODE

Contactless reader technology with RS422 interface for connection to a universal control unit; surface-mounting; mounting in Siedle casing supported; power supply by universal control unit

FUNCTIONS: Access; PIN code entry, arming/disarming of hazard detection system

► YOUR BENEFITS

- Contactless reader technology
- Online operation with universal control unit
- Optical status indication provided by 3 LEDs
- Acoustic status indication provided by signal generator
- Power supply by universal control unit
- Integrated sabotage contact for connection to universal control unit
- Reading range depending on reading procedure up to 5 cm
- 12 entry keys for PIN code entry
- 4 function keys
- Arming/disarming of hazard detection system

▼ LM510

MH4206	LM510, MIFARE Classic / DESFire
MH4227	LM510, LEGIC prime / advant
MB5383	Day ticket extension per reader (RW2)
MB5384	Decentralised authorisation assignment per reader (OW2)

For installations which have been supplied until 2014, please indicate the writing procedure of the card additionally to the reader type.

The following options are available: RW2, OW2

Based on this information, the reader settings are preset ex works by Miditec.

Example: **MH4205** LM500, MIFARE Classic / DESFire
Remark: RW2

If installations are updated to a newer software version, readers can be ordered according to the list in the product catalogue.

Hardware

Readers for Universal Control Units



LM510S ACCESS READER WITH PINCODE AND SIEDLE COVER

Contactless reader technology with RS422 interface for connection to a universal control unit; mounting in Siedle casing; standard: Siedle 611, silver; power supply by universal control unit; delivery does not include Siedle frame

FUNCTIONS: Access, PIN code entry, arming/disarming of hazard detection system

► YOUR BENEFITS

- Contactless reader technology
- Online operation with universal control unit
- Optical status indication provided by 3 LEDs
- Acoustic status indication provided by signal generator
- Power supply by universal control unit
- Reading range depending on reading procedure up to 5 cm
- 12 entry keys for PIN code entry
- 4 function keys
- Arming/disarming of hazard detection system

▼ LM510S

MH4213	LM510S, MIFARE Classic / DESFire
MH4234	LM510S, LEGIC prime / advant
MB5383	Day ticket extension per reader (RW2)
MB5384	Decentralised authorisation assignment per reader (OW2)

For installations which have been supplied until 2014, please indicate the writing procedure of the card additionally to the reader type.

The following options are available: RW2, OW2

Based on this information, the reader settings are preset ex works by Miditec.

Example: **MH4205** LM500, MIFARE Classic / DESFire
Remark: RW2

If installations are updated to a newer software version, readers can be ordered according to the list in the product catalogue.

Hardware

Reader for Universal Control Units



LM500B ACCESS READER WITH BEHNKE COVER

Contactless reader technology with RS422 interface for connection to a universal control unit; for Behnke casing; standard: Behnke silver; power supply by universal control unit; delivery does not include Behnke frame

FUNCTION: Access

► YOUR BENEFITS

- Contactless reader technology
- Online operation with universal control unit
- Optical status indication provided by 3 LEDs
- Acoustic status indication provided by signal generator
- Power supply by universal control unit
- Reading range depending on reading procedure up to 5 cm

▼ LM500B

MH5200	LM500B, MIFARE Classic / DESFire
MH5203	LM500B, LEGIC prime / advant
MB5383	Day ticket extension per reader (RW2)
MB5384	Decentralised authorisation assignment per reader (OW2)

For installations which have been supplied until 2014, please indicate the writing procedure of the card additionally to the reader type.

The following options are available: **RW2**, **OW2**

Based on this information, the reader settings are preset ex works by Miditec.

Example: **MH4205** LM500, MIFARE Classic / DESFire
Remark: RW2

If installations are updated to a newer software version, readers can be ordered according to the list in the product catalogue.

Hardware

Readers for Universal Control Units



GIRA COVER
Standard 55,
pure white matt



BERKER COVER
B7, polar white matt



BUSCH-JAEGER COVER
Future linear, studio white



JUNG COVER
LS990, alpine white

► YOUR BENEFITS

- Contactless reader technology
- Online operation with universal control unit
- Optical status indication provided by 3 LEDs
- Acoustic status indication provided by signal generator
- Power supply by universal control unit
- Integrated sabotage contact for connection to universal control unit
- Reading range depending on reading procedure up to 5 cm

LM400 ACCESS READER

Contactless reader technology with RS422 interface for connection to a universal control unit; flush-mounted; power supply by universal control unit

FUNCTION: Access

▼ LM400 GIRA

MH5210	LM400 Gira, MIFARE Classic/ DESFire
MH5213	LM400 Gira, LEGIC prime / advant
MB5383	Day ticket extension per reader (RW2)
MB5384	Decentralised authorisation assignment per reader (OW2)

▼ LM400 BERKER

MH5239	LM400 Berker, MIFARE Classic / DESFire
MH5243	LM400 Berker, LEGIC prime / advant
MB5383	Day ticket extension per reader (RW2)
MB5384	Decentralised authorisation assignment per reader (OW2)

▼ LM400 BUSCH-JAEGER

MH5205	LM400 Busch-Jaeger, MIFARE Classic / DESFire
MH5208	LM400 Busch-Jaeger, LEGIC prime / advant
MB5383	Day ticket extension per reader (RW2)
MB5384	Decentralised authorisation assignment per reader (OW2)

▼ LM400 JUNG

MH5215	LM400 Jung, MIFARE Classic / DESFire
MH5218	LM400 Jung, LEGIC prime / advant
MB5383	Day ticket extension per reader (RW2)
MB5384	Decentralised authorisation assignment per reader (OW2)

For installations which have been supplied until 2014, please indicate the writing procedure of the card additionally to the reader type.
The following options are available: RW2, OW2
Based on this information, the reader settings are preset ex works by Miditec.

Example: **MH4205** LM500, MIFARE Classic / DESFire
Remark: RW2

If installations are updated to a newer software version, readers can be ordered according to the list in the product catalogue.

Hardware

Readers for Universal Control Units



LM540 ACCESS READER VANDALISM PREVENTING

Contactless reader technology with RS422 interface for connection to a universal control unit; flush-mounted; front: highly compressed fibre glass cloth; frame: impact-resistant aluminium; cannot be damaged with a simple tool; power supply by universal control unit

FUNCTION: Access

► YOUR BENEFITS

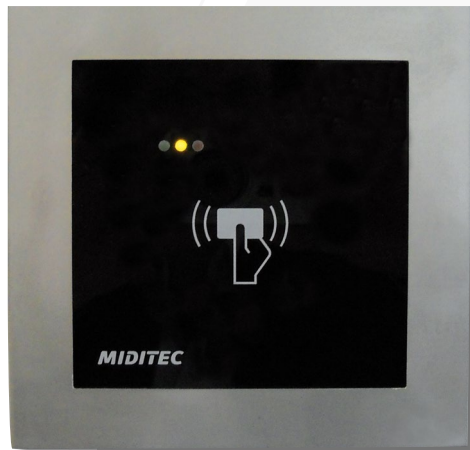
- Robust and impact-resistant casing
- No outside screw connection
- LEDs integrated in the front cover; invisible when not active
- 55 mm metallic flush-mounting socket included
- Contactless reader technology
- Online operation with universal control unit
- Optical status indication provided by 3 LEDs
- Acoustic status indication provided by signal generator
- Power supply by universal control unit
- Reading range depending on reading procedure up to 2 cm

▼ LM540

MH5291	LM540, MIFARE Classic
MH4238	LM540, LEGIC prime / advant

Hardware

Readers for Elevator Central Unit



LM500A ELEVATOR READER

Contactless reader technology with RS422 interface for connection to universal control unit; mountable in elevator tableau, power supply by elevator central unit

► YOUR BENEFITS

- Contactless reader technology
- Online operation with universal control unit
- Optical status indication provided by 3 LEDs
- Acoustic status indication provided by signal generator
- Power supply by universal control unit
- Reading range depending on reading procedure up to 5 cm

▼ LM500A

MH4209	LM500A, MIFARE Classic / DESFire
MH5298	LM500A, LEGIC prime / advant

Hardware

Slave Terminals for Universal Control Units



P620 SLAVE TERMINAL SURFACE-MOUNTED / FLUSH-MOUNTED

Contactless reader technology with RS422 interface for connection to a universal control unit; power supply by universal control unit; can be used for time management and/or access management (depending on software licence); 3,5" full-graphics TFT display

FUNCTIONS: Clock-in, clock-out, offsite-work, info, status reasons, shift bookings, access, arming/disarming of hazard detection system (in combination with universal control unit)

► YOUR BENEFITS

- Contactless reader technology
- Online operation with universal control unit
- Power supply by universal control unit, max. 80 m when using a cable with a cross section of 0.6 mm² and max. 140 m when using a cable with a cross section of 0.8 mm²
- RS422 interface 4-wire
- Optical status indication via display
- Acoustic status indication by signal generator
- Integrated sabotage contact for connection to universal control unit
- Reading range depending on reading procedure up to 5 cm
- 12 capacitive, blue-illuminated entry keys, 10 for free configuration on 4 levels each
- 4 capacitive, blue-illuminated function keys, for free configuration on 4 levels each
- Up to 4 information values per employee
- Online-balance display
- Bookings stored/managed in universal control unit
- 3,5" full-graphics TFT display
- Display: 320 x 240 pixels
- Display: weekday, date, time; up to 4 text lines
- Awarded with the iF product design award 2012 and the reddot design award 2012

▼ P620 SURFACE-MOUNTED

MH9015	P620, MIFARE Classic / DESFire, surface-mounted
MH9029	P620, LEGIC prime / advant, surface-mounted
MB5383	Day ticket extension per reader (RW2)
MB5384	Decentralised authorisation assignment per reader (OW2)

▼ P620 FLUSH-MOUNTED

MH9014	P620, MIFARE Classic / DESFire, flush-mounted
MH9028	P620, LEGIC prime / advant, flush-mounted
MB5383	Day ticket extension per reader (RW2)
MB5384	Decentralised authorisation assignment per reader (OW2)

For installations which have been supplied until 2014, please indicate the writing procedure of the card additionally to the reader type.
The following options are available: RW2, OW2
Based on this information, the reader settings are preset ex works by Miditec.

Example: MH4205 LM500, MIFARE Classic / DESFire
Remark: RW2

If installations are updated to a newer software version, readers can be ordered according to the list in the product catalogue.

Hardware

Special Readers for Universal Control Units



LM555 ACCESS READER MASTER-SLAVE

Contactless reader technology with RS422 interface incl. slave unit for connection to two different universal control units; two different parties are served via one master slave reader; surface-mounted; mounting into Siedle casing supported; power supply by external power supply

FUNCTION: Access

► YOUR BENEFITS

- Card switch programmed in master reader; when a booking is made, the card switch uses the customer code to determine the control unit to which the booking is to be sent
- LEDs controlled by master and slave reader
- Contactless reader technology
- Optical status indication provided by 3 LEDs
- Acoustic status indication by signal generator
- Power supply by external power supply
- Reading range depending on reading procedure up to 5 cm

▼ LM555

MH4280	LM555, MIFARE Classic / DESFire
MH4245	LM555, LEGIC prime / advant

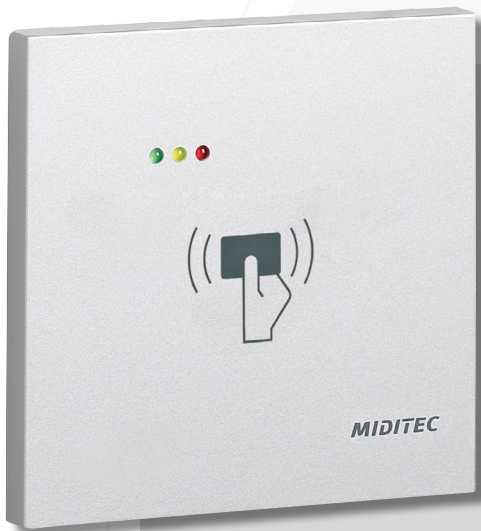
Make sure that sufficient space for the second reader board (dimensions: 110 x 36 x 30 mm) is available. Customer code must be stated when placing the order.

▼ ACCESSORIES AND OPTIONS

MH4285	Additional Slave Unit (Board)
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Hardware

Special Readers for Universal Control Units



LM555S ACCESS READER MASTER-SLAVE WITH SIEDLE COVER

Contactless reader technology with RS422 interface incl. slave unit for connection to two different universal control units; two different parties are served via one access master slave reader; mounted in Siedle casing; standard: Siedle 611, silver; power supply by external power supply

FUNCTION: Access

► YOUR BENEFITS

- Card switch programmed in master reader; when a booking is made, the card switch uses the customer code to determine the control unit to which the booking is to be sent
- LEDs controlled by master and slave reader
- Contactless reader technology
- Optical status indication provided by 3 LEDs
- Acoustic status indication by signal generator
- Power supply by external power supply
- Reading range up to 5 cm

▼ LM555S

MH5295	LM555S, MIFARE Classic / DESFire
MH5297	LM555S, LEGIC prime / advant

Make sure that sufficient space for the second reader board (dimensions: 110 x 36 x 30 mm) is available. Customer code must be stated when placing the order.

▼ ACCESSORIES AND OPTIONS

MH4285	Additional Slave Unit (Board)
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Hardware

PIN Code Unit



LM310 SKYLINE SURFACE-MOUNTED / FLUSH-MOUNTED LM315 SKYLINE FOR OUTDOOR SURFACE-MOUNTED

PIN Code Unit with RS422 interface for connection to universal control unit; power supply by universal control unit; surface-mounted or flush-mounted

FUNCTIONS: Access, PIN code entry with 4 figures (card number), no reading unit, access permission and verification by central unit

► YOUR BENEFITS

- Optical status indication provided by multicolour LED
- Acoustic status indication by signal generator
- Power supply by universal control unit
- 12 blue illuminated entry keys for PIN code entry

▼ LM310 SKYLINE SURFACE-MOUNTED

MH4283 LM310 Skyline PIN Code Unit, surface-mounted

▼ LM310 SKYLINE FLUSH-MOUNTED

MH4284 LM310 Skyline PIN Code Unit, flush-mounted

▼ LM315 SKYLINE FOR OUTDOOR

MH4341 LM310 Skyline PIN Code Unit, surface-mounted for outdoor use



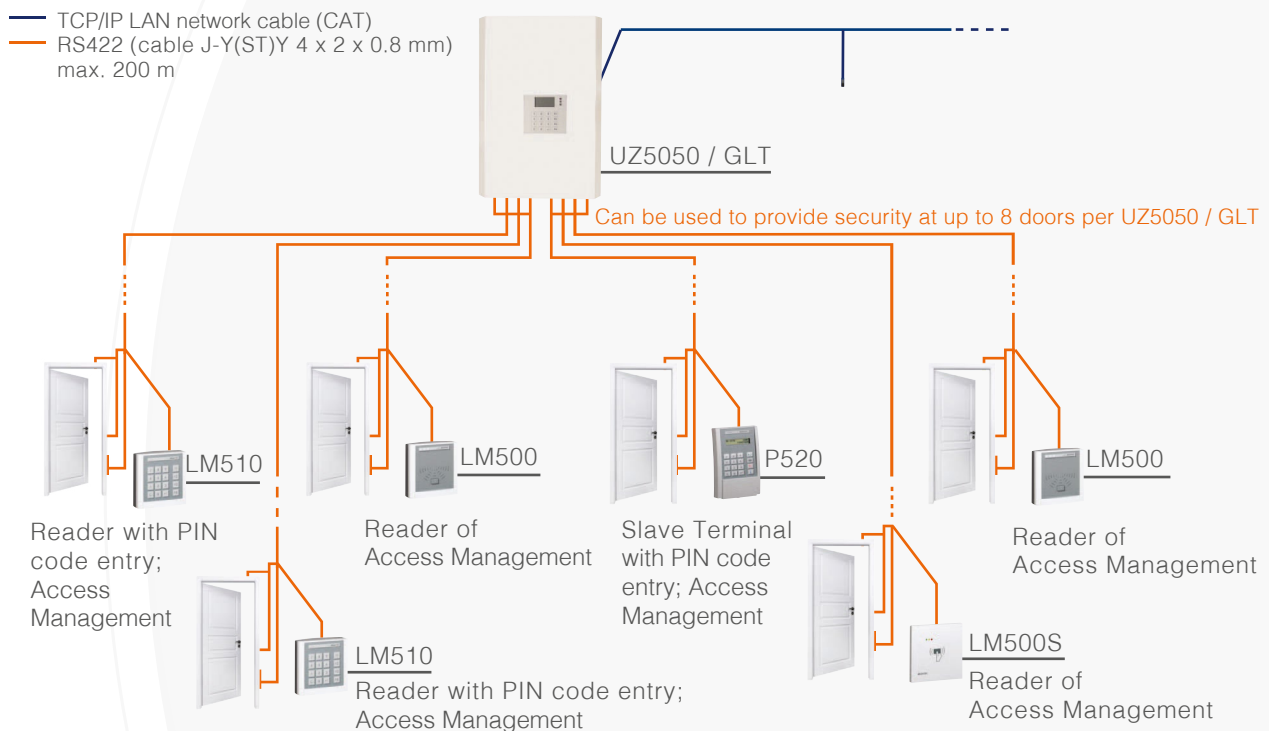
VdS Devices

Universal Control Units | Online Readers | Slave Terminals

Hardware

Configuration Example: Burglary Detection System (VdS)

ACCESS MANAGEMENT ACCORDING TO VdS CLASS C WITH UZ5080/GLT AND BURGLARY DETECTION SYSTEM



The distance from the control unit's transfer point to the reader/terminal, magnetic contact, electric door strike/motor lock or to the strike plate contact can be up to 1,500 m, if power is supplied via an external power supply.

If power is supplied via the control unit, the maximum distance is 200 m. VdS no. AK Z110003 for the UZ5050/GLT control units and LM100, LM110, LM500, LM500S, LM510, LM510S and P520 readers.

Hardware

Universal Control Units HDS VdS Certified



Fig. similar to actual device

UZ5050/GLT UNIVERSAL CONTROL UNIT FOR HAZARD DETECTION SYSTEM, VdS NO.: AK Z110003

VdS universal control unit with eight RS422 interfaces and system interface Ethernet / RS485; connection of access devices and GLT components; steel casing; operation via key-pad and LCD display

FUNCTIONS: Access management; door monitoring of up to 8 doors; VdS-Nr.: AK Z110003

► YOUR BENEFITS

- Management of up to 3,000 persons (optional up to 27,000)
- Storage of up to 7,700 events (optional up to 140,000) events
- Data is kept for at least 2 months (lithium battery)
- Power supply of connected slave devices and electric door strike (max. 250 mA) via universal control unit, up to 200 m when using a cable of type J-(ST)Y 4 x 2 x 0.8 mm
- Integrated UPS for max. 60 hours (depending on number of readers)
- 512 KByte SRAM, can be extended (up to 4 MB)
- Automatic recognition of connected readers
- Incl. relay extension card with 16 outputs and 8 inputs

► ACCESS

- 100 definable alarms and events
- PIN code and threat code
- Online area changeover
- Mantrap control
- Logging all events and states

► SECURITY

- 24 GLT lines
- Connection of up to 8 external GLT controllers with 24 GLT lines each
- Arming of areas with card and PIN code with 24 further GLT lines each
- Support of detection lines for fire, attack, burglary and disruption
- Connection of an automatic dialling unit (AWUG) as an option

▼ UZ5050/GLT

MH4473 UZ5050/GLT VdS Certified, steel casing, Ethernet (100 Mbit) / RS485 interface

▼ ACCESSORIES AND OPTIONS

MH4505 4 MB Memory Upgrade

MH4533 Automatic Dialling Modem AWUG (only extern)

It is not possible to connect time management devices to these control units.

Hardware

Readers for Universal Control Units HDS VdS Certified



LM500 VdS ACCESS READER, VdS NO.: AK Z110003

Contactless reader technology with RS422 interface for connection to a universal control unit; surface-mounted; mounting in Siedle casing supported; power supply by universal control unit

FUNCTION: Access

► YOUR BENEFITS

- Contactless reader technology
- Online operation with universal control unit
- Optical status indication provided by 3 LEDs
- Acoustic status indication provided by signal generator
- Power supply by universal control unit
- Integrated sabotage contact for connection to universal control unit
- Reading range up to 5 cm
- VdS certified as input device with UZ5050/GLT (VdS no.: AK Z110003)

▼ LM500 VdS

MH5280 LM500 VdS, MIFARE Classic

▼ LM510 VdS

MH5281 LM510 VdS, MIFARE Classic



LM510 VdS ACCESS READER WITH PIN CODE, VdS NO.: AK Z110003

Contactless reader technology with RS422 interface for connection to a universal control unit; surface-mounted; mounting in Siedle casing supported; power supply by universal control unit

FUNCTIONS: Access; PIN code entry, arming/disarming of hazard detection system

Hardware

Slave Terminals for Universal Control Units VdS Certified



P520 VdS SLAVE TERMINAL, VDS NO.: AK Z110003

Contactless reader technology with RS422 interface for connection to a universal control unit; power supply by universal control unit; can be used for time management and/or access management (depending on licence)

FUNCTIONS: Access, arming/disarming of hazard detection system

► YOUR BENEFITS

- Contactless reader technology
- Up to 4 information values per employee
- Online-balance display
- Digital time display: hours, minutes, weekday
- Bookings stored/managed in universal control unit or server
- Foil keypad with 16 keys, 14 configurable on 4 levels each
- Standard foil with numeric block, clock-in, clock-out, off-site work, info
- External power supply (by universal control unit)
- System interface RS422, 4-wire
- 2 x 20-digit illuminated display
- Lock for opening the device
- Reading range up to 7 cm
- VdS certified as input device with UZ5050/GLT (VdS no.: AK Z110003)

▼ P520 VdS

MH4629

P520 VdS, MIFARE Classic



Bus-Type Topology

Access Control Units | Online Reader | Door Controllers | Locking Systems

Hardware

Serial Control Unit ACS5000/16



ACS5000/16 SERIAL CONTROL UNIT

Serial access control unit with two RS485 interfaces (2-wire) for the connection of up to 2x8 SRx readers (bus system); connection to server or PC via Ethernet / RS485 interface; plastic casing; not available in steel casing; service port for external service readers (software) for diagnosis / operation

FUNCTIONS: Access; door monitoring of up to 16 doors

► YOUR BENEFITS

- Management of up to 2,000 persons (optional up to 18,000)
- Storage of up to 10,000 events (optional up 150,000)
- Data is kept for at least 2 months (lithium-battery)
- 512 KByte SRAM, can be extended (4 MB)
- Operation of SR or SRC reader in combination with door controller supported
- Automatic recognition of connected devices
- External 12 V operation supported
- External power supply of the readers required

► ACCESS

- 100 definable alarms and events
- Online area changeover
- Logging of all events and states

▼ SERIAL CONTROL UNIT

MH4462 ACS5000/16, 2-wire, plastic casing, Ethernet (100 Mbit) / RS485 interface

▼ ACCESSORIES AND OPTIONS

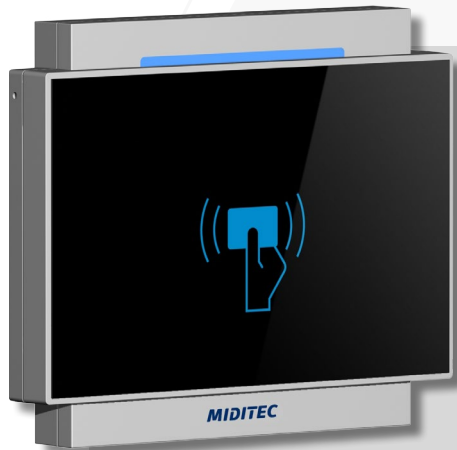
MH4505 4 MB Memory Upgrade

MH4612 Serial connection lead for parameterising the ACS5000/16 with integrated interface converter.

This position is required once for the commissioning of the control unit.

Hardware

Readers for Serial Control Unit



SR600 ACCESS READER SURFACE-MOUNTED / FLUSH-MOUNTED SR605 FOR OUTDOOR SURFACE-MOUNTED

Contactless reader technology with RS485 interface for connection to a serial control unit; power supply by external power supply

FUNCTION: Access

► YOUR BENEFITS

- Contactless reader technology
- Online operation with ACS5000/16
- Reading range depending on reading procedure up to 5 cm
- Power supply of reader and door strike by external power supply
- Acoustic status indication by signal generator
- Connection via terminal block
- Relay output for door strike
- Optical status indication provided by LED
- Awarded with the iF product design award 2012 and the reddot design award 2012

▼ SR600 SURFACE-MOUNTED

- | | |
|--------|--|
| MH9056 | SR600, MIFARE Classic / DESFire, surface-mounted |
| MH9062 | SR600, LEGIC prime / advant, surface-mounted |

▼ SR600 FLUSH-MOUNTED

- | | |
|--------|--|
| MH9057 | SR600, MIFARE Classic / DESFire, flush-mounted |
| MH9063 | SR600, LEGIC prime / advant, flush-mounted |

▼ SR605 FOR OUTDOOR

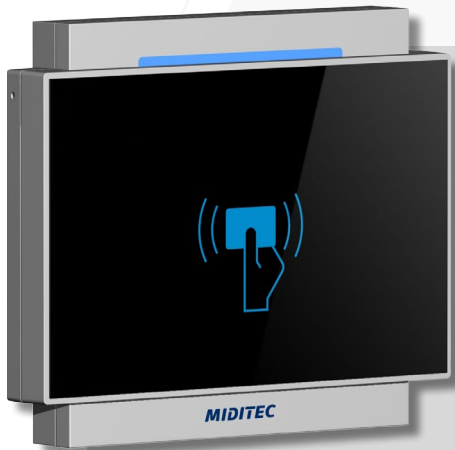
- | | |
|--------|--|
| MH9120 | SR605, MIFARE Classic / DESFire, surface-mounted |
| MH9121 | SR605, LEGIC prime / advant, surface-mounted |

▼ ACCESSORIES AND OPTIONS

- | | |
|--------|-----------------------------------|
| MH8772 | Rack mount power supply unit 30 W |
|--------|-----------------------------------|

Hardware

Readers for Serial Control Unit



SRC600 ACCESS READER SURFACE-MOUNTED / FLUSH-MOUNTED SRC605 FOR OUTDOOR SURFACE-MOUNTED

Contactless reader technology with RS485 interface for connection to a door controller; power supply via door controller by external power supply

FUNCTION: Access

Operation only in combination with an SDC15.

► YOUR BENEFITS

- Contactless reader technology
- Online operation with ACS5000/16 and door controller
- Power supply of reader, door controller and door strike by external power supply
- System interface RS485, 2-wire
- Optical status indication provided by multicolour LED
- Integrated sabotage contact for connection to the door controller
- Acoustic status indication by signal generator
- Reading range depending on reading procedure up to 5 cm
- Awarded with the iF product design award 2012 and the reddot design award 2012

▼ SRC600 SURFACE-MOUNTED

- | | |
|--------|---|
| MH9080 | SRC600, MIFARE Classic / DESFire, surface-mounted |
| MH9083 | SRC600, LEGIC prime / advant, surface-mounted |

▼ SRC600 FLUSH-MOUNTED

- | | |
|--------|---|
| MH9084 | SRC600, MIFARE Classic / DESFire, flush-mounted |
| MH9087 | SRC600, LEGIC prime / advant, flush-mounted |

▼ SRC605 FOR OUTDOOR

- | | |
|--------|---|
| MH9110 | SRC605, MIFARE Classic / DESFire, surface-mounted |
| MH9113 | SRC605, LEGIC prime / advant, surface-mounted |

Operation only in combination with an SDC15.

▼ ACCESSORIES AND OPTIONS

- | | |
|--------|-----------------------------------|
| MH4381 | SDC15 Door Controller |
| MH8772 | Rack mount power supply unit 30 W |

Hardware

Readers for Serial Control Unit



SR610 ACCESS READER SURFACE-MOUNTED / FLUSH-MOUNTED SR615 FOR OUTDOOR SURFACE-MOUNTED

Contactless reader technology with RS485 interface (2-wire) for connection to a serial control unit; power supply by external power supply

FUNCTIONS: Access, PIN code entry

► YOUR BENEFITS

- Contactless reader technology
- Online operation with ACS5000/16
- Power supply of reader and door strike by external power supply
- System interface RS485, 2-wire
- Connection via terminal block
- Relay output for door strike
- Acoustic status indication by signal generator
- Optical status indication provided by LED
- Keypad with 16 capacitive, blue-illuminated digits and function keys
- Reading range depending on reading procedure up to 5 cm
- Awarded with the iF product design award 2012 and the reddot design award 2012

▼ SR610 SURFACE-MOUNTED

- | | |
|--------|--|
| MH9066 | SR610, MIFARE Classic / DESFire, surface-mounted |
| MH9072 | SR610, LEGIC prime / advant, surface-mounted |

▼ SR610 FLUSH-MOUNTED

- | | |
|--------|--|
| MH9067 | SR610, MIFARE Classic / DESFire, flush-mounted |
| MH9073 | SR610, LEGIC prime / advant, flush-mounted |

▼ SR615 FOR OUTDOOR

- | | |
|--------|--|
| MH9140 | SR615, MIFARE Classic / DESFire, surface-mounted |
| MH9141 | SR615, LEGIC prime / advant, surface-mounted |

▼ ACCESSORIES AND OPTIONS

- | | |
|--------|-----------------------------------|
| MH8772 | Rack mount power supply unit 30 W |
|--------|-----------------------------------|

Hardware

Readers for Serial Control Unit



SRC610 ACCESS READER SURFACE-MOUNTED / FLUSH-MOUNTED SRC615 FOR OUTDOOR SURFACE-MOUNTED

Contactless reader technology with RS485 interface (2-wire) for connection to a door controller; power supply via door controller by external power supply

FUNCTIONS: Access, PIN code entry

Operation only in combination with an SDC15.

► YOUR BENEFITS

- Contactless reader technology
- Online operation with ACS5000/16 and door controller
- Power supply of reader, door controller and door strike by external power supply
- System interface RS485, 2-wire
- Optical status indication provided by multicolour LED
- Integrated sabotage contact for connection to the door controller
- Acoustic status indication by signal generator
- Keypad with 16 capacitive, blue-illuminated digits and function keys
- Reading range depending on reading procedure up to 5 cm
- Awarded with the iF product design award 2012 and the reddot design award 2012

▼ SRC610 SURFACE-MOUNTED

- | | |
|--------|---|
| MH9088 | SRC610, MIFARE Classic / DESFire, surface-mounted |
| MH9091 | SRC610, LEGIC prime / advant, surface-mounted |

▼ SRC610 FLUSH-MOUNTED

- | | |
|--------|---|
| MH9092 | SRC610, MIFARE Classic / DESFire, flush-mounted |
| MH9095 | SRC610, LEGIC prime / advant, flush-mounted |

▼ SRC615 FOR OUTDOOR

- | | |
|--------|---|
| MH9114 | SRC615, MIFARE Classic / DESFire, surface-mounted |
| MH9117 | SRC615, LEGIC prime / advant, surface-mounted |

Operation only in combination with an SDC15.

▼ ACCESSORIES AND OPTIONS

- | | |
|--------|-----------------------------------|
| MH4381 | SDC15 Door Controller |
| MH8772 | Rack mount power supply unit 30 W |

Hardware

Readers for Serial Control Unit



SR500 ACCESS READER

Contactless reader technology with RS485 interface (2-wire) for connection to a serial control unit; mounting in Siedle frame supported; power supply by external power supply

FUNCTION: Access

► YOUR BENEFITS

- Contactless reader technology
- Online operation with ACS5000/16
- Power supply of reader and door strike by external power supply
- System interface RS485, 2-wire
- Optical status indication provided by 3 LEDs
- Acoustic status indication by signal generator
- Reading range depending on reading procedure up to 5 cm

▼ SR500

MH4700	SR500, MIFARE Classic / DESFire
MH4702	SR500, LEGIC prime / advant

▼ ACCESSORIES AND OPTIONS

MH8772	Rack mount power supply unit 30 W
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Hardware

Readers for Serial Control Unit



SRC500 ACCESS READER

Contactless reader technology with RS485 interface (2-wire) for connection to a door controller; mounting in Siedle frame supported; power supply via door controller by external power supply

FUNCTION: Access

Operation only in combination with an SDC15.

► **YOUR BENEFITS**

- Contactless reader technology
- Online operation with ACS5000/16 and door controller
- Optical status indication provided by 3 LEDs
- Acoustic status indication by signal generator
- Power supply of reader, door controller and door strike by external power supply
- Reading range up to 5 cm

▼ **SRC500**

MH5245	SRC500, MIFARE Classic / DESFire
MH5248	SRC500, LEGIC prime / advant

Operation only in combination with an SDC15.

▼ **ACCESSORIES AND OPTIONS**

MH4381	SDC15 Door Controller
MH8772	Rack mount power supply unit 30 W

Hardware

Readers for Serial Control Unit



SR500S ACCESS READER WITH SIEDLE COVER

Contactless reader technology with RS485 interface (2-wire) for connection to a serial control unit; standard: Siedle 611, silver; power supply by external power supply; Siedle frame not included in delivery

FUNCTION: Access

► YOUR BENEFITS

- Contactless reader technology
- Online operation with ACS5000/16
- Optical status indication provided by 3 LEDs
- Acoustic status indication by signal generator
- Power supply of reader and door strike by external power supply
- Reading range depending on reading procedure up to 5 cm

▼ SR500S

MH4954	SR500S, MIFARE Classic / DESFire
MH4956	SR500S, LEGIC prime / advant

For other colour options, see the section „Accessories“.

▼ ACCESSORIES AND OPTIONS

MH8772	Rack mount power supply unit 30 W
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Hardware

Readers for Serial Control Unit



SRC500S ACCESS READER WITH SIEDLE COVER

Contactless reader technology with RS485 interface (2-wire) for connection to a door controller, mounting in Siedle casing; standard: Siedle 611, silver; power supply via door controller by external power supply; Siedle frame not included in delivery

FUNCTION: Access

Operation only in combination with an SDC15.

► YOUR BENEFITS

- Contactless reader technology
- Online operation with ACS5000/16 and door controller
- Optical status indication provided by 3 LEDs
- Acoustic status indication by signal generator
- Power supply of reader, door controller and door strike by external power supply
- Reading range depending on reading procedure up to 5 cm

▼ SRC500S

MH5253	SRC500S, MIFARE Classic / DESFire
MH5256	SRC500S, LEGIC prime / advant

Operation only in combination with an SDC15.

For other colour options, see the section „Accessories“.

▼ ACCESSORIES AND OPTIONS

MH4381	SDC15 Door Controller
MH8772	Rack mount power supply unit 30 W

Hardware

Readers for Serial Control Unit



SR510 ACCESS READER WITH PIN CODE

Contactless reader technology with RS485 interface (2-wire) for connection to a serial control unit; mounting in Siedle frame supported; power supply via door controller by external power supply

FUNCTIONS: Access, PIN code entry

► YOUR BENEFITS

- Contactless reader technology
- Online operation with ACS5000/16
- Power supply of reader and door strike by external power supply
- System interface RS485, 2-wire
- Optical status indication provided by 3 LEDs
- Acoustic status indication by signal generator
- 12 entry keys for PIN code entry
- 4 function keys
- Reading range depending on reading procedure up to 5 cm

▼ SR510

MH4704	SR510, MIFARE Classic / DESFire
MH4706	SR510, LEGIC prime / advant

For other colour options, see the section „Accessories“.

▼ ACCESSORIES AND OPTIONS

MH8772	Rack mount power supply unit 30 W
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Hardware

Readers for Serial Control Unit



SRC510 ACCESS READER WITH PIN CODE

Contactless reader technology with RS485 interface (2-wire) for connection to a door controller; mounting in Siedle frame supported; power supply via door controller by external power supply

FUNCTIONS: Access, PIN code entry

Operation only in combination with an SDC15.

► **YOUR BENEFITS**

- Contactless reader technology
- Online operation with ACS5000/16 and door controller
- Optical status indication provided by 3 LEDs
- Acoustic status indication by signal generator
- 12 entry keys for PIN code entry
- Power supply of reader, door controller and door strike by external power supply
- Reading range depending on reading procedure up to 5 cm

▼ **SRC510**

- | | |
|--------|----------------------------------|
| MH5249 | SRC510, MIFARE Classic / DESFire |
| MH5252 | SRC510, LEGIC prime / advant |

Operation only in combination with an SDC15.

For other colour options, see the section „Accessories“.

▼ **ACCESSORIES AND OPTIONS**

- | | |
|--------|-----------------------------------|
| MH4381 | SDC15 Door Controller |
| MH8772 | Rack mount power supply unit 30 W |

Hardware

Readers for Serial Control Unit



SR510S ACCESS READER WITH PINCODE SIEDLE COVER

Contactless reader technology with RS485 interface (2-wire) for connection to serial control unit; mounting in Siedle casing; standard: Siedle 611, silver; power supply by external power supply; Siedle frame not included in delivery

FUNCTIONS: Access, PIN code entry

► YOUR BENEFITS

- Contactless reader technology
- Online operation with ACS5000/16
- Power supply of reader and door strike by external power supply
- System interface RS485, 2-wire
- Optical status indication provided by 3 LEDs
- Acoustic status indication by signal generator
- 12 entry keys for PIN code entry
- Reading range depending on reading procedure up to 5 cm

▼ SR510S

MH4970	SR510S, MIFARE Classic / DESFire
MH4972	SR510S, LEGIC prime / advant

For other colour options, see the section „Accessories“.

▼ ACCESSORIES AND OPTIONS

MH8772	Rack mount power supply unit 30 W
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Hardware

Readers for Serial Control Unit



SRC510S ACCESS READER WITH PINCODE SIEDLE COVER

Contactless reader technology with RS485 interface (2-wire) for connection to a door controller; mounting in Siedle casing; standard: Siedle 611, silver; power supply via door controller by external power supply; Siedle frame not included in delivery

FUNCTIONS: Access, PIN code entry

Operation only in combination with an SDC15.

► YOUR BENEFITS

- Contactless reader technology
- Online operation with ACS5000/16 and door controller
- Optical status indication provided by 3 LEDs
- Acoustic status indication by signal generator
- 12 entry keys for PIN code entry
- Power supply of reader, door controller and door strike by external power supply
- Reading range depending on reading procedure up to 5 cm

▼ SRC510S

MH5257	SRC510S, MIFARE Classic / DESFire
MH5260	SRC510S, LEGIC prime / advant

Operation only in combination with an SDC15.

For other colour options, see the section „Accessories“.

▼ ACCESSORIES AND OPTIONS

MH4381	SDC15 Door Controller
MH8772	Rack mount power supply unit 30 W

Hardware

Readers for Serial Control Unit



GIRA COVER
Standard 55,
pure white matt



BERKER COVER
B7, polar white matt



BUSCH-JAEGER COVER
Future linear, studio white



JUNG COVER
LS990, alpine white

► YOUR BENEFITS

- Contactless reader technology
- Online operation with ACS5000/16
- Power supply of reader and door strike by external power supply
- System interface RS485, 2-wire
- Optical status indication provided by 3 LEDs
- Acoustic status indication by signal generator
- Reading range depending on reading procedure up to 5 cm

SR400 ACCESS READER

Contactless reader technology with RS485 interface (2- wire) for connection to a serial control unit; power supply by external power supply

FUNCTION: Access

▼ SR400 GIRA

MH4435	SR400 Gira, MIFARE Classic / DESFire
MH4436	SR400 Gira, LEGIC prime / advant

▼ SR400 BERKER

MH4354	SR400 Berker, MIFARE Classic / DESFire
MH4358	SR400 Berker, LEGIC prime / advant

▼ SR400 BUSCH-JAEGER

MH4437	SR400 Busch-Jaeger, MIFARE Classic / DESFire
MH4438	SR400 Busch-Jaeger, LEGIC prime / advant

▼ SR400 JUNG

MH4433	SR400 Jung, MIFARE Classic / DESFire
MH4440	SR400 Jung, LEGIC prime / advant

▼ ACCESSORIES AND OPTIONS

MH8772	Rack mount power supply unit 30 W
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For other colour options, see the section „Accessories“.

Hardware

Readers for Serial Control Unit



GIRA COVER
Standard 55,
pure white matt



BERKER COVER
B7, polar white matt



BUSCH-JAEGER COVER
Future linear, studio white



JUNG COVER
LS990, alpine white

► YOUR BENEFITS

- Contactless reader technology
- Online operation with ACS5000/16 and door controller
- Optical status indication provided by 3 LEDs
- Acoustic status indication by signal generator
- Power supply of reader, door controller and door strike by external power supply
- Reading range depending on reading procedure up to 5 cm

SRC400 ACCESS READER

Contactless reader technology with RS485 interface (2- wire) for connection to a door controller; power supply via door controller by external power supply

FUNCTION: Access

Operation only in combination with an SDC15.

▼ SRC400 GIRA

MH5269	SRC400 Gira, MIFARE Classic / DESFire
MH5272	SRC400 Gira, LEGIC prime / advant

▼ SRC400 BERKER

MH5265	SRC400 Berker, MIFARE Classic / DESFire
MH5268	SRC400 Berker, LEGIC prime / advant

▼ SRC400 BUSCH-JAEGER

MH5261	SRC400 Busch-Jaeger, MIFARE Classic / DESFire
MH5264	SRC400 Busch-Jaeger, LEGIC prime / advant

▼ SRC400 JUNG

MH5273	SRC400 Jung, MIFARE Classic / DESFire
MH5276	SRC400 Jung, LEGIC prime / advant

▼ ACCESSORIES AND OPTIONS

MH4381	SDC15 Door Controller
MH8772	Rack mount power supply unit 30 W

Operation only in combination with an SDC15.

For other colour options, see the section „Accessories“.

Hardware

Door Controller for Serial Control Unit



SDC15 DOOR CONTROLLER

Door control module for all SRC readers; RS485 interface (2-wire) for connection to serial control unit; DIN rail-mounted; power supply of reader and door strike by external power supply

► YOUR BENEFITS

- Door control module for SRC reader
- RS485 interface (2-wire) for connection to ACS5000/16
- DIN rail-mounted
- Power supply of reader, door controller and door strike by external power supply
- 5 relay outputs
- 5 inputs via optocoupler

▼ DOOR CONTROLLER

MH4381 SDC15 Door Controller

▼ ACCESSORIES AND OPTIONS

MH8772 Rack mount power supply unit 30 W



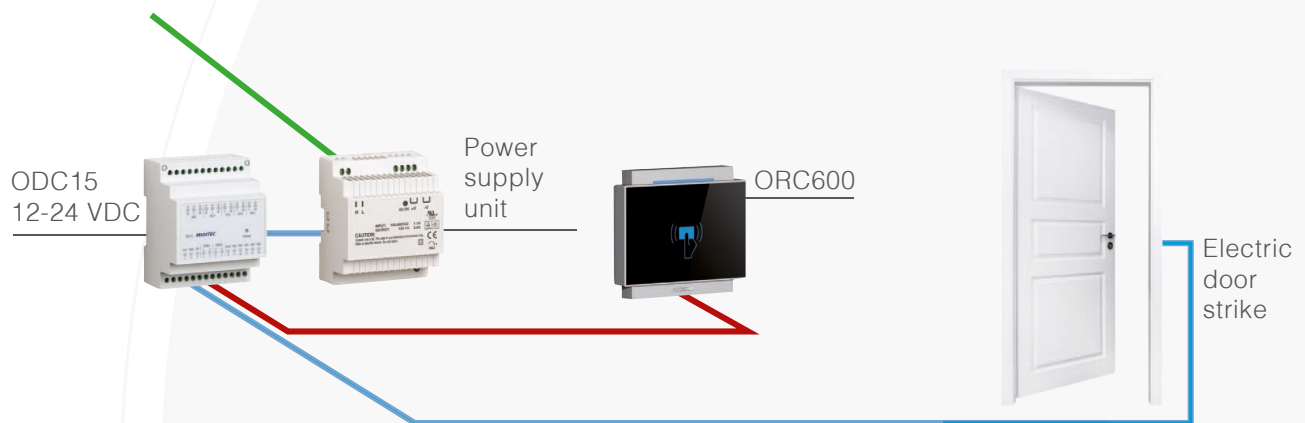
Hardware Offline

Offline Readers | Door Terminals

Hardware Offline

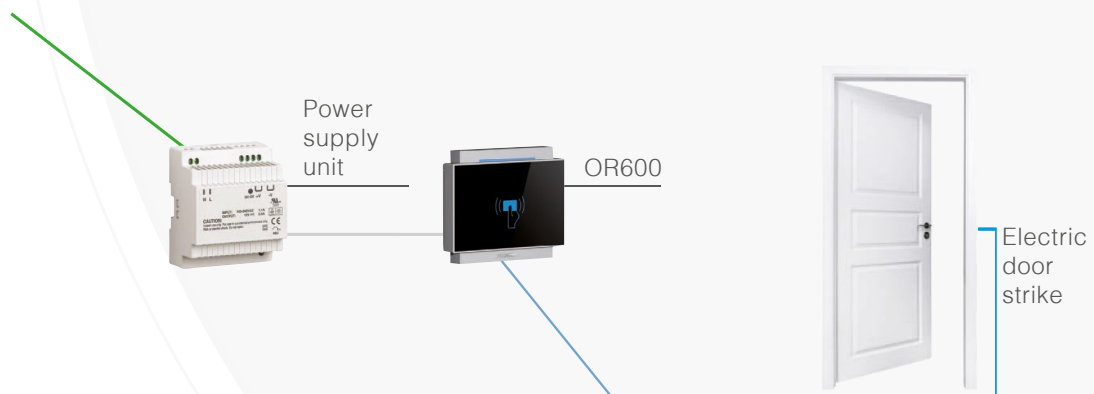
Configuration Example: Offline

- RS422 (cable J-Y(ST)Y 2 x 2 x 0.8 mm) max. 200 m
- 230 VAC
- Cable J-Y(ST)Y 2 x 2 x 0.8 mm



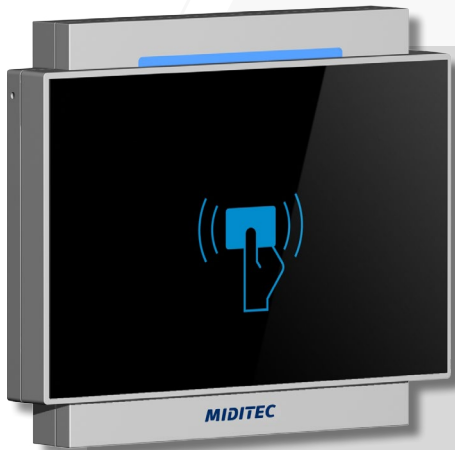
ACCESS MANAGEMENT OFFLINE WITH DOOR CONTROLLER

- 230 VAC
- Cable J-Y(ST)Y 2 x 2 x 0.8 mm



ACCESS MANAGEMENT OFFLINE WITHOUT DOOR CONTROLLER

Hardware Offline Reader Offline



ORC600 ACCESS READER SURFACE-MOUNTED / FLUSH-MOUNTED ORC605 FOR OUTDOOR

Contactless reader technology with RS485 interface (2-wire) for connection to a door controller; power supply via door controller by external power supply; only with MTZ® milock Locking System in combination with MTZ® Access

FUNCTION: Access

Operation only in combination with an ODC15.

► YOUR BENEFITS

- Contactless reader technology
- Reading range up to 5 cm
- Power supply of reader, door controller and door strike by external power supply
- System interface RS485, 2-wire
- Integrated sabotage contact for connection to the door controller
- Acoustic status indication by signal generator
- Optical status indication provided by multicolour LED
- Awarded with the iF product design award 2012 and the reddot design award 2012

▼ ACCESSORIES AND OPTIONS

MH4383	ODC15 Door Controller
MH8949	R600 Key Coder MIFARE Classic / DESFire
MH8772	Rack mount power supply unit 30 W

▼ ORC600 SURFACE-MOUNTED

MH9096	ORC600, MIFARE Classic, surface-mounted
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▼ ORC600 FLUSH-MOUNTED

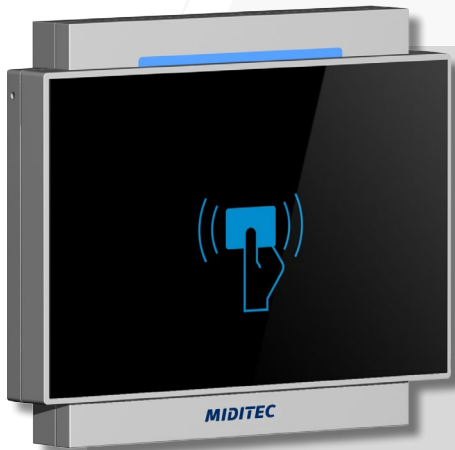
MH9097	ORC600, MIFARE Classic, flush-mounted
--------	--

▼ ORC605 FOR OUTDOOR

MH9118	ORC605, MIFARE Classic, surface-mounted
--------	--

Operation only in combination with an ODC15.

Hardware Offline Reader Offline



OR600 ACCESS READER SURFACE-MOUNTED / FLUSH-MOUNTED OR605 FOR OUTDOOR SURFACE-MOUNTED

Contactless reader technology; power supply
by external power supply; only with MTZ® milock
Locking System in combination with MTZ® Access

FUNCTION: Access

► YOUR BENEFITS

- Contactless reader technology
- Power supply of reader and door strike by external power supply
- Optical status indication provided by multicolour LED
- Acoustic status indication by signal generator
- Programming at the reader via system cards
- Flexible access rights via access groups
- Person-related single-door release
- Blocked days, public holiday regulation
- Blacklist for blocked cards
- Door release time freely selectable
- Automatically time-controlled releasing/closing
- Storage of latest 1,500 bookings
- Reading range up to 5 cm
- Awarded with the iF product design award 2012 and the reddot design award 2012

▼ OR600 SURFACE-MOUNTED

MH9078 OR600, MIFARE Classic, surface-mounted

▼ OR600 FLUSH-MOUNTED

MH9079 OR600, MIFARE Classic, flush-mounted

▼ OR605 FOR OUTDOOR

MH9122 OR605, MIFARE Classic, surface-mounted

▼ ACCESSORIES AND OPTIONS

MH8949 R600 Key Coder
MIFARE Classic / DESFire

MH8772 Rack mount power supply unit 30 W

Hardware Offline

Reader Offline



ORC500 ACCESS READER

Contactless reader technology with RS485 interface (2-wire) for connection to a door controller; mounting in Siedle frame supported; power supply via door controller by external power supply; only with MTZ® milock Locking System in combination with MTZ® Access

FUNCTION: Access

Operation only in combination with an ODC15.

► YOUR BENEFITS

- Contactless reader technology
- Optical status indication provided by 3 LEDs
- Acoustic status indication by signal generator
- Power supply of reader, door controller and door strike by external power supply
- Reading range up to 5 cm

▼ ORC500

MH5284 ORC500, MIFARE Classic

Operation only in combination with an ODC15.

▼ ACCESSORIES AND OPTIONS

MH4383 ODC15 Door Controller

MH8949 R600 Key Coder
MIFARE Classic / DESFire

MH8772 Rack mount power supply unit 30 W

Hardware Offline Reader Offline



OR500 ACCESS READER

Contactless reader technology; mounting in Siedle frame supported; power supply by external power supply; **only with** MTZ® milock Locking System in combination with MTZ® Access

FUNCTION: Access

► YOUR BENEFITS

- Contactless reader technology
- Optical status indication provided by 3 LEDs
- Acoustic status indication by signal generator
- Power supply of reader and door strike by external power supply
- Reading range up to 5 cm

▼ OR500

MH4378 OR500, MIFARE Classic

▼ ACCESSORIES AND OPTIONS

MH8949 R600 Key Coder
MIFARE Classic / DESFire

MH8772 Rack mount power supply unit 30 W

Hardware Offline Reader Offline



ORC500S ACCESS READER WITH SIEDLE COVER

Contactless reader technology with RS485 interface (2-wire) for connection to a door controller; mounting in Siedle frame supported; standard: Siedle 611, silver; power supply via door controller by external power supply; delivery does not include Siedle frame; **only with MTZ® milock Locking System in combination with MTZ® Access**

FUNCTION: Access

Operation only in combination with an ODC15.

► YOUR BENEFITS

- Contactless reader technology
- Optical status indication provided by 3 LEDs
- Acoustic status indication by signal generator
- Power supply of reader, door controller and door strike by external power supply
- Reading range up to 5 cm

▼ ORC500S

MH5285 ORC500S, MIFARE Classic

Operation only in combination with an ODC15.
For other colour options, see the section „Accessories“.

▼ ACCESSORIES AND OPTIONS

MH4383 ODC15 Door Controller
MH8949 R600 Key Coder
MIFARE Classic / DESFire
MH8772 Rack mount power supply unit 30 W

Hardware Offline

Reader Offline



OR500S ACCESS READER WITH SIEDLE COVER

Contactless reader technology; mounting in Siedle frame supported; standard: Siedle 611, silver; power supply by external power supply; delivery does not include Siedle frame; **only with MTZ® milock Locking System in combination with MTZ® Access**

FUNCTION: Access

► YOUR BENEFITS

- Contactless reader technology
- Optical status indication provided by 3 LEDs
- Acoustic status indication by signal generator
- Power supply of reader and door strike by external power supply
- Reading range up to 5 cm

▼ OR500S

MH4990 OR500S, MIFARE Classic

For other colour options, see the section „Accessories“.

▼ ACCESSORIES AND OPTIONS

MH8949 R600 Key Coder
MIFARE Classic / DESFire

MH8772 Rack mount power supply unit 30 W

Hardware Offline Reader Offline



GIRA COVER
Standard 55,
pure white matt



BERKER COVER
B7, polar white matt



BUSCH-JAEGER COVER
Future linear, studio white



JUNG COVER
LS990, alpine white

► YOUR BENEFITS

- Contactless reader technology
- Offline operation
- Optical status indication provided by 3 LEDs
- Acoustic status indication by signal generator
- Power supply of reader, door controller and door strike by external power supply
- Reading range up to 5 cm

▼ ORC400 GIRA

MH5288 ORC400 Gira, MIFARE Classic

▼ ORC400 BUSCH-JAEGER

MH5286 ORC400 Busch-Jaeger, MIFARE Classic

▼ ORC400 BERKER

MH5287 ORC400 Berker, MIFARE Classic

▼ ORC400 JUNG

MH5289 ORC400 Jung, MIFARE Classic

Operation only in combination with an ODC15.
For other colour options, see the section „Accessories“.

ORC400 ACCESS READER

Contactless reader technology with RS485 interface (2-wire) for connection to a door controller; flush-mounted; power supply via door controller by external power supply; **only with MTZ® milock Locking System in combination with MTZ® Access**

FUNCTION: Access

Operation only in combination with an ODC15.

▼ ACCESSORIES AND OPTIONS

MH4383 ODC15 Door Controller
MH8949 R600 Key Coder
MIFARE Classic / DESFire
MH8772 Rack mount power supply unit 30 W

Hardware Offline Reader Offline



GIRA COVER
Standard 55,
pure white matt



BERKER COVER
B7, polar white matt



BUSCH-JAEGER COVER
Future linear, studio white



JUNG COVER
LS990, alpine white

► YOUR BENEFITS

- Contactless reader technology
- Optical status indication provided by 3 LEDs
- Acoustic status indication by signal generator
- Power supply of reader and door strike by external power supply
- Reading range up to 5 cm

OR400 ACCESS READER

Contactless reader technology; flush-mounted; power supply by external power supply; **only with MTZ® milock Locking System in combination with MTZ® Access**

FUNCTION: Access

▼ OR400 GIRA

MH9123 OR400 Gira, MIFARE Classic

▼ OR400 BUSCH-JAEGER

MH9125 OR400 Busch-Jaeger, MIFARE Classic

▼ OR400 BERKER

MH9124 OR400 Berker, MIFARE Classic

▼ OR400 JUNG

MH9126 OR400 Jung, MIFARE Classic

▼ ACCESSORIES AND OPTIONS

MH8949 R600 Key Coder
MIFARE Classic / DESFire

MH8772 Rack mount power supply unit 30 W

For other colour options, see the section „Accessories“.

Hardware Offline

Door Controller for Reader Offline



ODC15 DOOR CONTROLLER

Door control module for stand-alone operation and for all ORC reader; RS485 interface (2-wire) for connection to reader; one controller per reader; DIN rail-mounted; **only with MTZ® milock** Locking System in combination with MTZ® Access

► YOUR BENEFITS

- Door control module for all ORC readers
- DIN rail-mounted
- Power supply of reader, door controller and door strike by external power supply
- 5 relay outputs
- 5 optocoupler inputs

▼ DOOR CONTROLLER

MH4383 ODC15 Door Controller

▼ ACCESSORIES AND OPTIONS

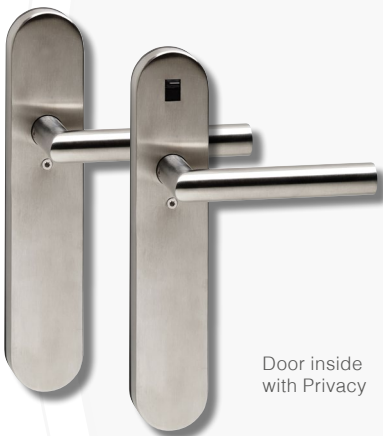
MH8949 R600 Key Coder
MIFARE Classic / DESFire

MH8772 Rack mount power supply unit 30 W

milock Focus Door terminal



Door outside
Door inside



Door inside
without Privacy

Door inside
with Privacy

MILOCK FOCUS

Mechatronic door lock system

Mortise lock:

Suitable for single-winged doors with handles according to DIN EN 179; DIN 18250; a mechatronic door lock system with battery supply and integrated R/W MIFARE reader; compatible with the MIDITEC handle series; with a latch bolt, round forend, prepared for profile cylinder including 2 forend screws.

Antenna and battery compartment:

Contactless MIFARE antenna and battery compartment in the plate on the inside of the door; in silver or brass.

Door handle:

Please select the door handles from the available MIDITEC series.

► YOUR BENEFITS

- Contactless MIFARE Classic reader (outside)
- From the outside the fitting can only be opened via electronic authorisation
- Visual and acoustic system status indication (e.g., locked status, battery replacement required)
- Storage of the last 1,500 bookings
- Programming via system cards
- Flexible time zone management and control
- Management of access rights via group organisation (256 locking groups, 16 weekly programmes per group)
- Authorisation via card
- Blacklist for blocked cards can be generated
- Up to 4 time zones per day
- Door release time freely selectable
- Automatic daylight-saving time adjustment
- Reading range up to 1.5 cm
- Easy installation

milock Focus

Door terminal

▼ MILOCK FOCUS

MF1000	milock Focus, stainless steel matt brushed, MIFARE Classic, mortise lock backset 55 mm
MF1001	milock Focus with Privacy, stainless steel matt brushed, MIFARE Classic, mortise lock backset 55 mm
MF1004	milock Focus with monitoring contact, stainless steel matt brushed, MIFARE Classic, mortise lock backset 55 mm
MF1005	milock Focus with Privacy with monitoring contact, stainless steel matt brushed, MIFARE Classic, mortise lock backset 55 mm

▼ MORTISE LOCK

MF1011	Mortise lock backset 60 mm
MF1012	Mortise lock backset 65 mm
MF1013	Mortise lock backset 80 mm

▼ MORTISE LOCK WITH MONITORING CONTACT

MF1016	Mortise lock with monitoring contact backset 60 mm
MF1017	Mortise lock with monitoring contact backset 65 mm
MF1018	Mortise lock with monitoring contact backset 80 mm

▼ PROFILE HALF CYLINDER

MH4806	Profile half cylinder 30-10 with security card
MH4807	Profile half cylinderr 35-10 with security card

A profile half cylinder body with the required dimensions of the door has to be ordered.

▼ DOOR HANDLE TYPES

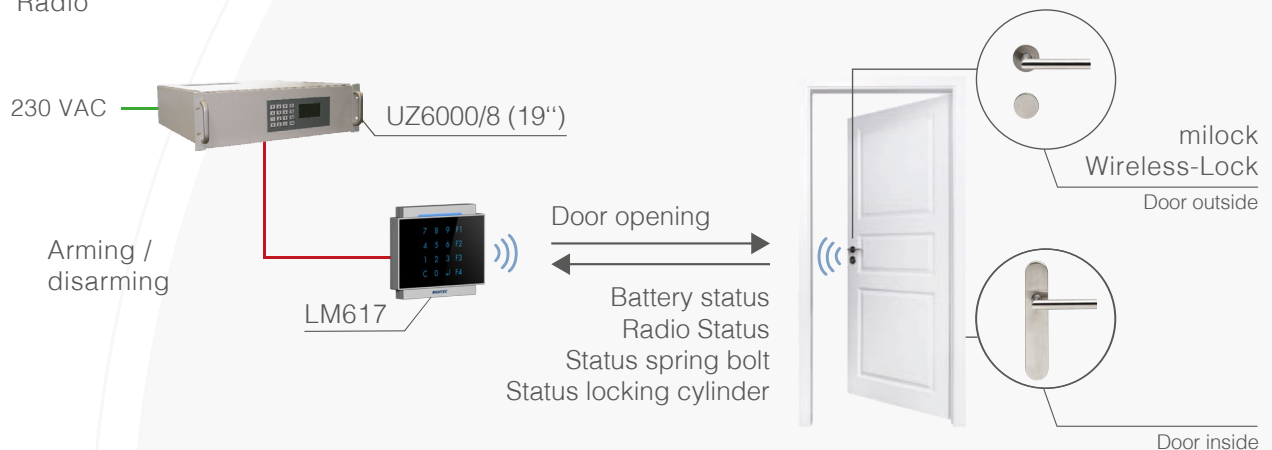
MF1020	Door handle type MIDITEC Standard L, stainless steel matt brushed
MF1021	Door handle type L-Panic, stainless steel matt brushed
MF1022	Door handle type C, stainless steel matt brushed
MF1023	Door handle type U, stainless steel matt brushed

For further information on door handle types refer to the pages 114/115.

milock Wireless Lock Door Terminal

— RS422 (cable J-Y(ST)Y 2 x 2 x 0.8 mm)

))) Radio



MILOCK WIRELESS LOCK

Electronic wireless lock for RFID-reader

► YOUR BENEFITS

- Wireless - replaces wired door openers
- Door opening via radio signal
- Practicable pairing procedure with support of the construction sites function (no prior system configuration necessary)
- Door-sided, battery-buffered slave unit and reader-sided master unit
- Doorpattern inside: plate with battery compartment, radio receiver
- Doorpattern outside: handle
- Automatic, manual and remote-controlled reading of battery status (online operation necessary)
- Connection status is evaluated in MTZ® Business Solution (online operation necessary)
- Alarm notification in case of longer interruption of radio communication (online operation necessary)
- Emergency door opening by means of a mechanical cylinder
- AES128 bit encryption
- Man-in-the-middle protection
- Battery life approx. 2 years
- 4 AA lithium ion batteries

milock Wireless Lock

Door Terminal

▼ MILOCK WIRELESS LOCK

MF1006	milock Wireless Lock, stainless steel matt brushed, MIFARE Classic, mortise lock backset 55 mm
MF1007	milock Wireless Lock with Privacy, stainless steel matt brushed, MIFARE Classic, mortise lock backset 55 mm
MF1008	milock Wireless Lock with monitoring contact, stainless steel matt brushed, MIFARE Classic, mortise lock backset 55 mm
MF1009	milock Wireless Lock with Privacy with monitoring contact, stainless steel matt brushed, MIFARE Classic, mortise lock backset 55 mm

▼ MORTISE LOCK

MF1011	Mortise lock backset 60 mm
MF1012	Mortise lock backset 65 mm
MF1013	Mortise lock backset 80 mm

▼ MORTISE LOCK WITH MONITORING CONTACT

MF1016	Mortise lock with monitoring contact backset 60 mm
MF1017	Mortise lock with monitoring contact backset 65 mm
MF1018	Mortise lock with monitoring contact backset 80 mm

▼ DOOR HANDLE TYPES

MF1020	Door handle type MIDITEC Standard L, stainless steel matt brushed
MF1021	Door handle type L-Panic, stainless steel matt brushed
MF1022	Door handle type C, stainless steel matt brushed
MF1023	Door handle type U, stainless steel matt brushed

For further information on the door handle types refer to the pages 114/115.

▼ ACCESS READER MILOCK WIRELESS LOCK

MF3000	Access reader LM607 for milock Wireless Lock, MIFARE Classic, surface-mounted
MF3001	Access reader LM607 for milock Wireless Lock, MIFARE Classic, flush-mounted
MF3002	Access reader LM617 for milock Wireless Lock, MIFARE Classic, surface-mounted
MF3003	Access reader LM617 for milock Wireless Lock, MIFARE Classic, flush-mounted
MF3004	Access reader LM627 for milock Wireless Lock, MIFARE Classic, surface-mounted
MF3005	Access reader LM627 for milock Wireless Lock, MIFARE Classic, flush-mounted

milock Focus and milock Wireless Lock

Door Handle Types

OVERVIEW DOOR HANDLE TYPES STAINLESS STEEL



MF1020

Door handle type MIDITEC Standard L,
stainless steel matt brushed



MF1021

Door handle type L-Panic,
stainless steel matt brushed



MF1022

Door handle type C,
stainless steel matt brushed



MF1023

Door handle type U,
stainless steel matt brushed

▼ DOOR HANDLE TYPES

MF1000 milock Focus, stainless steel matt brushed, MIFARE Classic, mortise lock backset 55 mm

MF1006 milock Wireless Lock, stainless steel matt brushed, MIFARE Classic, mortise lock backset 55 mm

For further versions, please, refer to our price list.

MIDITEC STANDARD PACKAGE

Basic fitting



*only milock Focus

Outside

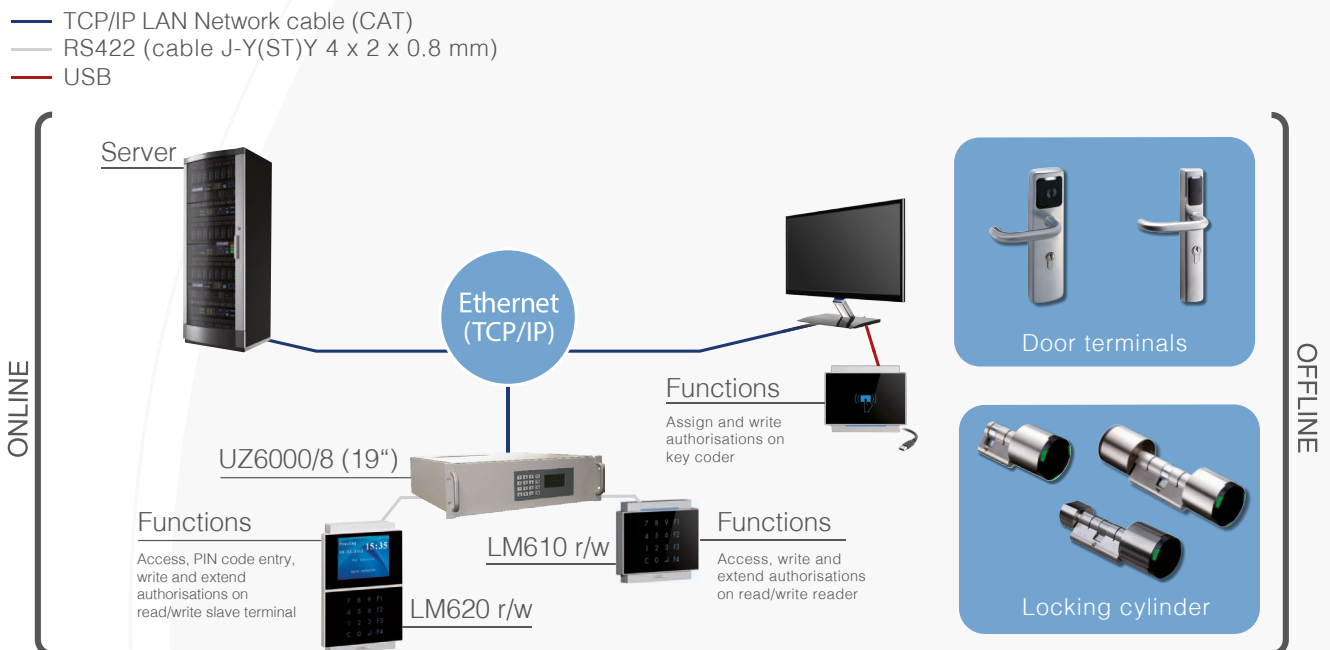
Inside



With Privacy

PegaSys

In Combination with MIDITEC Online Systems



INTEGRATION OF PEGASYS

Offline authorisations are managed by means of day tickets. Each employee must renew his individual authorisations by making day-to-day access bookings at a read/write reader located in the entrance area and connected online. Apart from the renewal also modified authorisations are written on the card. A block in the online system therefore automatically affects all relevant offline components.

► YOUR BENEFITS

- Integration of offline components in an access control system network
- Integration of door terminals and cylinders
- Support of MIFARE Classic / DESFire and LEGIC prime / advant
- Extension of authorisations (writing on the card)
- Assigning new authorisations in case of changes (writing on the card)
- Transfer of battery status (from version 2.1 and 3.1 on + respective hardware)
- For indoor and outdoor use

PegaSys

Door Terminals for Full-Frame Doors or Tubular Frame Doors



PEGASYS INDOOR AND OUTDOOR

PegaSys Terminals B and S for in- and outdoor use.
For first order, a PegaSys programming cardset has to be ordered. Products on page 108.

PegaSys Terminals B for outdoor use

- IP 55, in combination with an inside battery compartment MN1004

PegaSys Terminals S for outdoor use

- IP 55, in combination with an inside battery compartment MN1005

For first order, a PegaSys programming cardset has to be ordered. For the reading system MIFARE DESFire an OEM 2-licence is necessary once for the start. For LEGIC an IAM- and a SAM 63-card are demanded for initialisation. Products on page 57.

► YOUR BENEFITS

- Stainless steel door handle
- With PZ-perforation or blind
- Mounting plate matching to door fittings (inside)
- With adapter for square spindle and lever handle and all further necessary accessories for professional mounting of the indoor fitting
- Including lithium batteries
- With inner lever handle set containing rosettes and short or long plates
- Suitable for wood, steel or metal doors (PegaSys B)
- Without cylinder and mortise lock
- Certified for fire protection approval P-120003473
- Suitable for small frames in wood, steel or aluminium (PegaSys S)

▼ PEGASYS

MN1000	Door terminal PegaSys B MIFARE Classic / DESFire
MN1002	Door terminal PegaSys B LEGIC prime / advant
MN1001	Door terminal PegaSys S MIFARE Classic / DESFire
MN1003	Door terminal PegaSys S LEGIC prime / advant

▼ ACCESSORIES AND OPTIONS

MN1004	Battery compartment self-engaging for door terminal PegaSys B
MN1005	Battery compartment screwed for door terminal PegaSys S

Supported data formats: 2.0, 2.1 and 3.1

PegaSys Electronic Lock Cylinder



ELECTRONIC DOUBLE-KNOB LOCK CYLINDER / PEGASYS TYPE 1 (SINGLE-SIDED BOOKING)

The cylinder consists of a profile cylinder and two knob modules, a mere mechanical and an electronic knob module. The turning knob is firmly connected to the locking nose on the mechanical side. On the electronic side, the turning knob can rotate freely. Only after successful authorisation, the coupling unit will be activated and the cylinder can be un-/locked. The special cylinder body is equivalent to DIN 18254, therefore it can be plugged in into already existing mortise locks. The communication electronics and the batteries are both located in the mechanical knob side. By exchanging the profile cylinder the double-knob lock cylinder can be adapted to all particular door thicknesses.

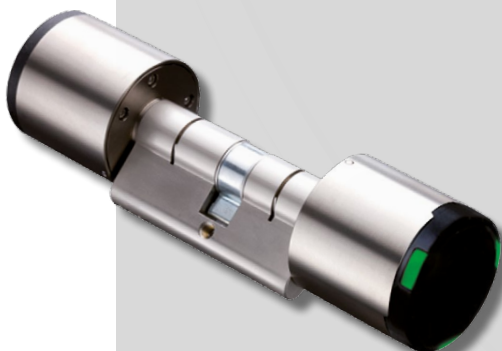
IP 55: Fire protection approval / IP 65: Outdoor solution



ELECTRONIC HALF-CYLINDER BODY / PEGASYS TYPE 2

The cylinder consists of a mechanical knob module and a profile half cylinder body. Only after successful authorisation, the electronic coupling unit will be activated and the cylinder can be un-/locked. The communication electronics and the batteries are located in the knob module.

IP 55: Fire protection approval



ELECTRONIC DOUBLE-KNOB LOCK CYLINDER / PEGASYS TYPE 3 (DOUBLE-SIDED BOOKING)

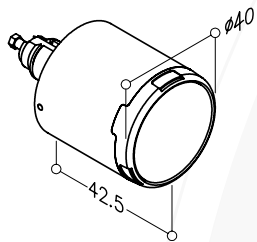
The cylinder (appropriate for double-sided booking) consists of a profile cylinder body and two electronic knob modules, which can each rotate freely. Only after successful authorisation (from outside as well as from inside), the electronic coupling unit will be activated and the cylinder can be un-/locked. The special profile cylinder body is equivalent to the DIN 18254, therefore it can be plugged in into already existing mortise locks. The communication electronics and the batteries are each located in the electronic knob modules. By exchanging the profile cylinder the double-knob lock cylinder can be adapted to all particular door thicknesses.

IP 55: Fire protection approval

PegaSys

Electronic Lock Cylinder

ELECTRONIC KNOB CYLINDER



For first order, a PegaSys programming cardset has to be ordered. For the reading system MIFARE DESFire an OEM 2-licence is necessary once for the start. For LEGIC an IAM- and a SAM 63-card are demanded for initialisation. Products on page 109.

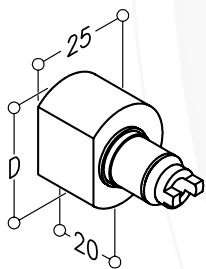
▼ FOR INDOOR USE

- MN1006** Electronic knob cylinder for indoor use, MIFARE Classic / DESFire 2.0
- MN1007** Electronic knob cylinder for indoor use, LEGIC prime / advant 2.0

▼ FOR OUTDOOR USE

- MN1008** Electronic knob cylinder for outdoor use, MIFARE Classic / DESFire 2.0
- MN1009** Electronic knob cylinder for outdoor use, LEGIC prime / advant 2.0

MECHANICAL KNOB

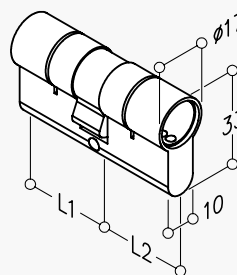


▼ MECHANICAL KNOB

- MN1010** Mechanical knob for internal door side, 29.5 mm (standard)
- MN1011** Mechanical knob for internal door side, 34 mm

CYLINDER BODY (EURO PROFILE)

Other cylinder bodies on request.

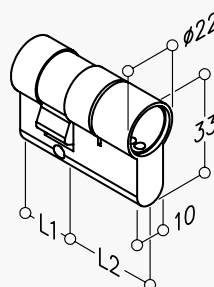


▼ CYLINDER BODY

- MN1012** Cylinder body 30/30 mm (standard)

HALF CYLINDER BODY

Other half cylinder bodies on request.



▼ HALF CYLINDER

- MN1067** Half cylinder body 30/10 mm (standard)

PegaSys Electronic Locker Lock



ELECTRONIC LOCKER LOCK

For first order, a PegaSys programming cardset has to be ordered. For the reading system MIFARE DESFire an OEM 2-licence is necessary once for the start. For LEGIC an IAM- and a SAM 63-card are demanded for initialisation.

These products can be found on the following page.

► YOUR BENEFITS

- IP 20 for indoor area
- Suitable for wood, steel and aluminium doors with a thickness of up to 20 mm

▼ ELECTRONIC LOCKER LOCK

MN1076

PegaSys Locker Lock MIFARE Classic

MN1098

PegaSys Locker Lock LEGIC prime

PegaSys

Programming Cards



PROGRAMMING CARDSET PEGASYS

Programming cardset of PegaSys Locking System;
different versions

▼ PROGRAMMING CARDSET

with FC card, security card, dismounting card,
and battery changing card

MN1080	PegaSys Programming cardset MIFARE Classic
MN1081	PegaSys Programming cardset MIFARE DESFire
MN1082	PegaSys Programming cardset LEGIC prime
MN1083	PegaSys Programming cardset LEGIC advant

▼ LICENCE

MN1084	DESFire Licence OEM 2
MD5950	Charge for DESFire encoding by card

▼ LEGIC IAM CARDS

MN1085	LEGIC IAM Card prime
MN1086	LEGIC IAM Card advant

▼ LEGIC SAM CARDS

MN1087	LEGIC SAM 63 Card prime
MN1088	LEGIC SAM 63 Card advant



Locker Locking System

Locker Locking System | Controller

Software

Locking System for Locker Groups

LOCKING SYSTEM FOR LOCKER GROUPS

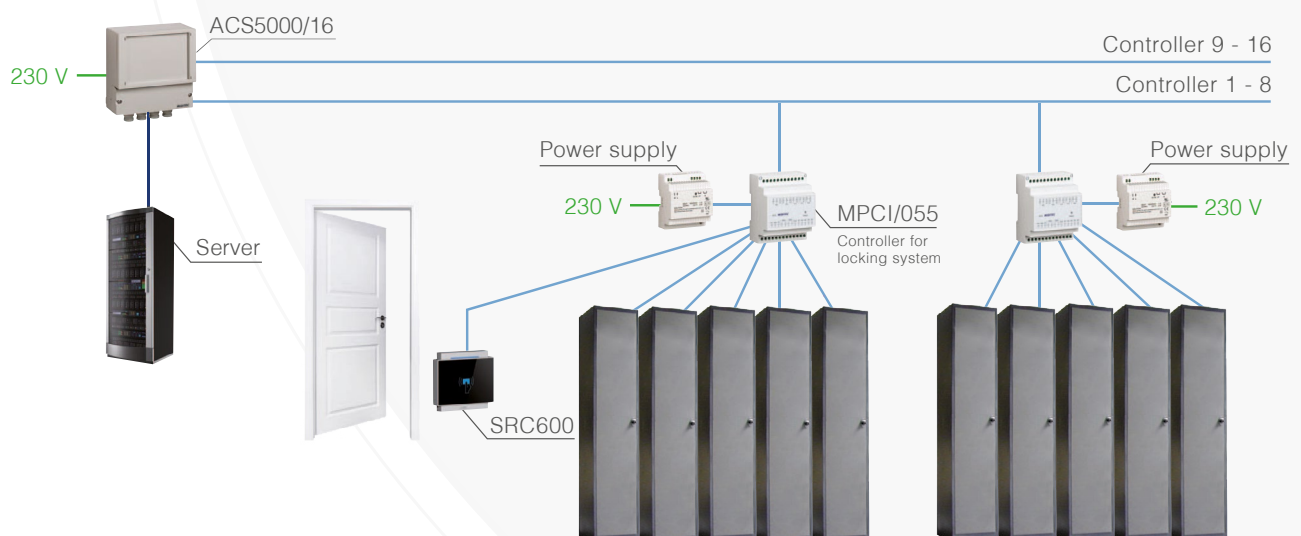
Security plays a decisive role with regard to buildings and rooms, but is also a major factor when it comes to lockers. The „Locking System for Locker Groups“ feature allows locker authorisations to be granted on a person-related basis. The authorisation is assigned in the employee profile. If multiple lockers are specified for one person, all the authorised lockers will open when a booking at the reader is made. The connection is established via a controller to which up to 5 doors can be connected. The controller is connected to a serial control unit offering space for up to 16 controllers. Hence, this setup allows up to 80 locker doors to be secured. A booking at the first reader connected to the controller is made, and the appropriate locker door opens. Locker doors that are not closed again are detected via a monitoring contact; locker break-ins (opening without card reading) are detected as well and trigger an alarm message. The „Locking System for Locker Groups“ feature is available as an add-on module to the access software and must be licenced. To provide a comprehensive solution, each locker requires a „cabinet lock“ which can for example be obtained from the company effeff.

▼ LOCKING SYSTEM

MB5354

Software Locking System for locking groups

- TCP/IP LAN Network cable (CAT)
- RS485 (cable J-Y(ST)Y 2 x 2 x 0.8 mm) max. 200 m



*Power supply for cabinet locks and MPC1/055

Hardware

Serial Control Unit for Locker Locking System



ACS5000/16 SERIAL CONTROL UNIT FOR LOCKER LOCKING SYSTEM

Serial access control unit with two RS485 interfaces for connection of up to 2x8 SDC15 door controllers (bus system) and up to one reader; connection to server or PC via Ethernet / RS485 interface; plastic casing; not available in steel casing; operation via serial interface

FUNCTION: Control of up to 16 MPC I/O 55 lock controller

► YOUR BENEFITS

- Management of up to 3,000 persons (optional 27,000)
- Storage of up to 7,700 events (optional up to 140,000)
- Data kept for at least 2 months (lithium battery)
- 512 KByte SRAM, can be extended (4 MB)
- Automatic recognition of connected controllers for locker locking system

▼ SERIAL CONTROL UNIT

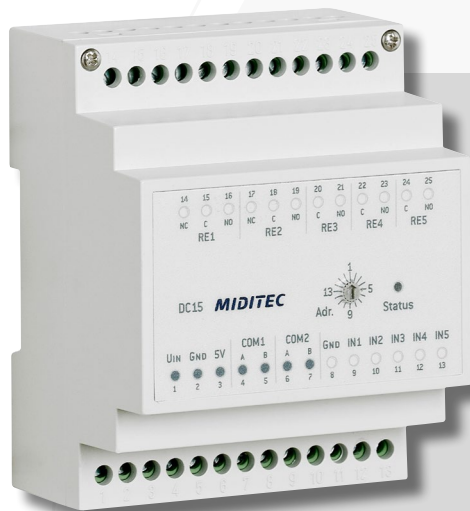
MH4465 ACS5000/16 for Locker Locking System

▼ ACCESSORIES AND OPTIONS

MH4505 4 MB Memory Upgrade

Hardware

Controller for Locker Locking System



MPC I/O 55 CONTROLLER FOR LOCKER LOCKING SYSTEM

Locker or door control module; RS485 interface (2-wire) for connection to a serial control unit for a locker locking system; DIN rail-mounted; power supply by external power supply also for door strike

► YOUR BENEFITS

- Locker control system for all SRC readers
- RS485 interface (2-wire) for connection to serial control unit for locker locking system
- DIN rail-mounted
- Power supply of reader, controller and door strike by external power supply
- 5 relay outputs
- 5 optocoupler inputs

▼ CONTROLLER

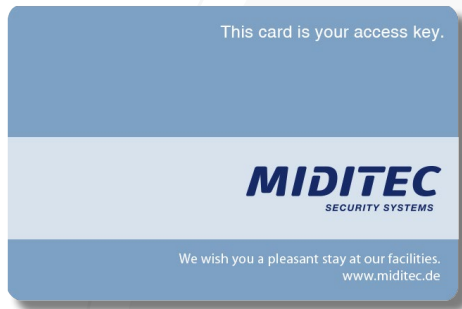
MH4994 MPC I/O 55 Controller for locker locking system

▼ ACCESSORIES AND OPTIONS

MH8772 Rack mount power supply unit 30 W

Accessories

ID Cards | Key Rings



MIFARE CLASSIC 1K CARD / MIFARE DESFIRE EV1 CARD

ID card blank; white; credit card format; programmed; high data transfer rate; multi-application capable; ISO /IEC 14443A

MH4680	Card MIFARE Classic 1 K
MH4685	Card MIFARE DESFire EV1 4 K 70 pF
MH4679	Card MIFARE DESFire EV1 8 K 70 pF

▼ OPTIONS

MH4657	Card printing single-sided, 4-colour print
MH4658	Card printing double-sided, 4-colour print



MIFARE CLASSIC 1 K KEY RING / MIFARE DESFIRE EV1 KEY RING

Key rings; programmed; high data transfer rate; multi-application capable; ISO /IEC 14443A

MH4681	Key Ring MIFARE Classic 1 K
MH4699	Key Ring MIFARE DESFire EV1 V5 8 K 120 pF

Note: For our key rings a minimum order quantity of 12 pieces is required.



MIFARE CLASSIC 1 K KEY RING "EVOLUTION"

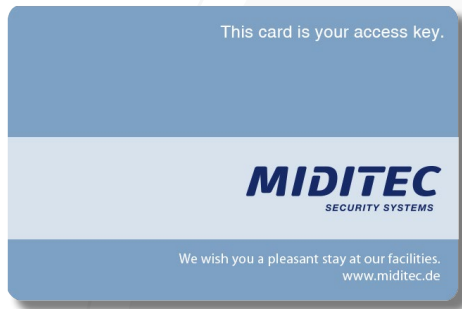
Key Ring in different colours, numbered, programmed; ABS plastic with polished stainless steel frame

MH4688	Key Ring "Evolution" MIFARE Classic 1 K
MH4689	Key Ring "Evolution" MIFARE DESFire EV1 V5 8 K 120 pF

Please specify your favorite colour on the order.

Accessories

ID Cards | Key Rings



LEGIC PRIME 256 B ID CARD / LEGIC ADVANT ID CARD

ID card blank; white; credit card format; numbered; programmed; multi-application capable; ISO/IEC 14443A

MH4650	Card LEGIC prime 256B
MH4663	ID Card LEGIC advant 4 KB

▼ OPTIONS

MH4657	Card printing single-sided, 4-colour print
MH4658	Card printing double-sided, 4-colour print



LEGIC PRIME 256 B KEY RING / LEGIC ADVANT KEY RING

Key rings; numbered, programmed; multi-application capable; ISO/IEC 14443A

MH4651	Key Ring LEGIC prime 256B
MH4664	Key Ring LEGIC advant 1 KB
MH4665	Key Ring LEGIC advant 4 KB

Note: For our key rings a minimum order quantity of 12 pieces is required.



LEGIC PRIME 256 B KEY RING "EVOLUTION" / LEGIC ADVANT KEY RING "EVOLUTION"

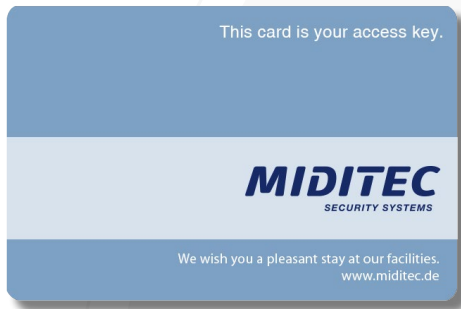
Key rings in different colours, numbered, programmed; ABS plastic with polished stainless steel frame

MH4693	Key Ring "Evolution" LEGIC prime 256 B
MH4694	Key Ring "Evolution" LEGIC advant 2 KB on request

Please specify your favorite colour on the order.

Accessories

ID Cards | Key Rings



HITAG 1 256 B CARD

ID card blank; white; credit card format; numbered; programmed; multi-application capable; ISO/IEC 14443A

MH4660 ID Card HITAG 1 256 B

▼ OPTIONS

MH4657 Card printing single-sided, 4-colour print
MH4658 Card printing double-sided, 4-colour print



HITAG 1 256 B KEY RING

Key rings numbered, programmed; multi-application capable; ISO/IEC 14443A

MH4661 Key Ring HITAG 1 256 B

Note: For our key rings a minimum order quantity of 12 pieces is required.



HITAG 1 256 B KEY RING "EVOLUTION"

Key Ring in different colours, numbered, programmed; ABS plastic with polished stainless steel frame

MH4695 Key Ring "Evolution" HITAG 1 256 B

Please specify your favorite colour on the order.

Only for existing customers.

Accessories

Power Supply Units



RACK MOUNT POWER SUPPLY UNIT 30 W

Power supply for up to 2 readers with door strike or for up to 2 readers with door controller and door strike (door strike up to 250 mA and free wheeling diode); insulation class II ; protection against short circuit, overload and excess voltage; DIN-rail mounting; LED „Power on“ indicator



RACK MOUNT POWER SUPPLY UNIT 60 W

Power supply for up to 4 readers with door strike or for up to 4 readers with door controller and door strike (door strike up to 250 mA and free wheeling diode); insulation class II ; protection against short circuit, overload and excess voltage; DIN-rail mounting; LED „Power on“ indicator

▼ POWER SUPPLY UNITS

MH8772	Rack mount power supply unit 30 W
MH8773	Rack mount power supply unit 60 W

Accessories

Key Coder



R950 DESKTOP KEY CODER

Programming of person and system cards; login / declaration reader for unique number usage; USB interface for connection to a PC; only for MTZ® milock Locking System or MTZ® PegaSys Locking System

▼ KEY CODER

MH8954	R950 Desktop Key Coder MIFARE Classic / DESFire
MH8949	R600 Key Coder MIFARE Classic / DESFire

▼ DELIVERY INCLUDES

- 1 USB cable



R600 KEY CODER

Programming of person and system cards; login / declaration reader for unique number usage; USB interface for connection to a PC; colour: silver/black; only for MTZ® milock Locking System or MTZ® PegaSys Locking System

Accessories

Weather Protection Covers



▼ WEATHER PROTECTION COVERS

MH4332 Weather Protection Covers for Readers
for all readers up to 100 x 100 mm,
e.g., 500, 600 reader series

MH4331 Weather Protection Cover for Readers
with Fingerprint or Display
for LM530, LM530, LM620, P620

Accessories

Door Terminals | PegaSys

PEGASYS

MN1089	Lithium battery micro (AAA) narrow 1,5 V for a door terminal PegaSys S	MN1093	PegaSys battery compartment key wide for door terminal Pegasys B
MN1090	Lithium battery mignon (AA) wide 1,5 V for a door terminal PegaSys B	MN1094	Pegasys battery compartment key narrow for door terminal Pegasys S Battery compartment key also useable for locker lock
MN1091	Lithium battery mignon (AA) 3,6 V for a locker lock	MN1095	Battery changing tools (5 units) for electronic lock cylinder
MN1092	Lithium CR2 battery for electronic lock cylinder	MN1096	Pegasys battery compartment wide for door terminal Pegasys B without batteries
		MN1097	Pegasys battery compartment narrow for door terminal Pegasys S without batteries

Accessories

Profile Half Cylinder Body



PROFILE HALF CYLINDER BODY

Mechanical profile half cylinder body for mechanical emergency opening of milock Focus or PegaSys door terminals with security card, simultaneous locking with 6-spring mounted pin tumblers in EU profile

► YOUR BENEFITS

- EU profile
- 6-spring mounted pin tumblers
- Trademarked multi-profile system
- Locking cam 8-times adjustable
- With security card
- Simultaneous locking

▼ PROFILE HALF CYLINDER BODY

- | | |
|--------|---|
| MH4806 | Profile half cylinder body 30-10 with security card |
| MH4807 | Profile half cylinder body 35-10 with security card |

Accessories

Design Examples for Switch Programmes

DESIGN EXAMPLES FOR ALL 400 READERS

LM400; SR400; SRC400; ORC400



MH4995

Busch-Jaeger
Frame and cover: future linear
black matt



MH4996

Busch-Jaeger
Frame and cover: pure stainless
steel



MH4896

Berker
Frame and cover: B1 aluminium matt



MH4997

Gira
Frame: E2; cover: system55
anthracite matt



MH4998

Jung
Frame and cover: A500 alpine white



MH4999

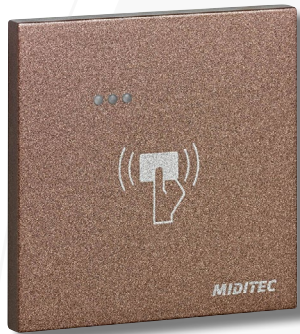
Jung
Frame and cover: A500 aluminium

Accessories

Design Examples for Switch Programmes

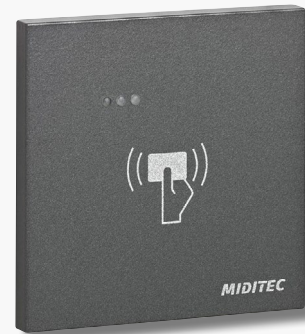
SIEDLE COVER COLOUR OPTIONS

LM500S; LM555S; SRC500S; ORC500S; LM510S; SRC510S



MH4978

Amber glimmer



MH4979

Dark-grey glimmer



MH4897

White



MH4980

Black high-gloss



MH4898

PIN Code White

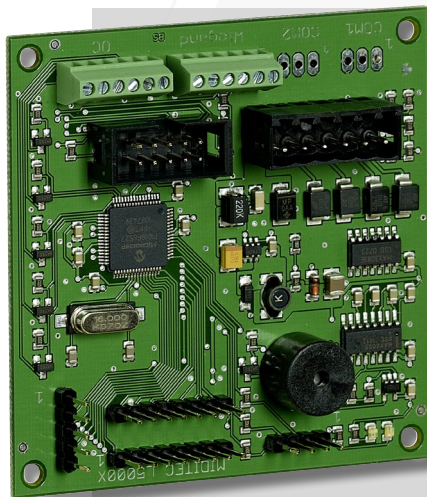


MH4899

PIN Code Dark-grey glimmer

Accessories

Interface Card for Universal Control Unit



INTERFACE CARD L5000X

Interface card for integrating third-party readers; RS422 interface for connection to a universal control unit; surface-mounting in LM500 casing or mounting in third-party reader supported; power supply by universal control unit

► YOUR BENEFITS

- Integration of third-party readers
- Online operation with universal control unit
- Optical status indication provided by 3 LEDs
- Power supply by universal control unit
- Connection via terminal block

Approved for the following readers:

Balogh 37

Balogh 37 alias

Balogh 37 LEGIC

HID; Protocol Wiegand 37

HID Corp 1000; Protocol Wiegand 35

NEDAP; Protocol Wiegand 37

NEDAP UPASS; Protocol Wiegand 26

TSV; Protocol Wiegand 96

Venescanner Icoznize 26 Bit Wiegand

Other interfaces on request.

▼ L5000X

MH4528 L5000X Interface Card

Please specify for which reader the interface card is to be used when placing the order.



Service

Trainings



▼ TRAINING

MD5900	Training per day
MD5901	Training per hour

On-site training; training dates to be defined individually.

▼ HOTLINE / SUPPORT

MD5920	Hotline / Support for every started 15 minutes
MD5921	Hotline / Support without software service license contract for every started 15 minutes

▼ GROUP TRAINING

MD5910	Per trainee and day
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Training at fixed dates and location.
Refreshments and lunch included.
Minimum number of trainees: 3

▼ BRIEFING AND COMMISSIONING

MD5930	External SAP System Integrator, SAP side
MD5931	MIDITEC SAP System Integrator, MTZ Business Solution side
MD5932	MIDITEC Development Engineer and Project Manager (per day)
MD5935	Installation of software and system parameterisation
MD5940	Graphic services and design, per hour
MD5941	Project planning door list per day
MD5942	Project planning door list per hour
MD5952	Checking the use of existing identification cards for a MIDITEC system

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MIDITEC
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