# MB-SECURE

The modular platform for security solutions

The multifunctional control unit MB-Secure for integration of intrusion detection and access control solutions.

The innovative licensing scheme of the MB-Secure enables the individual expansion of partitions, detector groups, users, macros as well as additional integrations like access control or even communication protocols, for economical solutions using one single system.

The integration of intrusion detection and access control gives highest investment security with a unique powerful system. The MB-Secure brings full flexibility even in changing requirements in existing systems. Any expansion of the functionality is feasible without replacement of the panel.

The modular portfolio including panels, expansion modules, power supplies and housings supports cost effective assembly to fit to any specific requirement. The power supplies with BUS-2 communication to the MB-Secure panel enables distributed energy supply with full monitoring of all systems states.
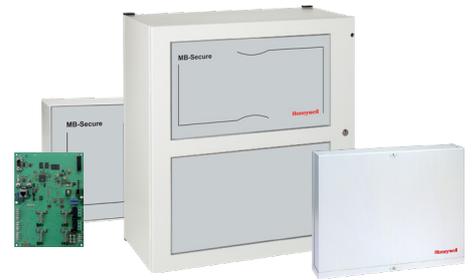
Connections on all motherboards:

- 4 BUS ports, switchable BUS-2/IB2/ Modulbus/RS-485

- Fast Ethernet port (10/100) RJ-45

- RS-232 port for alarm dialers DS67xx/DS7700

- 4 conventional detector group inputs with reset function

- 4 semiconductor outputs active 12 V DC/50 mA

- 2 relays 230 V AC/8 A

FEATURES AND BENEFITS

- Intrusion detection control unit with integrated access control
- Control unit in 6 different basic versions
- Modular expandable through IB2/ BUS-2/Modulbus/BUS-1/AADP
- Software licenses can be used to extend to:
  - 512 Areas/partitions
  - 4096 Detector groups
  - 512 Doors (BUS-2)
  - 10.000 Users
  - 512 Room/time zones
  - 2000 Macros
  - 32 Conventional doors
- Up to 10 Touch operating untis per BUS-2 port, up to 50 in total
- Powerful macro engine for handling complex tasks
- Extensive access control functionality, also in conjunction with IQ MultiAccess and IQ System Control
- Remote service and installer test mode via Web-Interface, also with mobile support
- Programming via TCP/IP or USB with IQ PanelControl software package
- Full WINMAG integration with direct IP connection

- License option for connection server over TCP/IP
- License option for SNMP
- License option for WAGO I/O
- License option for 3rd party Management systems over TCP/IP
- Supports encrypted mifare DESFire EV1/EV2 credentials, e.g. existing user badges
- Encrypted communication between reader and panel (optional)
- End-of-line resistor of the detector group inputs can be programmed
- Can be extended with external power supplies (via BUS-2)
- Extendable with RF components BUS-2 (max. 256 RF devices), with up to 32 RF-panic buttons
- Integration of a mobile app with Push function
- Event memory for up to 30,000 events
- Simple firmware update via USB stick
- DS 6700, DS 6750 and DS 7700 transmission devices with RFW-4000 can be integrated, with LTE/4G support

- Customer specific texts with up to 50 characters for main zones, detector groups, users, inputs, outputs, room/ time zone, etc.
- Lower equipment cost for larger and integrated systems
- Lower cost of installation for larger and integrated systems
- Only one user database to maintain, meaning:
  - lower cost of operation
  - reduced risk of error
- Scalable from small to enterprise solutions
- Can be integrated in IT systems, e.g. of data centers
- Optional TLS 1.2 - encrypted panel-to-panel network with up to 8 panels with 8 virtual I/Os as well as alarm transmission

Honeywell

MB-SECURE LICENSING

SCALABILITY THROUGH LICENSING

The modular security platform MB-secure allows for various configuration, integration and expansion possibilities. The web portal is used as a collection point for the required licenses keys:

https://mb-secure.honeywell.de

Here the linking between the acquired licenses and the computer PCB is made on basis of the serial number. This will create a license key that can be downloaded or sent by mail. In addition, a certificate is delivered too, which is used as evidence in case of returns. After subsequent importing the generated license key (using IQ PanelControl) into the respective computer PCB the desired functionality is enabled.

Configurations for licensing new boards and their peripherals can be compiled via comfortable menu items and work forms as is the case for extensions of existing systems.

Both the purchase of predefined panels with practical functionality as well the generation of customer specific systems is feasible.

The feature extension is possible, not only on new, but also on already installed systems, e.g. in case of building expansion or use case changes, and all without replacement of the main panel pcb.

Available inventory and stock movement can be seen at a glance as history is available and for the previous and current life cycle of an MB-Secure mainboard. User management with different rights requirements, as well as registration forms for software upgrades and errors complement the functionality of the web portal.

COST REDUCTION BY LESS STOCK KEEPING

The program is particularly useful in the case of damage or failures of a MB-Secure control unit. A special „Emergency" menu option exists for this purpose, which can be used to easily transfer existing licensing to new or possibly even existing replacement boards.

This method enables a much smaller stock as for servicing only one type of MB-Secure base board, Item No. 013 810, shall be provided.
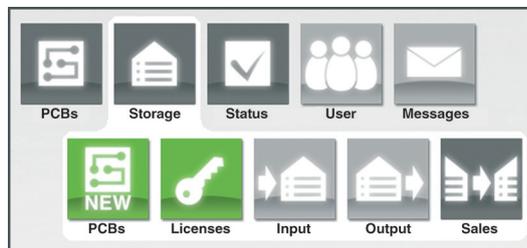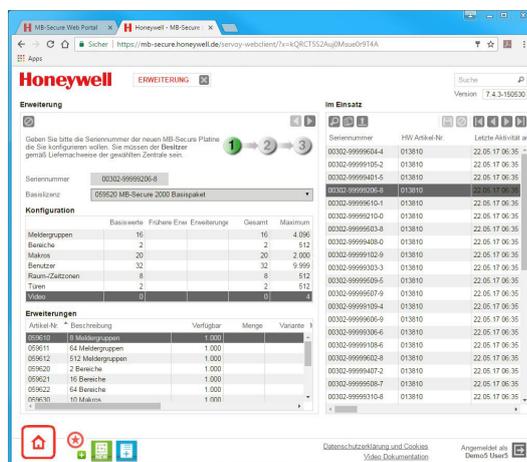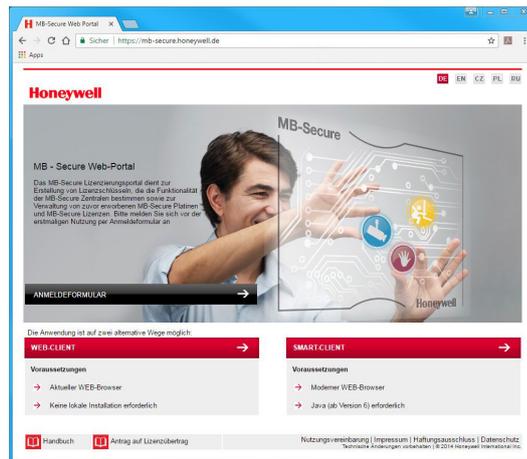
MB-SECURE	1000	2000	3000	4000	5000	6000	MAX.
DETECTOR GROUPS (ZONES)	8	16	48	128	512	2048	4096
AREAS	1	2	4	16	64	256	512
SPATIAL/TIME ZONES	4	8	16	32	64	256	512
USERS	16	32	64	128	512	1024	10000
MACROS	10	20	30	50	250	1000	2000
DOORS	1	2	4	16	64	256	512

Scalable · Flexible · Modular

MB-SECURE IQ PANELCONTROL, REMOTE SERVICE, CONNECTION SERVER

PROGRAMMING WITH IQ PANELCONTROL

The programming software allows quick and effective commissioning of the MB-Secure, as well as saving and printing the programming using an integrated object and system database to perform the hazard detection system documentation. Many programming tools such as automatic BUS-2 device scan, RF-device installation mode and various wizards allow for time-effective control unit programming.

IQ PanelControl can also be used to read out, perform detailed analysis and print out the control unit's entire event memory. IQ PanelControl allows not only the panel programming, it allows a comfortable equip of specific user groups or individual users with individual rights via the user management e.g. to see the events and operating states.

The direct launch of service functions is integrated as well, which makes it possible to carry out all necessary settings with one single application.

REAL SINGLE PERSON INSTALLER TEST MODE

This is provided by a built in web browser application to support installation and maintenance. It supports the individual test of all partitions, detector groups and their inputs, outputs, doors, macros, power supplies and communicators. Additional to this, all activities can be recorded in a separate protocol file. A list of not tested inputs and a printing option for maintenance reporting is included too.

REMOTE SERVICE THROUGH WEB SERVER

Through the built-in web server, installers can access the MB-Secure remotely for the quick detection of operating conditions and events, for immediate troubleshooting help and to provide support for the operator.

CONNECTIVITY THROUGH CONNECTION SERVER

Through the license option "Connection server", a secure remote service and remote programming access via IP networks is provided by using an individual server that can be indiviually configured and operated e.g. in the installer premises.
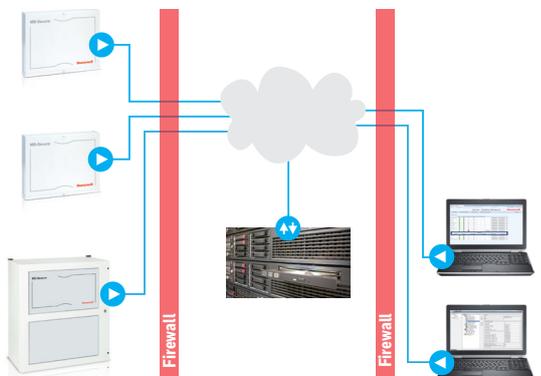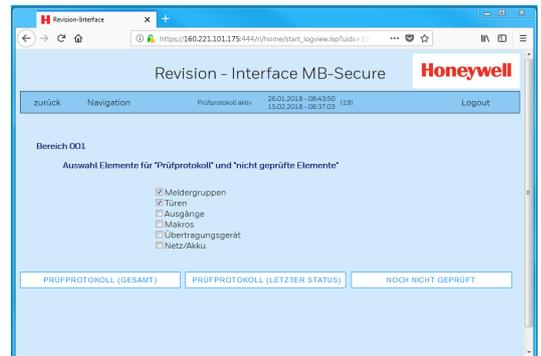
This is supported by "MB-Connector", which is included as installation option of IQ PanelControl. With this no fixed IP for MB-Secure or DDNS services are necessary and the systems can be operated seamlessly behind firewalls.

Also the installer test mode can be used with the connection server, by using this together with a mobile device e.g. a tablet with internet access the system can be operated and tested efficiently and from anywhere.

OPERATION BY MOBILE APP

The license option „mobile app" allows access to the MB-Secure via a mobile app (iOS or Android), for control and operation through the end customer with powerful push notification function (connection server required).

Therefor exists an extensive user-specific access control in MB-Secure. The access via fixed IP or optionally via connection server is also possible.

MB-SECURE CONNECTION OPTIONS INTRUSION ALARM

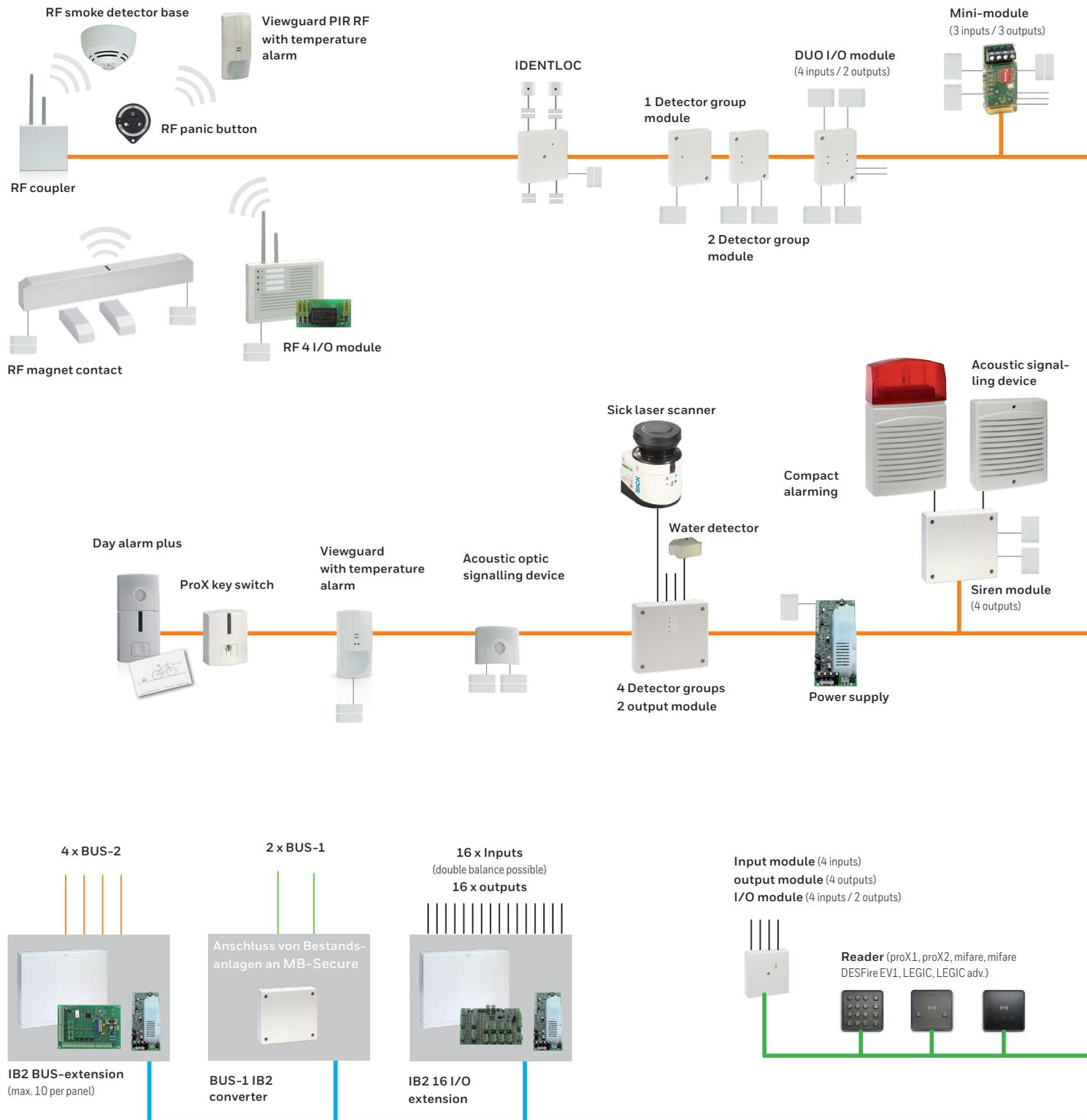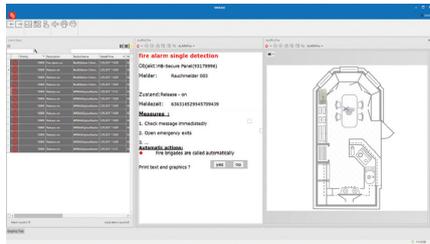| MB-SECURE	1000	2000	3000	4000	5000	6000	MAX.
MELDEGRUPPEN (ZONEN)	8	16	48	128	512	2048	4096
BEREICHE	1	2	4	16	64	256	512
RAUM-/ZEITZONEN	4	8	16	32	64	256	512
BENUTZER	16	32	64	128	512	1024	10000
MAKROS	10	20	30	50	250	1000	2000
TÜREN	1	2	4	16	64	256	512

One panel – 4 Bus systems

With it's 4 multifunctional BUS ports, the MB-Secure perfectly adapts to all installation environments.
Each port can be configured separately to one of four possible operating modes.

- **BUS-2** for up to 64 BUS-2 devices
- **IB2** for up to 10 IB2 BUS extensions with up to 4 BUS-2 lines each
- **Modulbus/RS-485** for connection of readers and I/O modules
- **AADP/RS-485** for connection with Aperio RS-485 HUB

RF smoke detector base

Viewguard PIR RF with temperature alarm

Mini-module (3 inputs / 3 outputs)

IDENTLOC

DUO I/O module (4 inputs / 2 outputs)

RF panic button

1 Detector group module

RF coupler

2 Detector group module

RF magnet contact

RF 4 I/O module

Sick laser scanner

Acoustic signalling device

Water detector

Compact alarming

Day alarm plus

ProX key switch

Viewguard with temperature alarm

Acoustic optic signalling device

Siren module (4 outputs)

4 Detector groups 2 output module

Power supply

4 x BUS-2

2 x BUS-1

16 x Inputs (double balance possible)
16 x outputs

Input module (4 inputs)
output module (4 outputs)
I/O module (4 inputs / 2 outputs)

Anschluss von Bestands-anlagen an MB-Secure

Reader (proX1, proX2, mifare, mifare DESFire EV1, LEGIC, LEGIC adv.)

IB2 BUS-extension (max. 10 per panel)

BUS-1 IB2 converter

IB2 16 I/O extension

IB2 (up to 2.000 m), max. 10 devices per connection

WINMAG
management-
system
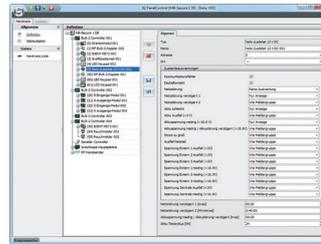
IQ PanelControl

TCP/
IP-network

2-Relay 2-input module
(2 inputs / 2 relay outputs)

IK3 evaluation unit

Block lock module

MB-Secure IP networking

MB-Secure

Honeywell

LICENCE
Software

Adpro outside PIR detector

MB TouchScreen

LCD/LED operating unit

LED operating unit

4 Detector groups 2 output module
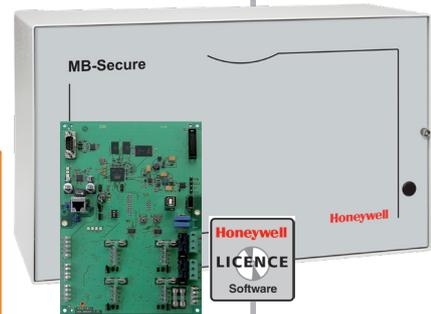
BUS-2 (up to 1.000 m), up to 64 devices per line

Aperio cylinder and fitting (max. 32 doors)

Aperio RS-485 HUB (max. 8 door components)

AADP/RS-485

Modul Bus/RS-485 (up to 1.200 m), encryption optional with luminAXS mifare DESFire EV1, max. 32 devices per connection

MB-Secure

Honeywell

LICENCE
Software

MB-SECURE CONNECTION OPTIONS ACCESS CONTROL

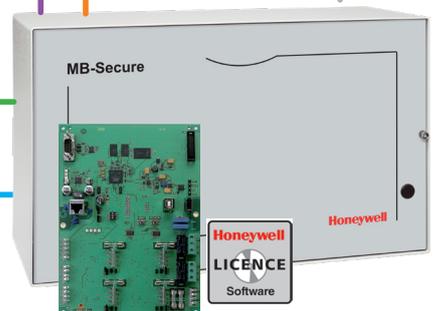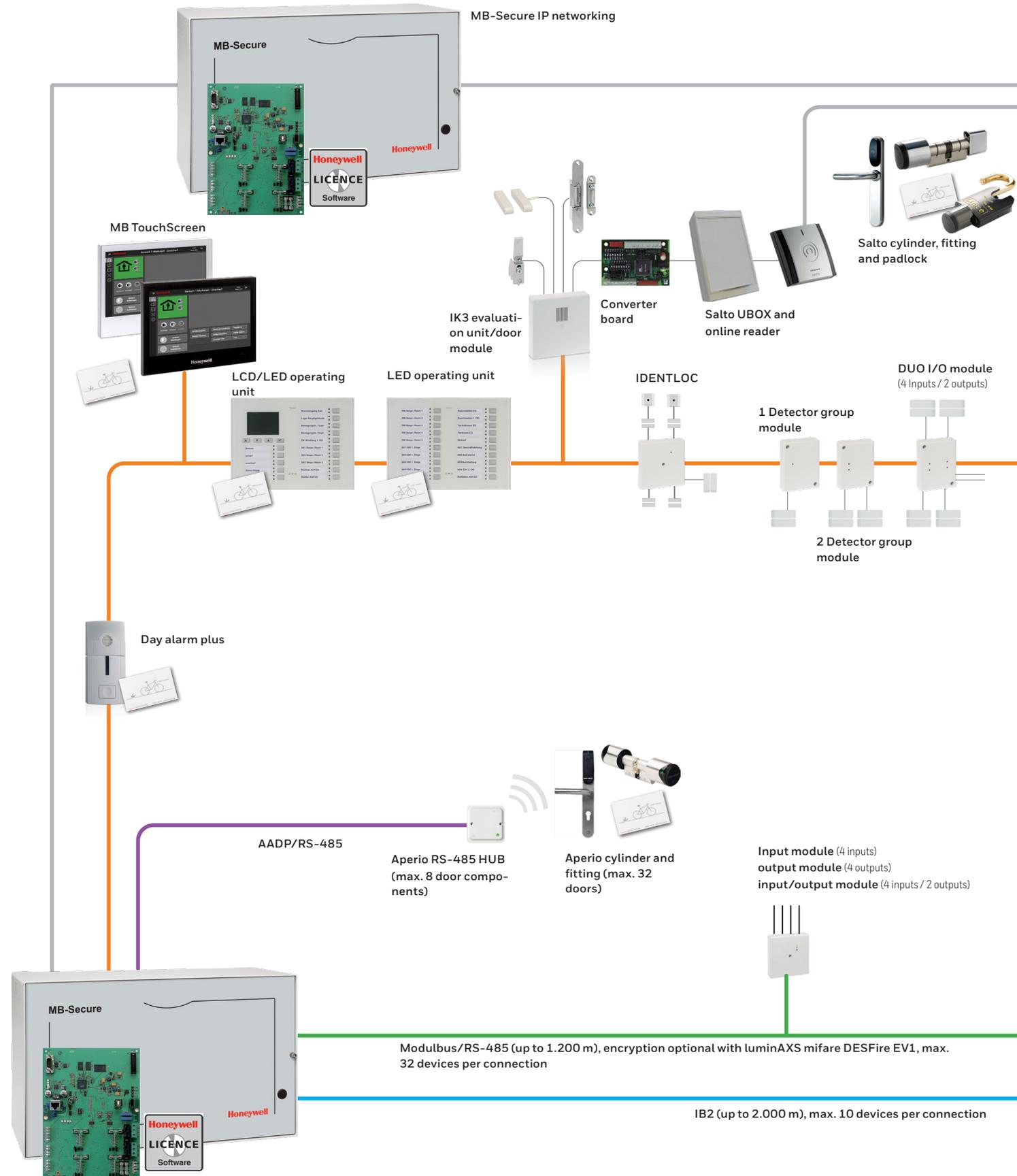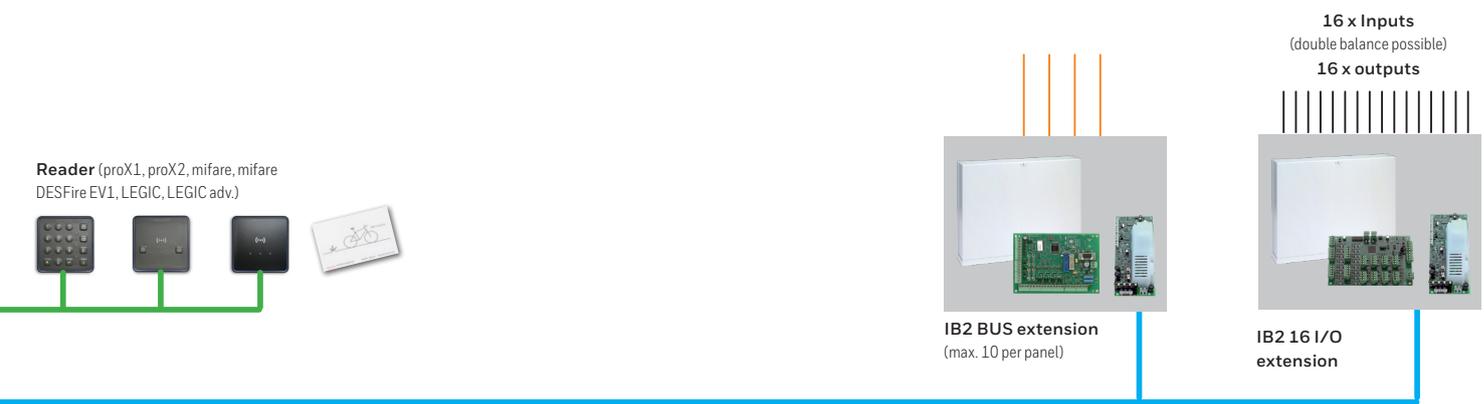| MB-SECURE		1000	2000	3000	4000	5000	6000	MAX.
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BEREICHE		1	2	4	16	64	256	512
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MB-Secure

MB-Secure IP networking

MB TouchScreen

Salto cylinder, fitting and padlock

LCD/LED operating unit

LED operating unit

IK3 evaluation unit/door module

Converter board

Salto UBOX and online reader

IDENTLOC

DUO I/O module
(4 Inputs / 2 outputs)

1 Detector group module

2 Detector group module

Day alarm plus

AADP/RS-485

Aperio RS-485 HUB (max. 8 door components)

Aperio cylinder and fitting (max. 32 doors)

Input module (4 inputs)
output module (4 outputs)
input/output module (4 inputs / 2 outputs)

MB-Secure

Modulbus/RS-485 (up to 1.200 m), encryption optional with luminAXS mifare DESFire EV1, max. 32 devices per connection

IB2 (up to 2.000 m), max. 10 devices per connection

Honeywell LICENCE Software

Enroll station for contactless biometric identification

IQ MultiAccess/ IQ SystemControl

WINMAG Management-system

ASSA ABLOY escape route technology

BUS-controller

Control unit

TCP/IP-network

Mini module
(3 Inputs / 3 outputs)

Contactless biometric identification

2 Relay 2 input module
(2 inputs / 2 relay outputs)

Acoustic/optical signalling device 2 detector groups

IK3 evaluation unit door module

Power supply

4 Detector groups 2 input module

Door module

16 x Inputs
(double balance possible)

16 x outputs

Reader (proX1, proX2, mifare, mifare DESFire EV1, LEGIC, LEGIC adv.)

IB2 BUS extension
(max. 10 per panel)

IB2 16 I/O extension

MB-SECURE CONNECTION OPTIONS IP

MB-SECURE

Skalierbar · Flexibel · Modular

1000 2000 3000 4000 5000 6000 MAX.

MELDEGRUPPEN (ZONEN)	8	16	48	128	512	2048	4096
BEREICHE	1	2	4	16	64	256	512
RAUM-/ZEITZONEN	4	8	16	32	64	256	512
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One panel - 4 Bus systems

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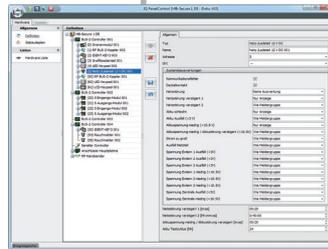Each port can be configured separately to one of four possible operating modes.

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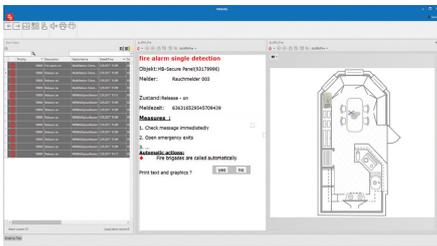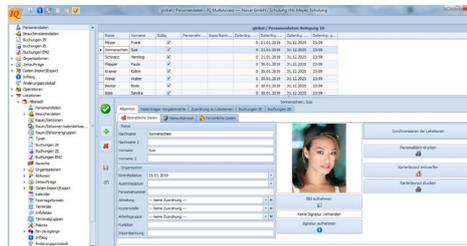
Secure connection

Remote service
via installer

IQ PanelControl

WINMAG
Management-
system

IQ MultiAccess/
IQ SystemControl

Strange-PSIM, GL

TCP/IP-
network

MB-Secure IP networking

MB-Secure

Honeywell

LICENCE
Software

MB-Secure

Honeywell
LICENCE
Software

Secure connection

TCP/
IP-network

Connection
server at the
installer

VPN necessary

GPRS/UMTS/LTE

GPRS/UMTS/LTE

Operating with
Android/iOS app

Operating with
Android/iOS app
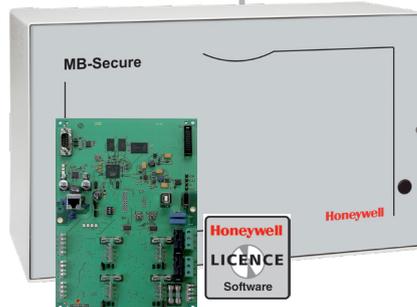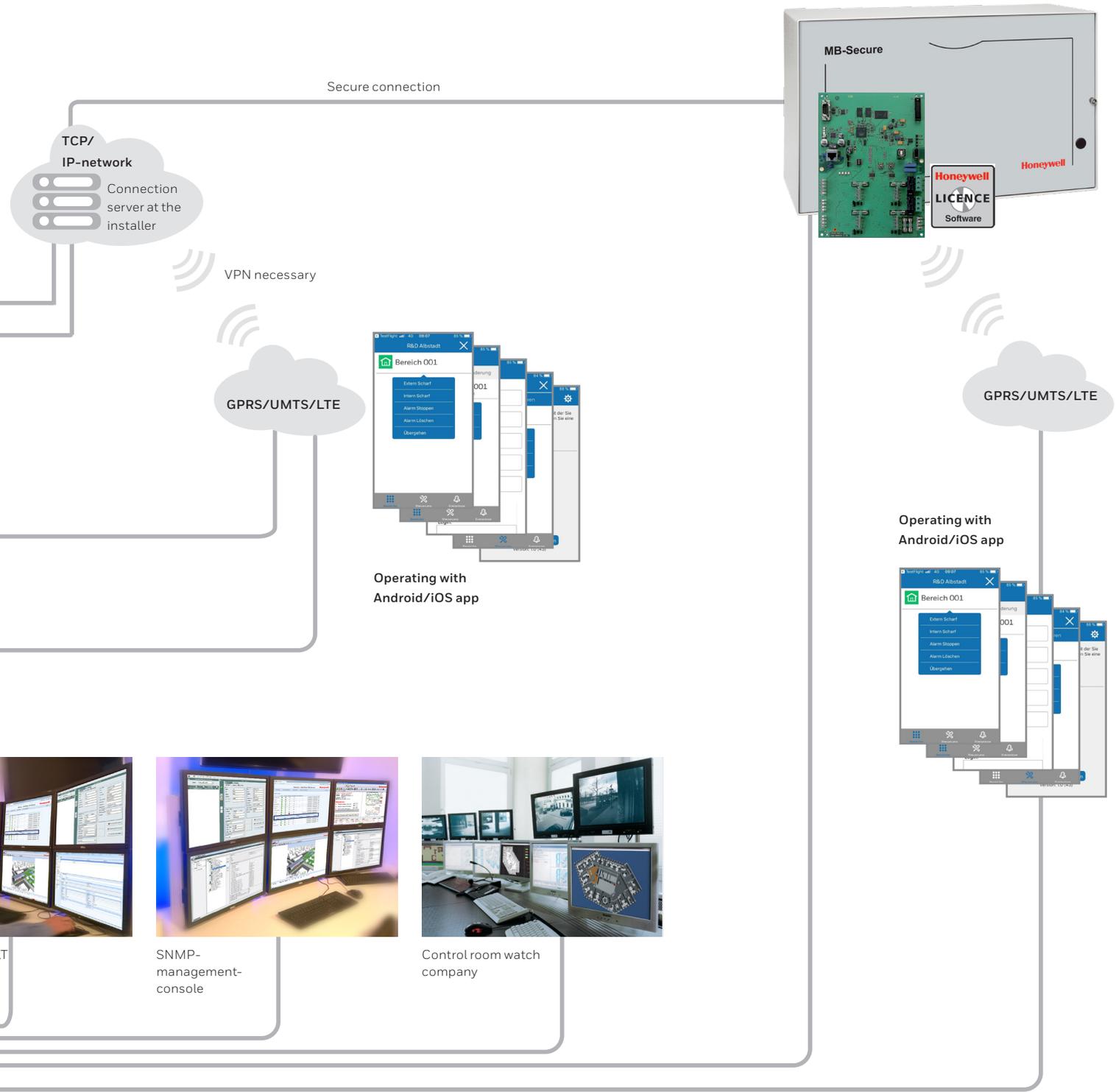
SNMP-
management-
console

Control room watch
company

Connection to building control system (e.g.
KNX, BACnet, etc.)

WAGO I/O system

WLAN

Operating with
Android/iOS app
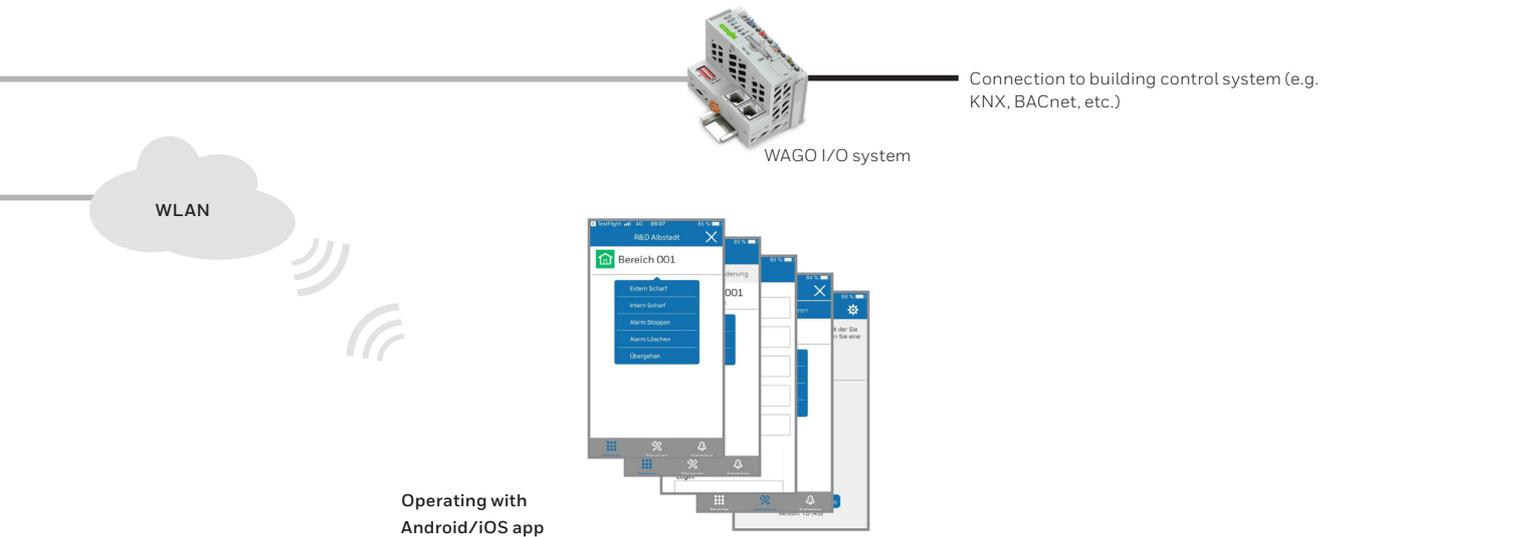
MB-SECURE BASE VARIANTS
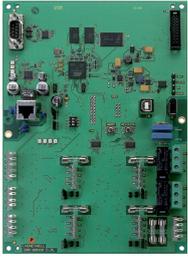
013810 MB-Secure motherboard
VdS-approval G114025, class C; EN 50131 grade 3, SES-EMA-RL-T2:2010-08

Computer PCB with firmware.

In addition, one of the base licenses item no. 059510, 059520,059530, 059540, 059550 or 059560 must be ordered. Subsequent upgrade using extension licenses is possible at any time. Computer / connection PCB, assembly and installation material, IQ PanelControl programming software.

| AS 013810 BUT WITH BASE LICENSE AND FOLLOWING FEATURES						
	Detector Groups	Partitions	Doors	Users	Room/Timezones	Macros
013820 MB-Secure 1000	8	1	1	16	4	10
013830 MB-Secure 2000	16	2	2	32	8	20
013840 MB-Secure 3000	48	4	4	64	16	30
013850 MB-Secure 4000	128	16	16	128	32	50
013860 MB-Secure 5000	512	64	64	512	64	250
013870 MB-Secure 6000	2048	256	256	1024	256	1000

EXPANSION MODULES

013930 IB2 Bus Expander

- IB2-BUS connection to MB-Secure
- 4 BUS connections for a total of up to 256 BUS-2 participatns
- 4 conventional detector group inputs, 1 with deletion function.
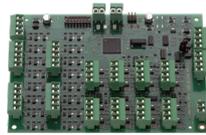
013940.10 IB2 16 I/O Expander

- IB2-BUS / BUS-2 connection to MB-Secure
- 16 conventional detector group inputs in double-balanced technology, deletable, switchable to active-low outputs
- 16 semiconductor outputs active 12 V DC
- 1 input for sabotage contact, connection for external power supply 12 V, 3 LEDs.

013941 Relay module 4x230V/8A, 8x24V/1A

- 8 relays with 24 V / 1 A
- 4 relays with 250 V AC / 8 A
- Potential-free switching contact
- Control with 12 V 50 mA

057820 MB-Secure IP USB Communication Module

For connection/communication to control centers or e-mail transmission.
- USB connection to MB-Secure
- 1 Ethernet/IP port 10 Mbit
- 3 USB ports
- LEDs for status display

057810 MB-Secure 4G IP USB Expansion Module

In connection with the license option 059830, it enables VdS-compliant connection/communication to control centers, SMS or e-mail transmission.
- USB connection to MB-Secure
- 1 Ethernet/IP port 10 Mbit
- 3 USB ports
- Supplied antennas can be attached to panel housings
- Optional remote antennas can be connected
- LEDs for status display

013920 Siren module for MB Secure

- BUS-2 module for connecting acoustic signal transmitters and flash lamps
- 2 freely programmable analog inputs, deletable, lid contact, pull-away contact
- 4 freely programmable outputs

013925 MB-Secure BUS-1 IB2 converter

- 2 BUS-1 strings for 63 participants each, max. 1000m
- BUS-1 connectors with electronic overload protection
- Integrated BUS-1 test device

MB-SECURE LICENSE OPTIONS

Article	Name	Characteristics/Service Features						Max. Pro Mb-Secure
		Areas	Detector groups	Door/switching elements (BUS-2)	Users	Room/time zones	Macros	
BASE LICENSES								
059510	MB-Secure 1000 base license	1	8	1	16	4	10	1 piece
059520	MB-Secure 2000 base license	2	16	2	32	8	20	1 piece
059530	MB-Secure 3000 base license	4	48	4	64	16	30	1 piece
059540	MB-Secure 4000 base license	16	128	16	128	32	50	1 piece
059550	MB-Secure 5000 base license	64	512	64	512	64	250	1 piece
059560	MB-Secure 6000 base license	256	2048	256	1024	256	1000	1 piece
EXTENSION LICENSES FUNCTIONALITY INTRUSION								
059610	extension license 8 detector groups	-	8	-	-	-	-	4096 MG
059611	extension license 64 detector groups	-	64	-	-	-	-	4096 MG
059612	extension license 512 detector groups	-	512	-	-	-	-	4096 MG
059620	extension license 2 partitions	2	-	-	-	-	-	512 partitions
059621	extension license 16 partitions	16	-	-	-	-	-	512 partitions
059622	extension license 64 partitions	64	-	-	-	-	-	512 partitions
059630	extension license 10 macros	-	-	-	-	-	10	2000 macros
059631	extension license 50 macros	-	-	-	-	-	50	2000 macros
059632	extension license 250 macros	-	-	-	-	-	250	2000 macros
059650	extension license 16 users	-	-	-	16	-	-	10.000 users
059651	extension license 64 users	-	-	-	64	-	-	10.000 users
059652	extension license 512 users	-	-	-	512	-	-	10.000 users
059660	extension license 4 room/time zones	-	-	-	-	4	-	512 RZZ
059661	extension license 16 room/time zones	-	-	-	-	16	-	512 RZZ
059662	extension license 64 room/time zones	-	-	-	-	64	-	512 RZZ
059670	extension license 2 doors	-	-	2	-	-	-	512 doors
059671	extension license 16 doors	-	-	16	-	-	-	512 doors
059672	extension license 64 doors (for IK3/Doorguard/access door modul BUS-2)	-	-	64	-	-	-	512 doors
059680	MB-Secure license 1 hw. door	Direct connection of Insertic/Siedle/Accentic/luminAXS readers						32 convent. doors
EXTENSION LICENSES REMOTE SYSTEMS AND COMMUNICATION								
059685	MB-Secure option ASSA Aperio door	Operation of ASSA Aperio wireless cylinder/-fitting through RS-485 Hub						32 cylinders
059820	MB-Secure license 3rd party level 1	Partition states, events, Detector group states, events and macro control						1 piece
059821	MB-Secure license 3rd party level 2	as 059820 plus Direct output control						1 piece
059822	MB-Secure license 3rd party level 3	as 059821 plus eventlog streaming, access control information (users etc.)						1 piece
059830	MB-Secure option for IP VdS2465	Connection/communication to control stations via VdS IP protocol. With MB-Secure 4G USB expansion module (057810) VdS-compliant redundant communication can be realized.						1 piece
059831	MB-Secure option for SIA DC-09	Connection/communication to control stations via SIA DC-09 (Contact-ID)						1 piece
059832	MB-Secure option SNMP protocol	Monitoring and control of MB-Secure by SNMP 100 outputs / 40 inputs						1 piece
059829	MB-Secure option WAGO-I/O	Connection to WAGO I/O systems series 750/753						1 piece
059845	MB-Secure option mobile app	Connection of a mobile app for remote operating via IP, for end customer						1 piece
059847	MB-Secure option Notification	Sending SMS and e-mail with free text modules						1 piece
059840	MB-Secure option connection server	Up to 2 connections to MB-Connector connection servers programmable						1 piece
059848	MB-Secure option event report	Sending evenlog per eMail						1 piece
059842	MB-Secure option panel network	TLS 1.2 - encrypted networking, 8 panels with 8 inputs/outputs each. Also remote alarm transmission using 059830						1 piece
EXTENSION LICENSE MIFARE DESFIRE AND ENCRYPTION								
059825	MB-Secure option mifare DESFire parameter	Enables the usage of mifare DESFire credentials containing custom encrypted applications, e.g. employee badges						1 piece
059826	MB-Secure option Modulbus-encryption	Encrypted communication to luminAXS mifare DESFire readers						1 piece

OPTIONS/ACCESSORIES

HOUSINGS

013730	ZG20 housing for MB-Secure
013740	ZG2 housing for MB-Secure
013750	ZG3.1 housing for MB-Secure
013760	ZG4 housing for MB-Secure
013770	19" front plate for MB-Secure

POWER SUPPLIES/CHARGER UNITS

013950	Power/charger unit 12 V DC/26 Ah
013960	Power/charger unit 12 V DC/52 Ah
013970	Power/charger unit 12 V DC/18 Ah
013975	Power/charger unit 12 V DC/8 Ah

ALARM COMMUNICATION MODULES

057651.20	DS 7700 ISDN/IP transmission device
057590.10	RFW 4000 GSM/GPRS/3G module
057590.20	RFW 4000 GSM/GPRS/4G module

BUS-2 KEYPADS

013000	LED operating unit, white, for MB-Secure
013001	LED/LCD operating unit, white, for MB-Secure
013003	Operating unit TouchCenter plus, white

EXPANSION MODULES

013920	Siren module for MB-Secure
013925	MB-Secure BUS-1 IB2 converter
013930	IB2 BUS expander
013940.10	IB2 16 I/O expander
013941	Relay module 4 x 230 V/8 A and 8 x 24 V/1 A
057810	MB-Secure 4G IP USB Expansion Module
057820	MB-Secure IP USB Communication Module

TECHNICAL DATA

Motherboard

Rated operating voltage: 12 V DC

Operating voltage range: 10.5 V to 15 V DC

Power consumption at operating voltage:

disarmed group connections open 200 mA
Ethernet operation (additional) 30 mA
per group connection (with 12,1 kOhm) 1 mA
relay 45 mA

Environmental class according to VdS: II

Protection class according to EN 60529: IP30

Operating temperature range: – 5 °C to +45 °C

Storage temperature range: –25 °C to +70 °C

Option control unit housing:

Dimensions B x H x T in mm:

ZG20 460 x 382 x 85 mm

ZG2 350 x 300 x 152 mm

ZG3.1 500 x 300 x 210 mm

ZG4 580 x 640 x 300 mm

Weight (without options):

ZG 20 approx. 5 kg

ZG 2 approx. 8 kg

ZG 3.1 approx. 13 kg

ZG 4 (without 19" front plate): ca. 28 kg

Colour:

Housing: traffic white (similar to RAL 9016)

Front: light grey (similar to RAL 7035)

For more information

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