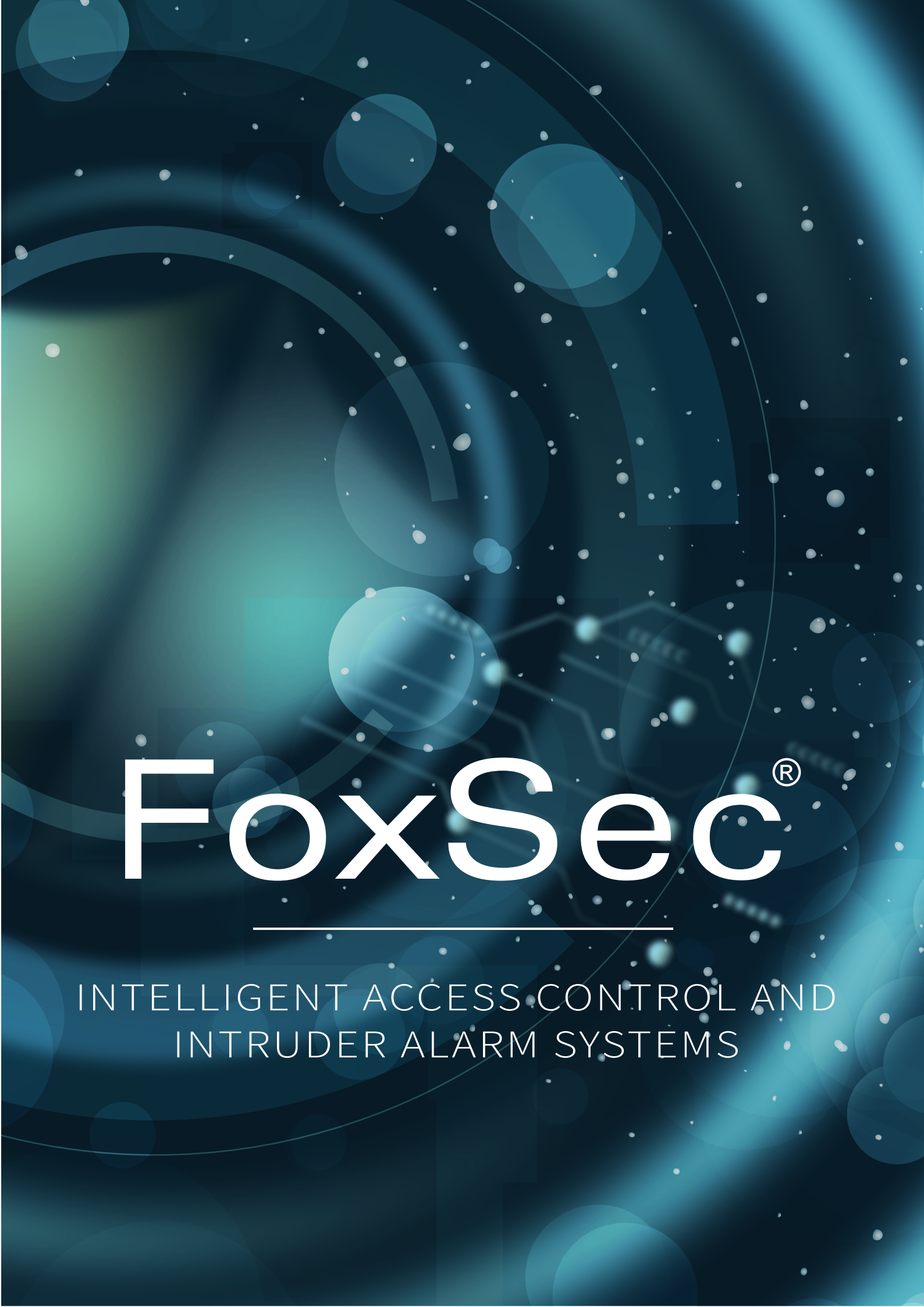

FoxSec®
INTELLIGENT ACCESS CONTROL AND
INTRUDER ALARM SYSTEMS

Hardmeier OÜ has manufactured FoxSec access control and security systems since 1994. Today we have more than 20,000 installed systems around the world. All of our hardware and software is produced in the highest quality assurance standards.

When buying FoxSec products, you obtain excellent value for money, a high degree of flexibility in terms of integrated solutions, and a comprehensive after-sales service, along with technical support. Our development department pays a great deal of attention to the wishes of our clients, and carefully examines any customer feedback. As a result, FoxSec is always at the forefront of development trends and every year the company is able to offer new products and integration solutions.

WEB

FoxSec WEB software is a web solution based on MS SQL. The software provides a convenient environment for administration of access control and management systems. It allows up various door and user administration rights. WEB interface facilitates multiple control points around the world. WEB allows a large number of companies to be set up which will administer their parts of the system by themselves.

Page 3-4

NET+

FoxSec NET+ system is an integrated security system, which comprises a single high-reliability system of security and access control. The system can manage online 20 central security control panels and an unlimited number of doors.

Page 5

LITE+

FoxSec Lite+ system is an integrated security system developed on the basis of FoxSec NET+ as a budget version of the system. FS9010 security control panels of the Lite+ system fully cooperate with FS9002 security control panels of the NET+ system.

Page 8

Smart Pass

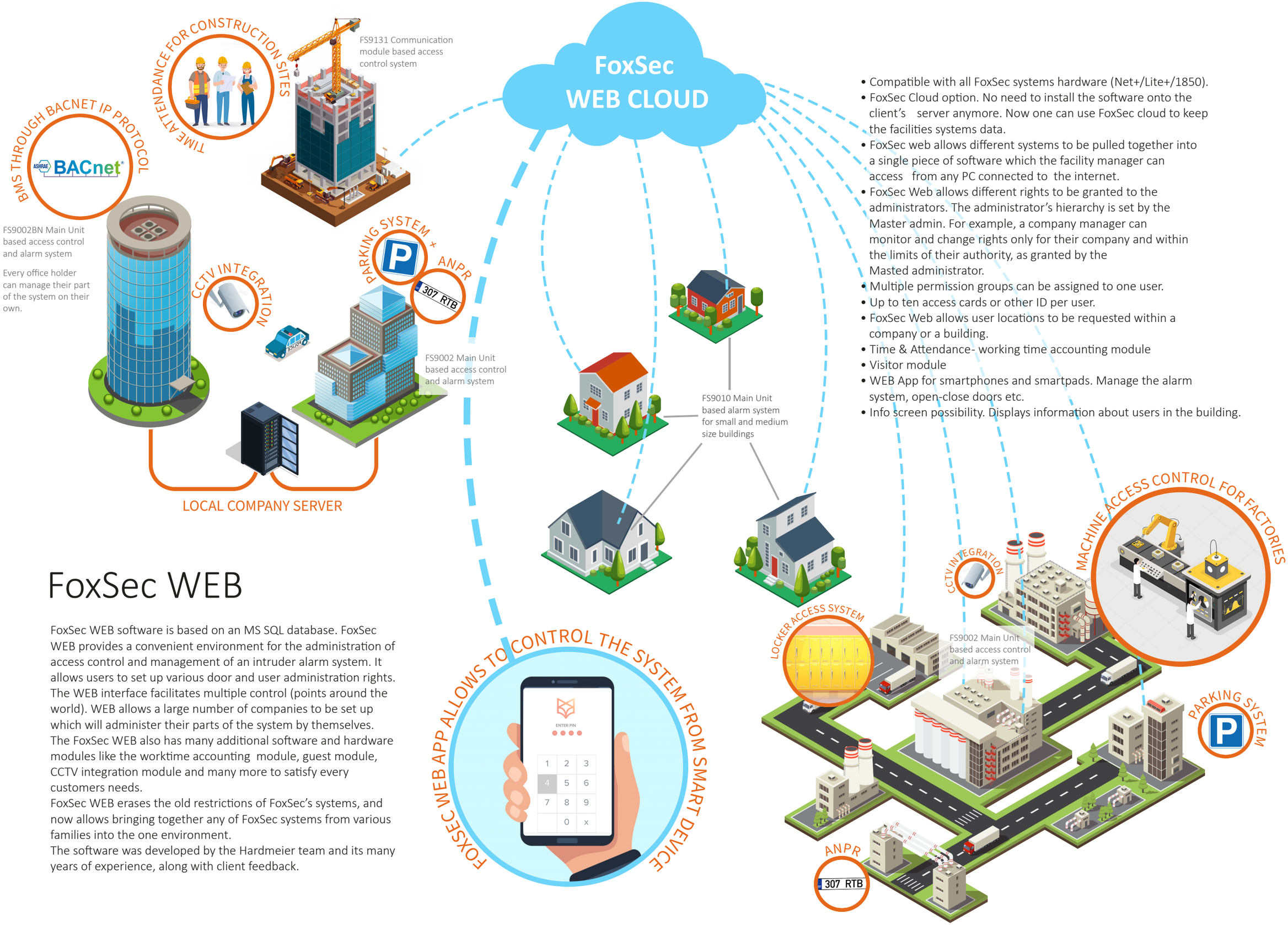
FoxSec Smart Pass system is a local intelligent access control system with up to 4 remote control subsystems.

Page 11

Integrations

Integrations and other FoxSec solutions

Page 13

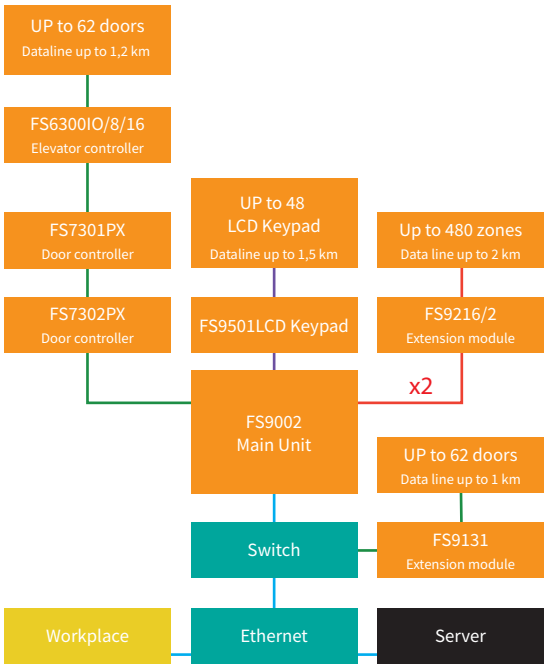


FoxSec WEB

FoxSec WEB software is based on an MS SQL database. FoxSec WEB provides a convenient environment for the administration of access control and management of an intruder alarm system. It allows users to set up various door and user administration rights. The WEB interface facilitates multiple control (points around the world). WEB allows a large number of companies to be set up which will administer their parts of the system by themselves. The FoxSec WEB also has many additional software and hardware modules like the worktime accounting module, guest module, CCTV integration module and many more to satisfy every customers needs.
FoxSec WEB erases the old restrictions of FoxSec's systems, and now allows bringing together any of FoxSec systems from various families into the one environment.
The software was developed by the Hardmeier team and its many years of experience, along with client feedback.

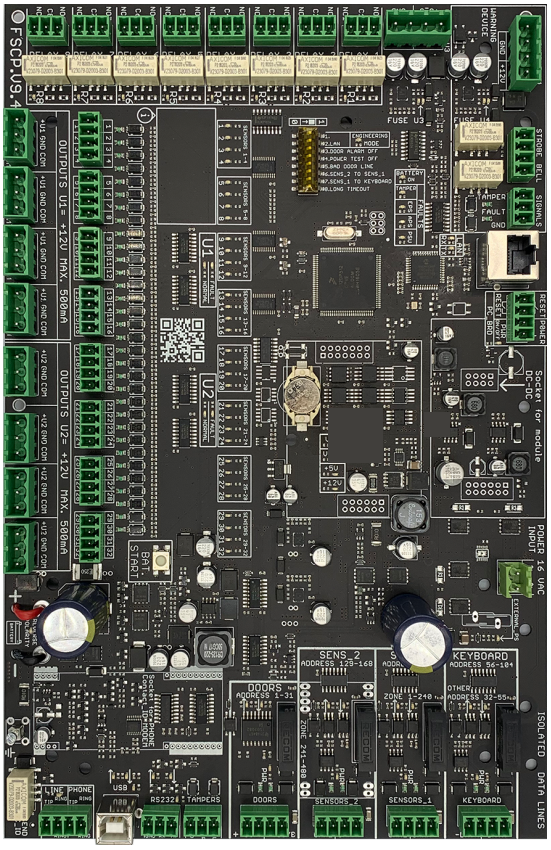
- Compatible with all FoxSec systems hardware (Net+/Lite+/1850).
- FoxSec Cloud option. No need to install the software onto the client's server anymore. Now one can use FoxSec cloud to keep the facilities systems data.
- FoxSec web allows different systems to be pulled together into a single piece of software which the facility manager can access from any PC connected to the internet.
- FoxSec Web allows different rights to be granted to the administrators. The administrator's hierarchy is set by the Master admin. For example, a company manager can monitor and change rights only for their company and within the limits of their authority, as granted by the Masted administrator.
- Multiple permission groups can be assigned to one user.
- Up to ten access cards or other ID per user.
- FoxSec Web allows user locations to be requested within a company or a building.
- Time & Attendance- working time accounting module
- Visitor module
- WEB App for smartphones and smartpads. Manage the alarm system, open-close doors etc.
- Info screen possibility. Displays information about users in the building.

FoxSec Net+ is an integrated security and access control system designed for medium and large projects. Each FS9002 main unit is capable of securing up to 240 areas, up to 790 zones (32 on main board, expandable to 480 zone inputs and 62 door sensors on main board, expandable up to 310 door sensors) and controlling up to 310 doors.
The FoxSec® FS9002 is designed for installations in commercial complexes and high-security installations. FoxSec® FS9002 can communicate with building management systems via BACnet (optional) and can send events via IP Contact ID via Ethernet, or Contact ID via telephone line. All programming of FoxSec® FS9002 is done through FoxSecConf configuration software. FoxSecConf is designed for use by the installer (system programming). The FoxSec® FS9002 is EN50131 Grade 3 compatible.



FS9002 MAIN UNIT

- 32 alarm zone inputs, expandable up to 480 zones via expansion modules + up to 62 access door sensors, expandable up to 310 door sensors
- up to 240 security areas
- 8 programmable relay outputs, expandable up to 1000 relay outputs with expansion modules
- Up to 4 security main panels or door data-line modules can be linked over Ethernet adding up to 32 areas and 32 outputs from other panels or up to 310 doors
- 310 doors with over Ethernet linked FS9131 door data-line modules (up to 31 2-door controllers on data-line) with independent users database memory and events and hardware level integration
- EEPROM memory up to 5760 security users
- Independent realtime 100 alarm and 100 door events buffer
- 48 keypads (built-in reader optional)
- 4 or 6 digit PIN or card+PIN authorisation
- 5760 arming users with up to 38 personal areas and 60 arming time zones
- 24 000 security events
- Preprogram 48 holidays (areas will stay armed and doors locked)
- 80 schedules for different programs (arming, disarming, set relay, etc.)
- 480 zones have anti-masking
- 480 zones have adjustable EOL values
- Warning device output and inputs
- Zone status LED indication
- BACnet protocol (optional)
- Real-time clock
- 3 enclosure tamper inputs
- 10/100 ethernet port
- USB port for configuration
- 1 optically isolated keyboard and output expansion modules data line (length up to 1.5 km)
- 2 optically isolated zone input expansion modules data lines (length up to 2 km each)
- 1 optically isolated access door controllers data line (up to 31 2-door controllers and length up to 1,2 km)
- Special hardware level IP UDP protocol for sending commands to expansion modules and door controllers
- All data lines have ESD protection circuits
- Battery reverse polarity protection
- Battery capacity measurement
- 3A power supply with battery charger
- Contact ID phone line modem (optional)
- IP Contact ID alarm signalling over Ethernet
- 4 controlled power outputs 12V
- Extra power output 12V 24W for web server (optional)
- Grade 3 compatible enclosure (optional)



ACCESS CONTROLLERS

FS7301/FS7302 DOOR CONTROLLER
- One door (two readers) / two doors (four readers)
- Up to 1,850 card users and 2,000 recent events in the controller memory
- 1 programmable relay output / 2 programmable relay outputs
- 2 Wiegand / 4 Wiegandi inputs
- Anti-passback and more than 50 other special functions
- Optical isolation
- Metal case 290 x 280 x 80 mm
- Power supply unit 12VDC, 2A/3A
- Lock 12VDC/24VDC
- Battery control

FS7302ECO DOOR CONTROLLER
- 2 doors, up to 4 readers
- Up to 1850 card users and 2,000 events in the controller memory
- 4 Wiegandi input (4 x 26-bit Wiegand)
- 2 programmable additional relay outputs
- Power voltage 12VDC
- Real time clock
- 10 schedules per door
- Card mode, card + PIN mode, locked mode, open mode, only PIN mode

FS8301/FS8302 DOOR CONTROLLER
- One door (two readers) / two doors (four readers)
- Up to 7600 card users and 2,000 recent events in the controller memory
- 1 programmable relay output / 2 programmable relay outputs
- 2 Wiegand inputs / 4 Wiegand inputs
- Anti-passback and more than 50 other special functions
- Optical isolation
- Metal case 290 x 280 x 80 mm
- Power supply unit 12VDC, 2A/3A
- Lock 12VDC/24VDC
- Battery control

FS7311/FS8311 TURNSTILE CONTROLLER
- ENTRY / EXIT
- Up to 1,850 or 7600 card users and 2,000 recent events in the controller memory
- 2 programmable relay outputs
- 2 Wiegand inputs
- Anti-passback
- Optical isolation
- Metal case 290 x 280 x 80 mm
- Power supply unit 12VDC, 2A
- Battery control

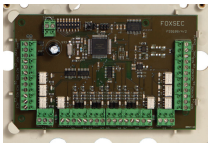
FS6300IO/8 AND FS6300IO/16 ELEVATOR CONTROLLER
- Eight floors / sixteen floors
- Up to 1,850 or 7,600 card users and 2,000 recent events in the controller memory
- 1 Wiegand input
- Optical isolation
- Metal case 290 x 280 x 80 mm
- Power supply unit 12VDC, 2A
- Battery control

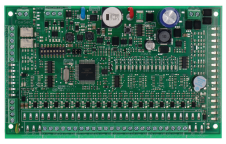
EXTENSION MODULES

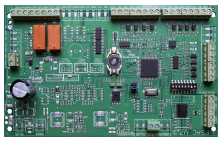
FS9108/2 AND FS9108/8 EXTENSION MODULE
- 8 zone inputs
- Two or eight programmable relay outputs (12V/0,5A / NO/NC)
- Power voltage 12VDC
- Adjustable EOL (end of line resistance)
- ABS plastic case 155 x 230 x 55 mm

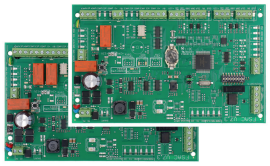
FS9216/2 AND FS9216/8 EXTENSION MODULE
- 16 zone inputs
- 2 / 8 programmable relay outputs (12V / 0,5A / NO/NC)
- Adjustable EOL (end of line resistance)
- Metal case 290 x 280 x 80 mm
- Power supply unit 12VDC, 0,5A
- Battery control

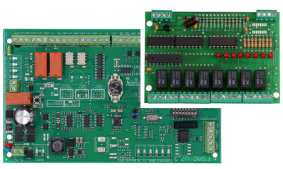
FS9316/2 AND FS9316/8 EXPANSION MODUL
- Sixteen zone inputs
- Two or eight relay outputs
- Optional Fiber optic data-line up to 20 km
- 12V sensor power output with short circuit protection
- Temperature sensor input up to 10 m cable lenght
- Beeper for easy module identification
- Metal case 290 x 280 x 80 mm
- Battery status and fault indicators
- Battery backup capacity test and reverse polarity protection with indication
- Power supply unit 12VDC, 0,5A

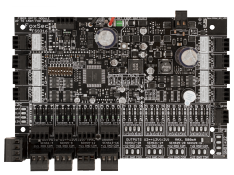

FS9108/2 AND FS9108/8 EXTENSION MODULE


FS9216/2 AND FS9216/8 EXTENSION MODULE


FS7302ECO DOOR CONTROLLER


FS7301/FS7302 AND 8301/8302 DOOR CONTROLLER


FS6300IO/8 AND FS6300IO/16 ELEVATOR CONTROLLER

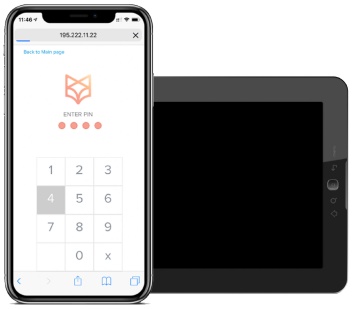

FS9316/2 AND FS9316/8 EXPANSION MODUL

KEYPADS AND REGISTRARS

FS9501/FS9502 OLED KEYPADS
- 2 x 20 character OLED keyboard with back lighting
- Activating and deactivating security in specific areas, changing the PIN number, displaying and accepting alarms, temporary restraining of users, sensors or expansion modules, a 100-keypad event memory
- Fast and friendly interface
- Built-in proximity reader (optional)
- Silicone buttons with back lighting
- Power voltage 12VDC
- Operating temperature between 0 –+ 40ºC (without evaporation), IP55, 170 x 125 x 25mm



FOXSEC WEB APP
FoxSec App is alarm system management software designed for users comfort and mobility. It operates on a smart device, and replaces the need for the stationary alarm keypad. Now you can arm or disarm your facility right from your pocket and do much more. At the same time FoxSec APP can operate as a wall mounted keypad. Read more under the „Softwares“ section...

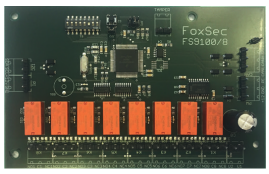


ACCESSORIES

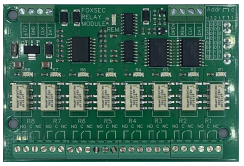
FS9131 COMMUNICATION MODULE
- Up to 31 door controllers (compatible with FoxSec Monitoring and FoxSec Web software)
- Over-voltage protection



FS9100/8 OUTPUT MODULE
- Eight programmable relay outputs (12V/5A / NO/NC)
- Metal case 290 x 280 x 80 mm
- Power supply unit 12VDC, 2.5A
- Battery recharging



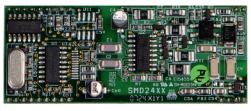
FS9100/8.8 OUTPUT EXPANDER MODULE
- Eight programmable relay outputs (12V/0.5A / NO/NC)
- Power Voltage 12VDC
- PCB 90 x 65 x 10 mm



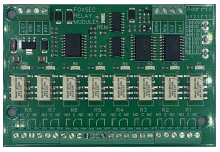
FS9135 ISOLATOR/BUS REPEATER
- Makes the data line twice as long
- PCB 90 x 55 x 10 mm



FS9140 CONTACT ID COMMUNICATOR (PHONE LINE)
- Up to 240 Contact ID accounts
- Up to 98 areas
- Up to 999 users



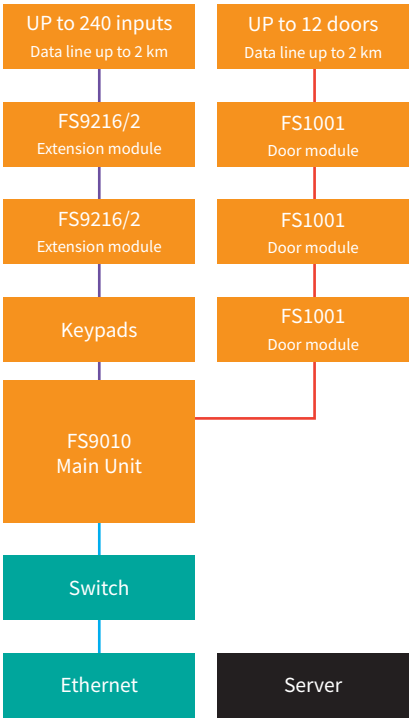
FS6100IO/8 LIFT MODULE
- Eight floors / sixteen floors
- PCB 90 x 65 x 10 mm

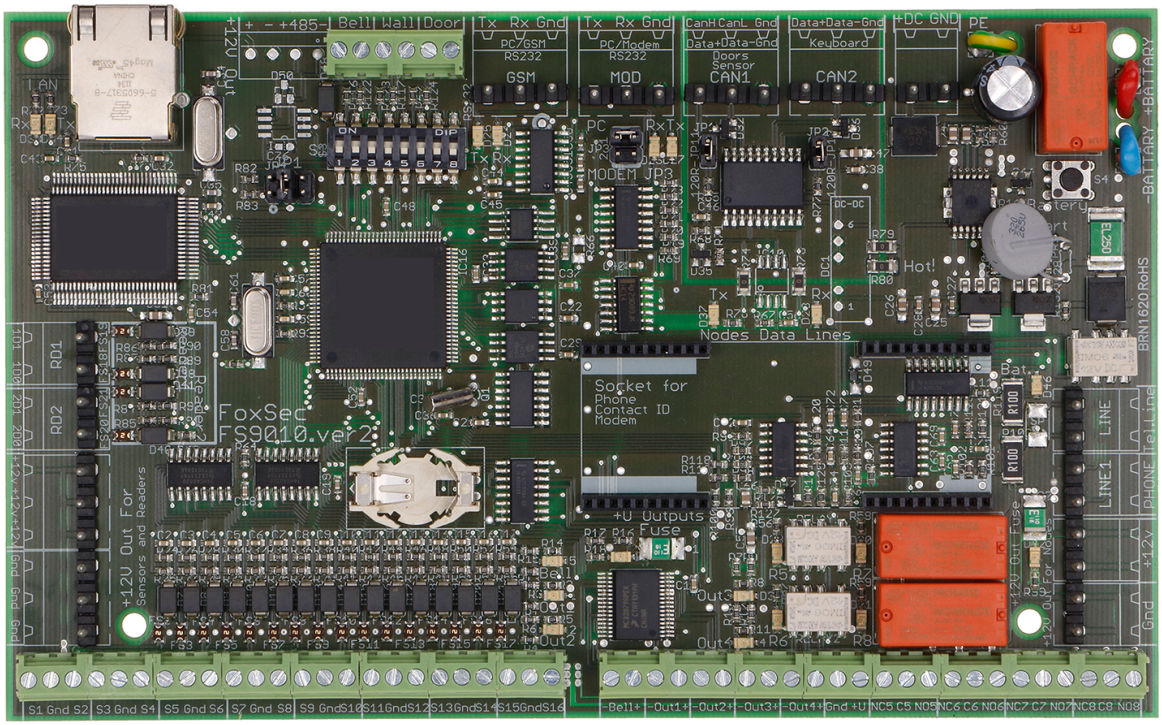


FoxSec Lite+ is an integrated security and access control system. The FS9010 central control panel features sixteen onboard zones, nine PGMs, ETHERNET communication, and two Wiegand inputs (two doors). Each FS9010 control panel can be extended to control up to 240 security zones using extension modules. It can control up to 12 access points including those with Assa Aperio wireless locks. Up to 48 LCD keypads can be connected to a control panel. All communication with the system software is encrypted.

FS9010 MAIN UNIT

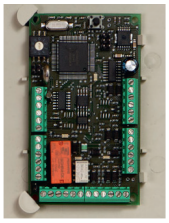
- Sixteen zone inputs (expandable up to 240) / 240 security areas
- 4 relays + 4 transistor relays (expandable up to 240) + 1 bell output
- 2 x 26bit Wiegand - two doors (expandable up to 12 doors)
- Optically-isolated data lines (optional)
- Built-in Ethernet data communication
- FRAM and EEPROM memory, data-maintaining for ten years in case of power loss
- Up to 2,800 users in memory
- Up to 3,500 access control logs + 2,500 alarm logs in memory
- Battery control
- Phone Contact ID or GSM modem (optional)
- Power supply unit 12VDC, 1,7A
- Metal case 300 x 220 x 75 mm





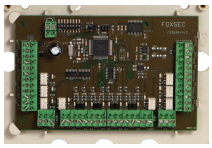
DOOR MODULES

FS1001 DOOR MODULE
- 2 x 26 bit Wiegand inputs
- Two relay outputs
- One door sensor input
- One door button input
- Memory of four SOS proximity cards
- Power voltage 12VDC
- ABS plastic case 155 x 230 x 55 mm

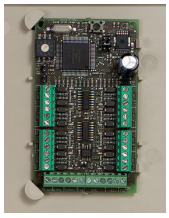

FS1001 DOOR MODULE

EXTENSION MODULES

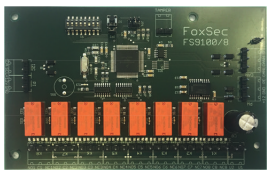
FS9108/2 AND FS9108/8 EXTENSION MODULE
- 8 zone inputs
- Two or eight programmable relay outputs (12V/0,5A / NO/NC)
- Power voltage 12VDC
- Adjustable EOL (end of line resistance)
- ABS plastic case 155 x 230 x 55 mm


FS9108/2 AND FS9108/8 EXTENSION MODULE

FS9116/0 EXTENSION MODULE
- Sixteen zone inputs
- Two programmable relay outputs (24V/0.5A / NO/NC)
- Power voltage 12VDC

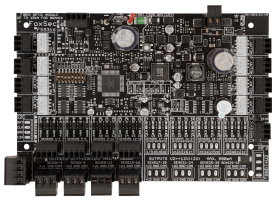

FS9116/0 EXTENSION MODULE

FS9216/2 AND FS9216/8 EXTENSION MODULE
- 16 zone inputs
- 2 / 8 programmable relay outputs (12V/0,5A / NO/NC)
- Adjustable EOL (end of line resistance)
- Metal case 290 x 280 x 80 mm
- Power supply unit 12VDC, 0,5A
- Battery control



FS9100/8 OUTPUT MODULE

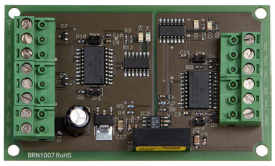
FS9316/2 AND FS9316/8 EXPANSION MODULE
- Sixteen zone inputs
- Two or eight relay outputs
- Optional Fiber optic data-line up to 20 km
- 12V sensor power output with short circuit protection
- Temperature sensor input up to 10 m cable lenght
- Beeper for easy module identification
- Metal case 290 x 280 x 80 mm
- Battery status and fault indicators
- Battery backup capacity test and reverse polarity protection with indication
- Power supply unit 12VDC, 0,5A


FS9316/2 AND FS9316/8 EXPANSION MODUL

ACCESSORIES

FS9100/8 OUTPUT MODULE
- Eight programmable relay outputs (24V/5A / NO/NC)
- Metal case 290 x 280 x 80 mm
- Power voltage 12VDC, 2,5A
- Battery recharging

FS9135 ISOLATOR/BUS REPEATER
- Makes the data line twice as long
- Power voltage 12VDC
- PCB 90 x 55 x 10 mm


FS9135 ISOLATOR/BUS REPEATER

FS9140 CONTACT ID COMMUNICATOR (PHONE LINE)
- Up to 240 Contact ID accounts
- Up to 98 areas
- Up to 999 users


FS9140 CONTACT ID COMMUNICATOR

FoxSec Smart Pass access control system was developed to meet the needs of small and medium-sized businesses in order to monitor the movement of people within the operating company's grounds.

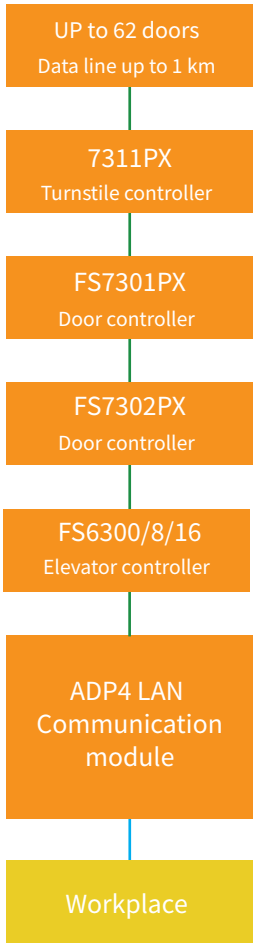
FoxSec Smart Pass access control system enables a client to gain an overview of who, where, and when in terms of people movements.

With the help of the FoxSec Smart Pass access control system it is also possible to manage the movements of employees on business premises and on the general grounds, register arrivals to and departures from work, and more. The system creates its own database on all movements. It allows users to create detailed statistics about the card users and generate various reports which are based on received data.

Considering its target group, the FoxSec Smart Pass access control system allows up to 1,850 users and 240 different access points and/or lifts. The system's flexible structure allows users to connect into the system itself and also up to four access points in different geographical locations.

In accordance with the client's requirements, it is possible to set up all access points so that they are controllable by the card readers on one side alone as well as on both sides. It is also possible to add new access points to the system during operation, which assures the constantly growing levels of access control that are needed by developing companies.

The FoxSec Smart Pass access control system can easily be integrated into door phono and surveillance systems, lift and gate automation, and other similar systems.



ADP4 LAN COMMUNICATION MODULE
- Up to 31 door controllers
- Over-voltage protection

FS7302ECO DOOR CONTROLLER
- 2 doors, up to 4 readers
- Up to 1850 card users and 2000 recent events in the controller memory
- 4 Wiegand input (4 x 26 bit Wiegand)
- 2 programmable additional relay outputs
- Power voltage 12VDC
- Real time clock
- 10 schedules per door
- Card mode, card + PIN mode, locked mode, open mode, only PIN mode

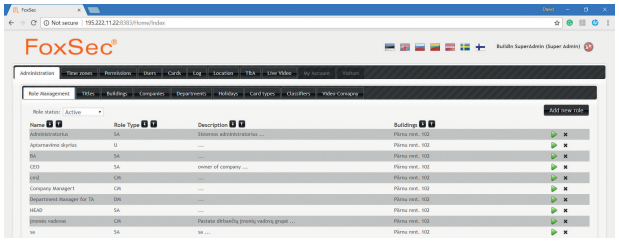
FS7301/FS7302 DOOR CONTROLLER
- One door (two readers) / two doors (four readers)
- Up to 1,850 card users and 2,000 recent events in the controller memory
- 1 programmable relay output / 2 programmable relay outputs
- 2 Wiegand / 4 Wiegand inputs
- Anti-passback and more than 50 other special functions
- Optical isolation
- Metal case 290 x 280 x 80 mm
- Power supply unit 12VDC, 2A/3A
- Lock 12VDC/24VDC
- Battery control

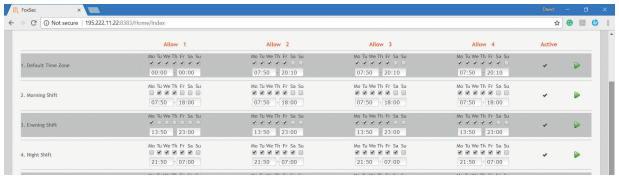
FS7311/FS8311 TURNSTILE CONTROLLER
- ENTRY / EXIT
- Up to 1,850 or 7600 card users and 2,000 recent events in the controller memory
- 2 programmable relay outputs
- 2 Wiegand inputs
- Anti-passback
- Optical isolation
- Metal case 290 x 280 x 80 mm
- Power supply unit 12VDC, 2A
- Lock 12VDC/24VDC
- Battery control

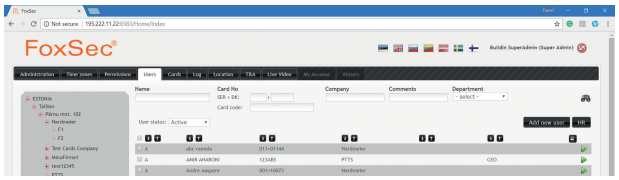
FS6300IO/8 AND FS6300IO/16 ELEVATOR CONTROLLER
- Eight floors / sixteen floors
- Up to 1,850 or 7,600 card users and 2,000 recent events in the controller memory
- 1 Wiegand input
- Optical isolation
- Metal case 290 x 280 x 80 mm
- Power supply unit 12VDC, 2A
- Battery control

FoxSec WEB Software

- Compatible with all FoxSec systems hardware (FoxSec 9002, Foxsec 9010 and FoxSec 1850 systems).
- FoxSec Cloud option. No need to install the software onto the client's server anymore. Now one can use FoxSec cloud to keep the facilities system data.
- FoxSec web allows different systems to be pulled together into a single piece of software which the facility manager can access from any PC connected to the internet.
- FoxSec Web allows different rights to be granted to the administrators. The administrator's hierarchy is set by the Master admin. For example, a company manager can monitor and change rights only for their company and within the limits of their authority, as granted by the Master administrator.
- Multiple permission groups can be assigned to one user.
- Up to ten access cards or other ID per user.
- FoxSec Web allows user locations to be requested within a company or a building.
- Time & Attendance- working time accounting module.
- Visitor module.
- WEB App for smartphones and smartpads. Manage the alarm system, open-close doors etc.

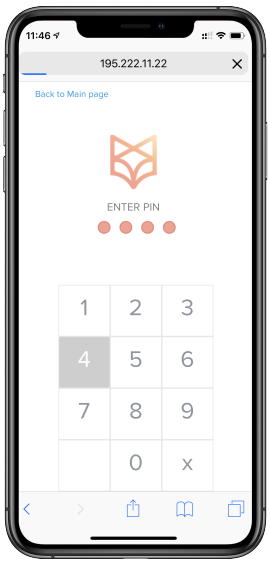






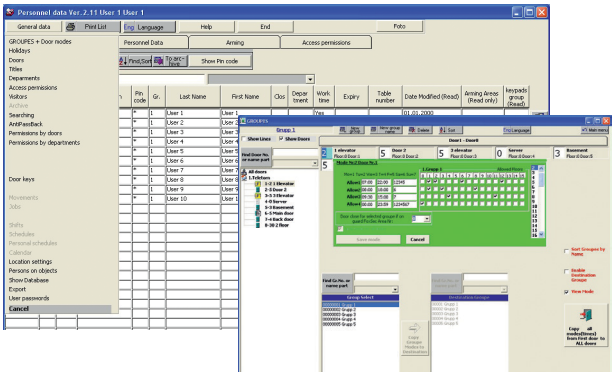
FoxSec WEB APP

FoxSec App is software designed for managing the alarm system. It helps to increase users comfort and mobility. The App operates on a smart device and replaces the need for the stationary alarm keypad fixed on a wall. Now users can arm or disarm their facility right from their pocket and do much more.
At the same time FoxSec APP can operate as a stationary keypad inside the smart tab mounted on a wall.

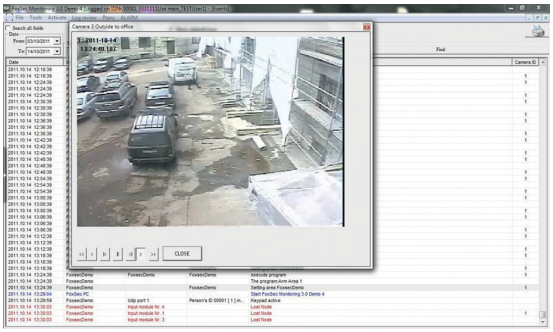


- Fits for individual or general use
- View doors status
- Change access control modes:
  - Open Door for (4 seconds)
  - Access denied for everyone
  - Access granted for everyone
  - Card mode
  - Card + PIN mode
- Arm/disarm areas
- Arm/disarm zones
- Change own PIN
- View alarms
- Login by NFC card
  - Log in to the app using Mifare access card (Optional. Android only)
  - Site managers app can be used as a log in terminal for employees. Every employee shows card to managers WEB App to start or stop the work time accounting.
- Location positioning when logging in or logging out Time and Attendance module.
- Configure the app individually for every device and user.

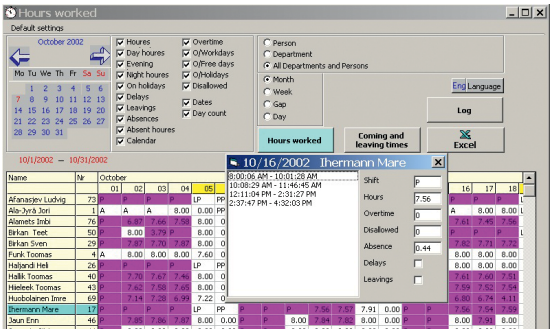
FoxSec Net+ Access
is software that manages access control systems. It allows users to quickly obtain a general overview of who, where, and when in terms of movement within the site being monitored. All standard access control functions areas are available (anti-passback, sluice, etc). For the FoxSec Access NET+ whole system configuration and management, FoxSec Cards and FoxSec Events is part of the NET+ Access software package.



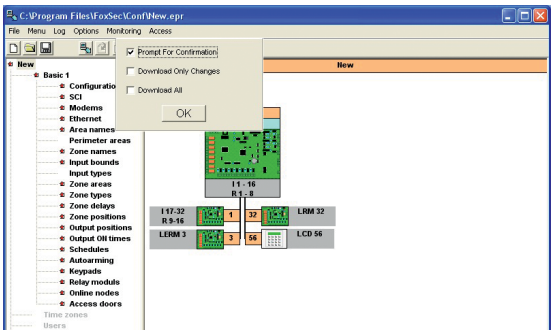
FoxSec Net+ Monitoring
is software which allows users to obtain an overview of the site being monitored. The software user can view graphical floor plans, manage access doors, can activate the security mode in zones and areas, can review events and the associated video records, and can manage outputs from the relay modules.



FoxSec Net+ Time and Attendance
is a time attendance software module. Time attendance is either calculated on the basis of the door passage data or from entries in the time attendance registrar.



FoxSec CONF
is system configuration software. The setup process for hardware, software, and integration configuration settings such as FoxSec Monitoring graphical floor plans, CCTV integration, etc, is created using FoxSec Conf software.



INFORMATION SCREEN (WEB)
- Shows who is in the facility and when the person arrived
- Can be used with most smart devices



CCTV INTEGRATION (WEB)
Integration with HIT VMS Software
- Live playback
- Playback video from archive
- Integration with Hikvision and Dahua NVR

Integration with Axxon Software
- Live playback
- Playback video from archive



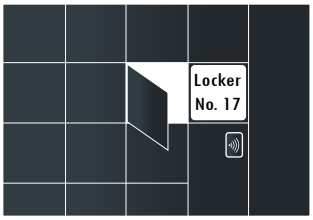
APERIO (WEB / NET+ / LITE+)
- Battery powered Aperio device upgrades can be fitted to most mechanical lock cases
- Simple to install- no wiring to the door
- Provides card reader and wireless transceiver
- More eco to run and less work required to add any doors into the system



CAR NUMBER PLATE RECOGNITION (WEB / NET+ / LITE+)
- Integrated car registration numbers with FoxSec access control application
- The 'Automatic Number Plate' feature works just like regular access cards
- Car registration numbers are inserted into software in the same way as access card numbers
- ANPR engine on board with worldwide countries; PC needed only for configuration work
- Range of action: 3.5-25m
- Waterproof IP66 housing



LOCKER SYSTEM (WEB)
- Individual locker for the certain user
- Every time user gets random locker for assigned time period
- Displays information on a screen



HR INTEGRATION (WEB)
Import new users and synchronize data every night from HR (LDAP or CSV) to FoxSec users database



SPORTS CLUBS / SWIMMING POOL ACCESS / TICKETING INTEGRATION (WEB / NET+ / LITE+)
- Same card readers used for employees and guests
- Cash register directly pulls information from all card readers
- Allows users to create ten day or thirty day passes, or three months or one year membership, etc
- Internet booking system, allowing customers to register themselves for group training, and administrator has the ability to check reservations and the use of rooms
- Local information terminal



THEATRE MANAGEMENT (WEB)
Planning, information handling and digital work processes for performing Theatres, Opera houses and Concert organisations.



BACNET PROTOCOL (WEB / NET+ / LITE+)
- Protocol for the integration of FoxSec systems with the building automation system
- Foxsec Main panel BACnet Object

BACnet

CAR PARK COUNT (NET+ / 1850)
- Shows the number of free parking spaces
- Allows IN / OUT registration
- Synchronisation with FoxSec Access NET+ database
- Area of use: car park



COFFEE CUPS COUNTING (NET+ / 1850)
- Counts the coffee cups used for each user
- Export reports to Excel



RUBBISH CONTAINER ACCESS SYSTEM (WEB / NET+ / LITE+)
- Allows the waste disposal company to administer multiple systems through the network
- Shows the status of rubbish bins and sends an alarm to the waste disposal company when, for example, the bin is full or the temperature is too high



ELECTROSTATIC DISCHARGE TESTING (NET+ / WEB)
- Allows access after the electrostatic discharge test is passed

