



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 Estonia following 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.

FoxSec WEB

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FoxSec WEB is a web solution with MS SQL as its basis. The software provides a convenient environment for the administration of access control and management systems. It allows various door and user administration rights to

be set up. The WEB interface facilitates multiple control (and a combination of 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.

FoxSec NET+

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FoxSec NET+ is an integrated security and access control system. It comprises a single high-reliability system of security and access control. The system can manage more than hundred central security control panels online,

ten thousand zones and up to four hundred fifty access points with Net+ software and unlimited number of access points with FoxSec WEB software.

FoxSec LITE+

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FoxSec Lite+ is an integrated security system which was developed with FoxSec NET+ as a base. Lite+ central security control panel can handle up to 128 security zones and 12 access points with Lite+ software. FoxSec web software

allows to build up a system with multiple number of Lite+ main panels. FS9010 security control panels are able to fully cooperate with the FS9000 security control panel in WEB software.

FoxSec 1850

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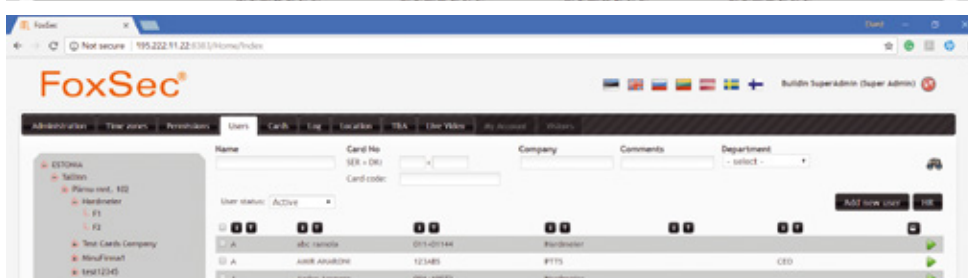
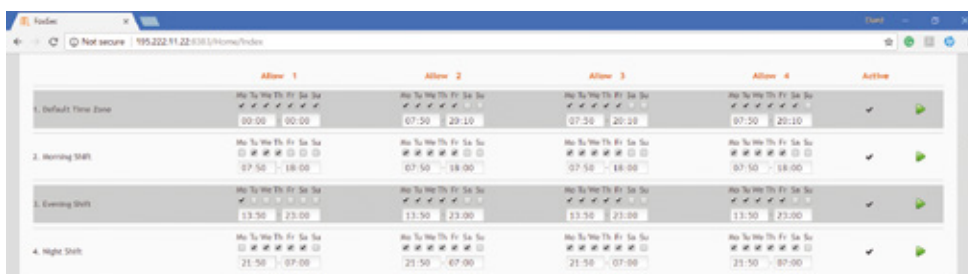
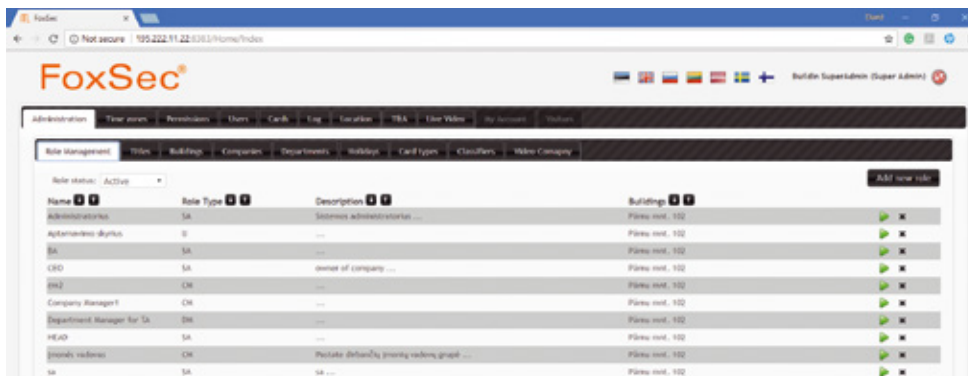
FoxSec 1850 is a local intelligent access control system with up to four buildings.

Integrations

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FoxSec WEB software is based on MS SQL database. FoxSec WEB provides a convenient environment for the administration of access control and managing an intruder alarm system. It allows users to set up various door and user administration rights. The WEB interface facilitates multiple control (a combination of 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 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).
- No need to install the software onto the clients PC.
- FoxSec web allows different systems to be managed from any computer, even if sites are located in different time zones.
- FoxSec Web allows different rights to be granted to administrators. 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 major administrator.
- Several 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.

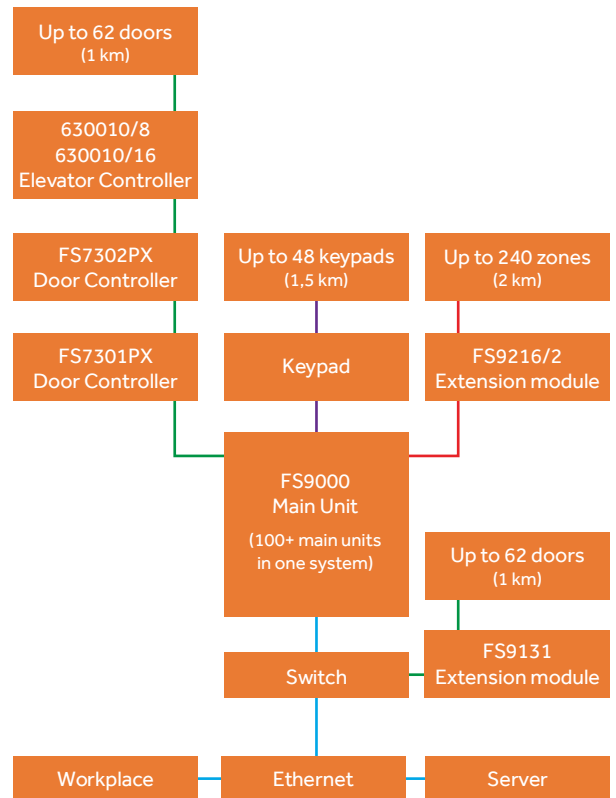


FoxSec NET+ is an integrated security and access control system. It comprises a single high-reliability system of security and access control. The system can manage more than hundred central security control panels online, ten thousand zones and up to four hundred fifty access points with Net+ software and unlimited number of access points with FoxSec WEB software.

The FS9000 central control panel features sixteen zones, eight PGMs, and ETHERNET communication. The optical isolation of data lines in the central control panel protects the system from breakdowns.

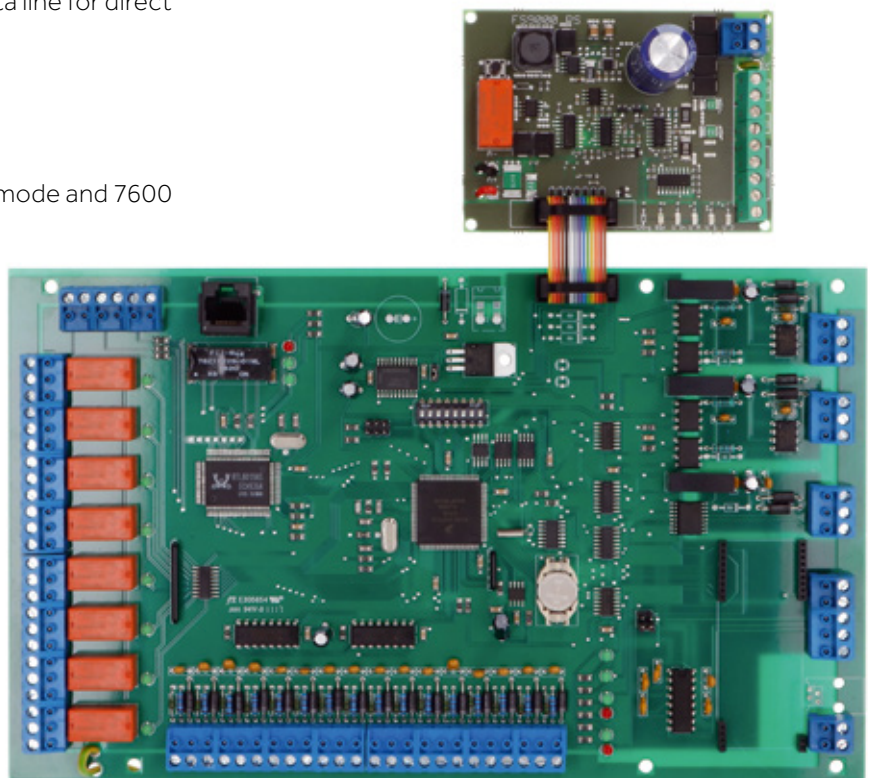
Each FS9000 control panel can be extended to control up to 240 security zones using extension modules. Through a direct connection, one panel can control 31 door controllers (62 access points). Door controllers have on-board memory; data line optical isolation is arranged inside each door controller.

The range of available controllers includes one-door and two-door controllers with different memory capacities. Up to 48 LCD keypads can be connected to a control panel. All communication with the system software is encrypted.



FS9000 MAIN UNIT

- Sixteen zone inputs (expandable to up to 240 inputs) / 240 security areas
- Eight programmable relay outputs (24V/ 5A /NO/NC) (expandable to up to 240)
- Up to 48 LCD keypads
- Optically isolated data lines
- Built-in 10Mb Ethernet data communication
- Optical isolated RS485 or RS232 data line for direct connection to 31 door controllers (FS7301, FS7302, FS8301, FS8302)
- FRAM and EEPROM memory
- A total of 2,880 arming users and 2,500 event memory
- Up to 32000 access users in online mode and 7600 users in offline mode
- Metal case 400 x 350 x 170
- Power supply unit 12VDC, 2A
- Battery control



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
- Anti-passback and more than 50 other special functions
- Optical isolation
- Metal case 290 x 250 x 80
- Power supply unit 12VDC, 1.4A
- Lock 12VDC/24VDC
- Battery control

FS8301/FS8302 DOOR CONTROLLER

- One door (two readers) / two doors (four readers)
- Up to 7,600 card users and 2,000 recent events in the controller memory
- 1 programmable relay output / 2 programmable relay outputs
- Anti-passback and more than 50 other special functions
- Optical isolation
- Metal case 290 x 250 x 80
- Power supply unit 12VDC, 1.4A
- 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
- Anti-passback
- Optical isolation
- Metal case 290 x 250 x 80
- Power supply unit 12VDC, 1.4A
- 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
- Optical isolation
- Metal case 290 x 250 x 80
- Power supply unit 12VDC, 1.4A
- Battery control

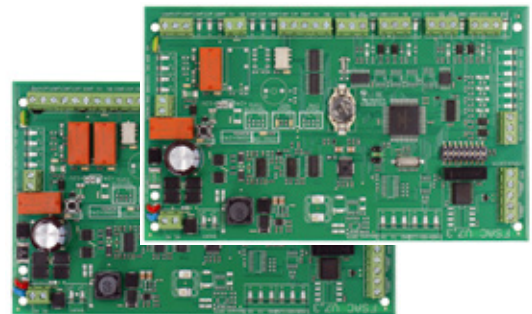
EXTENSION MODULES

FS9216/2 AND FS9216/8 EXTENSION MODULE

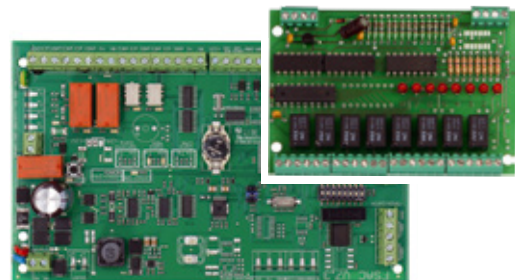
- Sixteen zone inputs
- Two programmable relay outputs (24V/0,5A /NO/NC)
- Adjustable EOL (end of line resistance)
- Metal case 290 x 250 x 80
- Power supply unit 12VDC, 1.4A
- Battery control

FS9108/2 AND FS9108/8 EXTENSION MODULE

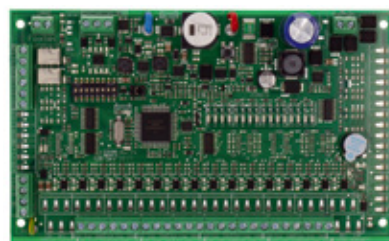
- Eight zone inputs
- Two or eight programmable relay outputs (24V/0, 5A /NO/NC)
- Adjustable EOL (end of line resistance)
- ABS plastic case 155 x 230 x 55



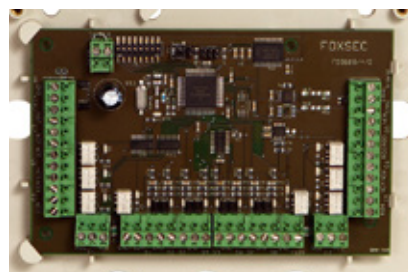
S7301/FS7302 DOOR CONTROLLER



FS6300IO/8 AND FS6300IO/16 ELEVATOR CONTROLLER



FS9216/2 AND FS9216/8 EXTENSION MODULE



FS9108/2 AND FS9108/8 EXTENSION MODULE

KEYPADS AND REGISTRATORS

FS9501/FS9502 LCD KEYPADS

- 2x20 character LCD 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
- Operating temperature between 0 –+ 40°C (without evaporation), IP55, 170 x 125 x 25mm



FS5601PX / FS5602PX

TIME ATTENDANCE REGISTRAR

- Ten main menus for jobs and movements registration
- Operating temperature between 0 –+ 40°C (without evaporation), IP55, 170 x 125 x 25mm

ACCESSORIES

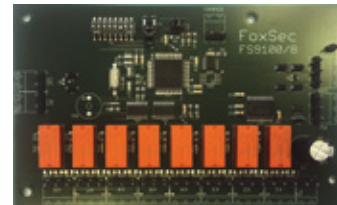
FS9131/ADP4 COMMUNICATION MODULE

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



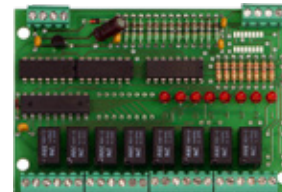
FS9100/8 OUTPUT MODULE

- Eight programmable relay outputs (24V/5A/NO/NC)
- Metal case 300 x 220 x 75
- Power supply unit 12VDC, 1.4A
- Battery recharging



FS9100/8.8 OUTPUT EXPANDER MODULE

- Eight programmable relay outputs (24V / 0.5A / NO / NC)
- 12VDC
- PCB 90 x 65 x 10



FS9135 ISOLATOR/BUS REPEATER

- Makes the data line twice as long
- PCB 90 x 55 x 10



FS9140 CONTACT ID COMMUNICATOR (phone line)

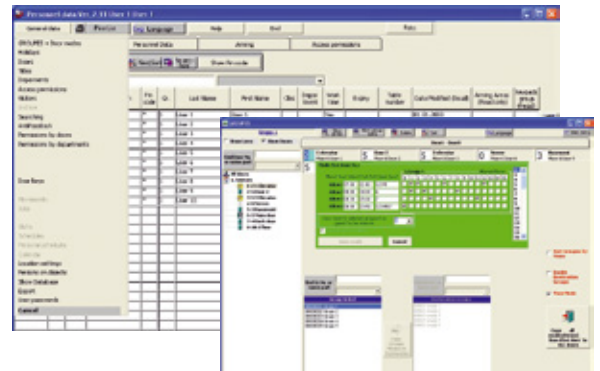
- Up to 240 Contact ID accounts
- Up to 98 areas
- Up to 999 users



SOFTWARES

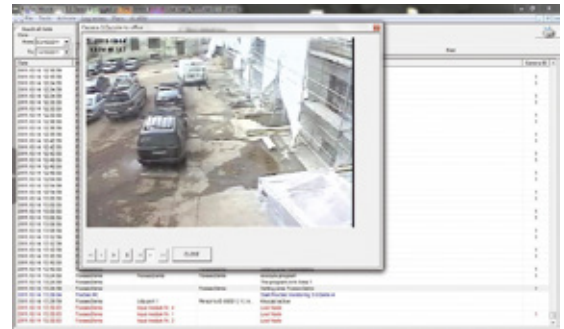
ACCESS NET+

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.



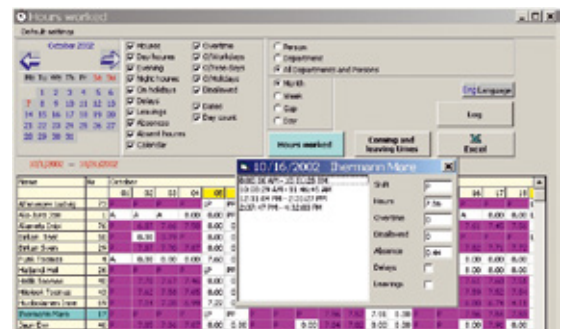
MONITORING

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.



TIME ATTENDANCE NET+

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.

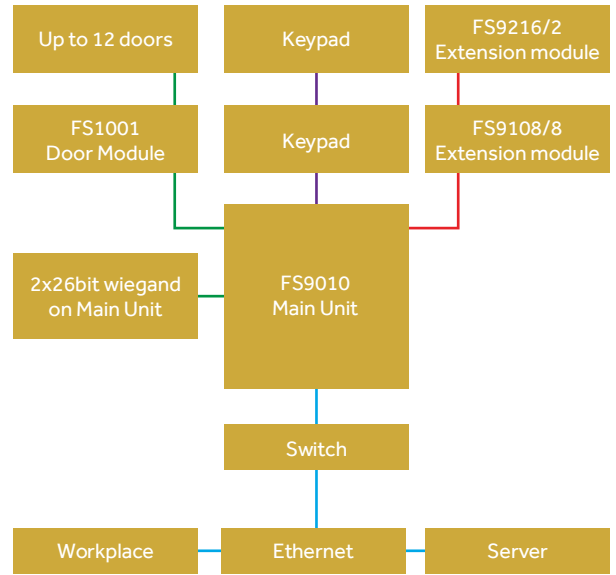


FOXSEC CONF

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.

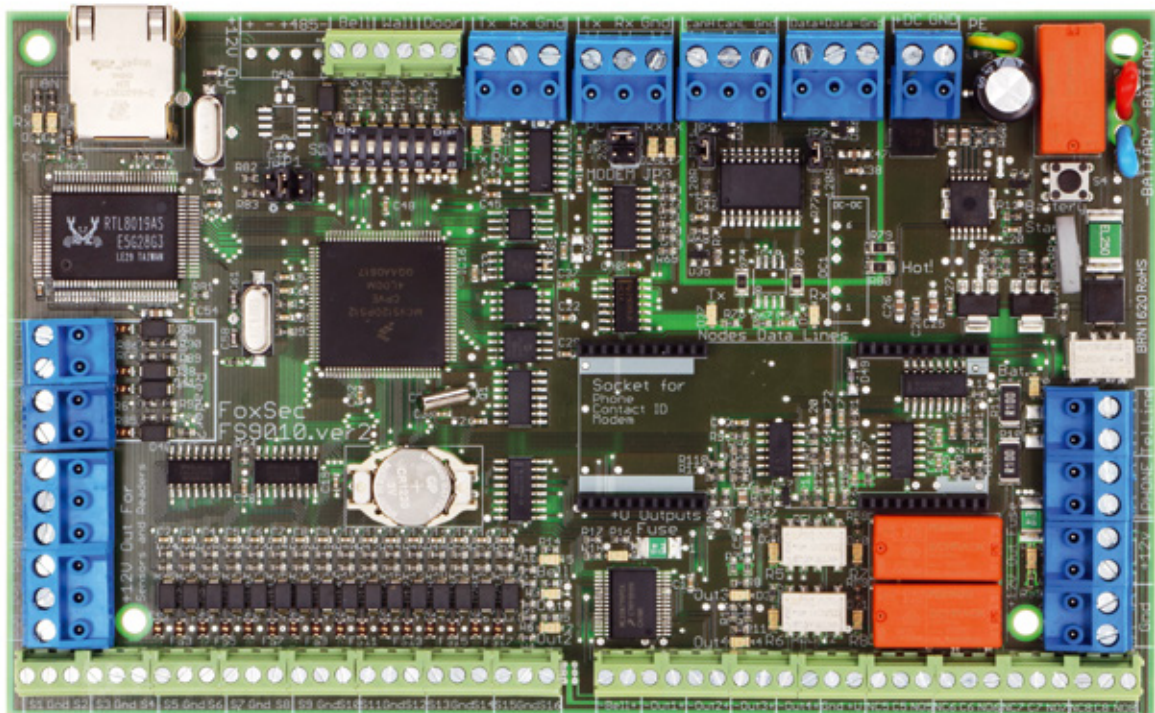


FoxSec Lite+ is an integrated security and access control system. The FS9010 central control panel features sixteen onboard zones, nine PGMs, ETHERNET communication, and two Wiegand inputs (two doors). Each FS9010 control panel can be extended to control up to 128 security zones using extension modules. It can control up to 12 access points including those with Assa Aferio 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 128) / 128 security areas
- 4 relay + 4 transistor relay (expandable up to 128) + 1 bell output
- 2x26bit wiegand (two doors)
- Optically-isolated data lines (optional)
- Built-in Ethernet data communication
- Email showing events
- FRAM and EEPROM memory, data-maintaining for ten years in case of power loss
- Up to 2,800 users in memory
- Memory up to 7,000 access control log + 2,500 alarm log
- Battery recharging
- Phone Contact ID or GSM modem (optional)
- Metal case 300 x 220 x 75





ACCESS CONTROLLERS

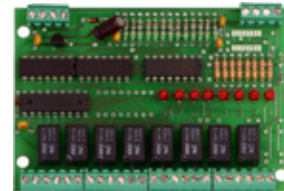
FS1001 DOOR MODULE

- 2x26 bit wiegand inputs
- Two relay outputs
- One door sensor input
- One door button input
- Memory of four SOS proximity cards
- ABS plastic case 155 x 230 x 55



FS6100IO/8 LIFT MODULE

- Eight floors / sixteen floors
- PCB 90 x 65 x 10



EXTENSION MODULES

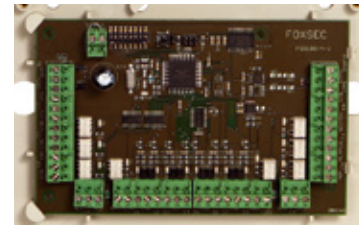
FS9116/0 EXTENSION MODULE

- Sixteen zone inputs
- Two programmable relay outputs (24V/ 0.5A /NO/NC)
- Metal case 290 x 250 x 80
- Power supply unit 12VDC, 1.4A
- Battery recharging



FS9108/2 AND FS9108/8 EXTENSION MODULE

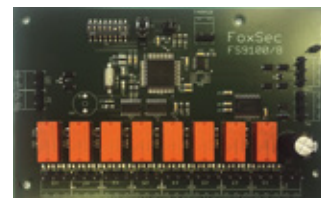
- Eight zone inputs
- Two or eight programmable relay outputs (24V/ 0.5A /NO/NC)
- Final resistance selection
- ABS plastic case 155 x 230 x 55



ACCESSORIES

FS9100/8 OUTPUT MODULE

- Eight programmable relay outputs (24V/5A/NO/NC)
- Metal case 290 x 250 x 80
- Power supply unit 12VDC, 1.4A
- Battery recharging



FS9135 ISOLATOR/BUS REPEATER

- Makes the data line twice as long
- PCB 90 x 55 x 10



FS9140 CONTACT ID COMMUNICATOR (phone line)

- Up to 240 Contact ID accounts
- Up to 98 areas
- Up to 999 users



KEYPADS

FS9501/FS9502 LCD KEYPADS

- 2x20 character LCD keyboard with back lighting
- Activating and deactivating security in areas, changing the PIN number, displaying and accepting the alarms, temporary restraining of users, sensors, or expansion modules, 100 keypad event memory
- Fast and friendly interface
- Built-in proximity reader (optional)
- Silicone buttons
- Operating temperature between 0 – + 40°C (without evaporation), IP55, 170 x 125 x 25mm



SOFTWARE

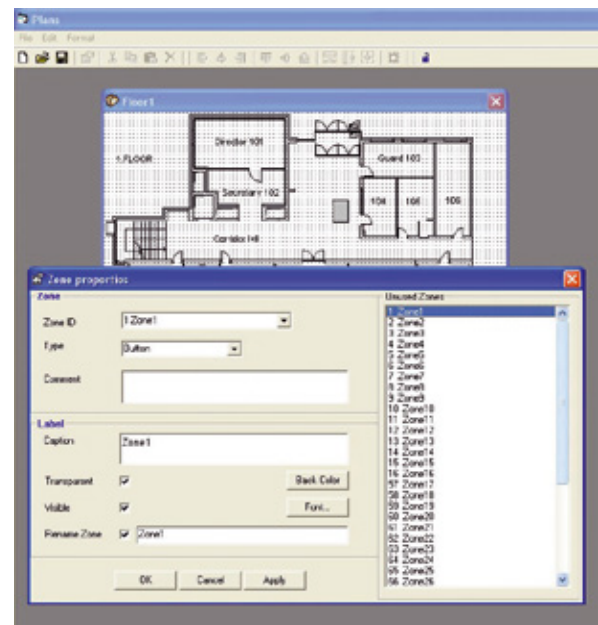
MONITORING

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 and users, 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 CONF

is system configuration software. FoxSec Conf is also used to set up the FoxSec Monitoring software and to generate graphical plans.



The FoxSec 1850 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 1850 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 1850 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 1850 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 1850 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

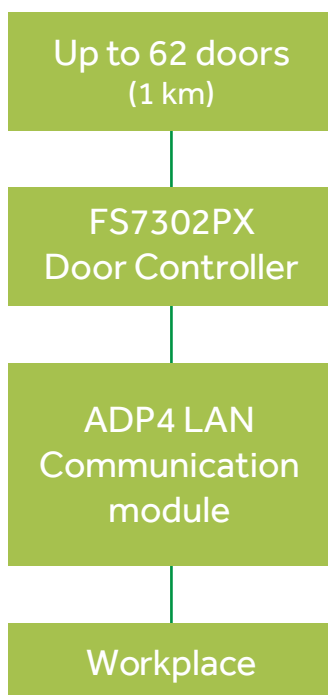
ADP4 is an Ethernet adapter which allows the economic and efficient connection of the equipment to the computer network by using an RS485 data transfer line. A 10Mb Ethernet data line is supplied (a static IP address allows for data exchange with the controllers via the internet). Data is encrypted.

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
- Anti-passback and more than 50 other special functions
- Optical isolation
- Metal case 290 x 250 x 80
- Power supply unit 12VDC, 1.4A
- Lock 12VDC/24VDC
- Battery control

FS7311 TURNSTILE CONTROLLER

- ENTRY / EXIT
- Up to 1,850 card users and 2,000 recent events in the controller memory
- 2 programmable relay outputs
- Anti-passback
- Optical isolation
- Metal case 290 x 250 x 80
- Power supply unit 12VDC, 1.4A
- Battery control



SOFTWARE

FOXSEC 1850 ACCESS

This software can be installed onto an existing computer, which provides the client with the opportunity to simultaneously handle everyday activities.

The system also works without a computer thanks to its being able to prior-record into the controller memory all modes of access and times at which they occur.

The software enables users to simultaneously control four different data lines (connected directly to a computer or computer network). Card readers can employ lower or higher levels of encryption (EM, Mifare, iCLASS, etc).

The software enables the user to choose between three different languages: English, Russian, and one of the languages selected during installation (Estonian, Latvian, Lithuanian, or Polish).

The system software is user-friendly and has a simple structure that guarantees fast learning and easy applicability. The system includes the HELP file.

THE SYSTEM ENABLES USERS TO:

- open the door (four seconds is the default but this is changeable)
- leave the door open
- activate door opening with a card (normal set-up)
- activate door opening with a card and PIN number except for the master card)
- reset (restart) the controller
- save the computer time into the controller and ask for the door status
- switch off the alarm message where the controller may be disconnected
- set-up access for a specific time period
- create up to 31 different access modes for one door
- define cards (divide, identify) for pre-selected weekdays and time periods
- identify personnel by use of the FoxSec Photo 1850 photo module
- add the time attendance accounting module, FoxSec Work Time 1850
- maintain all of the data for n times according to the client's requirements
- receive operational information on the attendance of the card holders

FOXSEC 1850 TIME ATTENDANCE

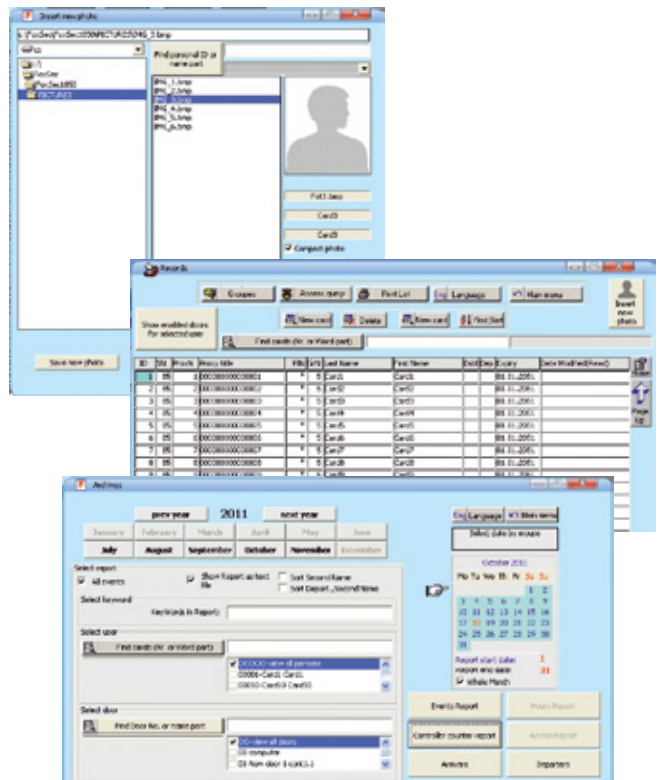
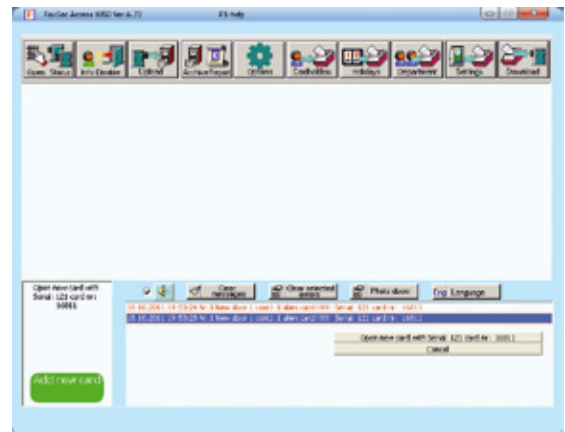
Shows an employee's working hours (hours worked as well as the time at which the employee arrives at work and departs). Create time attendance accounting reports separately for each employee or for the entire staff.

Reports can be selected as follows:

- for a department
- for an employee
- for a door

Report can be sorted in two ways:

- by department name
- by employee name



MOBILE RFID TERMINAL (NET+)

- Allows IN / OUT registrations and full information to be supplied of user name, rights, picture, car registration number
- Synchronisation with the FoxSec Access NET+ database
- Area of use: car checkpoint, payment terminal, articles registrar, etc

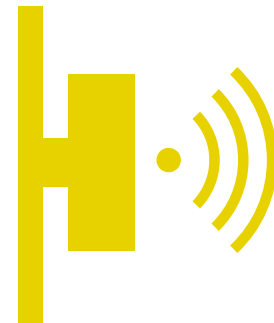
**CCTV INTEGRATION (NET+ / LITE+ / WEB)**

Integration with Divis DVR and Luxoriot Software

- Hybrid analogue / IP camera DVRs
- FoxSec Access NET+ log text on video display via POS
- Live video for FoxSec Monitoring graphical floor plans
- Video fragment from log in FoxSec Monitoring Integration with Vivotek
- Live video for FoxSec Monitoring graphical floor plans
- Video fragments from FoxSec Monitoring log

**APERIO (NET+ / LITE+ / WEB)**

- 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 economical to run and less work required to add any doors into the system

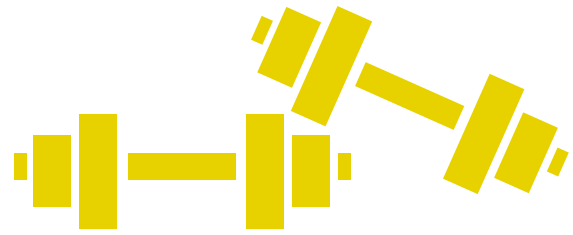
**CAR NUMBER PLATE CONTROL (NET+ / WEB)**

- 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



SPORTS CLUBS / SWIMMING POOL ACCESS / TICKETING INTEGRATION (NET+ / LITE+ / WEB)

- 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 on reservations and the use of rooms
- Local information terminal



BAC NET PROTOCOL (NET+ / LITE+)

- Protocol for the integration of FoxSec systems with the building automation system
- Foxsec Main panel BAC net Object



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 (NET+ / LITE+ / WEB)

- 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 the access after electrostatic discharge test is passed

