

FoxSec Lite+ integrated access and security system main panel

FoxSec® products provide a complete and fully featured hardware/firmware infrastructure for access and security control systems, communicating via industry standard UDP/IP protocol, over 10 Mbps Ethernet or the Internet. A 16bit processor running software in microcontroller. EEPROM and microcontroller flash memory allows program updates to be downloaded via the network or over the COM port.

The FS9010 has on-board LAN, 16 inputs, 9 outputs, 2 card reader inputs (2 doors) and can handle up to 128 security areas. It has built-in BACnet and Contact ID over IP protocol (optional Contact ID over phone line). FS9010 connects up to 128 Inputs (8 x 16in/8out or 16in/2out modules), up to 128 outputs (expander outputs and/or up to 16 output modules), up to 10 Door modules (up to 12 doors), Up to 31* ASSA/APERIO locks, up to 48 LCD and/or LED keypads (only PIN or Card+PIN). Internal memory stores up to 2880 users, last 2500 events and separate 100 last alarms. FS9010 is designed in a way that minimizes impact on corporate LANs by using only one UDP/IP address for Main panel itself, and by handling low-level transactions on the CANbus network.

* 31 access doors are maximum with door modules together

The control panel has developed in a way that it is very durable and has many different and flexible functions.

FS9010 Features

- ❖ The control panel has built-in data communication 10Mbps Ethernet
- ❖ Real time monitoring with FoxSec Lite+ software
- ❖ Configurations and setup with FoxSec conf software
- ❖ Possibility to create up to 128 security areas
- ❖ Possibility to connect 2 card readers directly to FS9010
- ❖ The main panel has 16 zone inputs (expandable up to 128 zones)
- ❖ On the control panel are 9 programmable outputs
- ❖ There can be up to 2880 users or remote buttons who can access with 4 or 6 number PIN codes or with PIN code + card (Wiegand format)
- ❖ The control panel has last 7000 access memory, last 2500 event memory and separate 100 alarm memory
- ❖ 2 x CanBus data lines both up to 1500m (4900 feet)
- ❖ FRAM (Ferroelectric Non-volatile) technology based memory, data will be saved for 10 years.
- ❖ Up to 4 elevator controllers (16 floors per main panel)
- ❖ Optional Assa/Aperio lock interface port
- ❖ Optional BACnet/IP protocol
- ❖ Possibility to use up to 8 FoxSec Lite+/M or FoxSec Lite+/PDA software at the same time
- ❖ FoxSec Lite+/PDA software to use with windows mobile -6.5 QVGA
- ❖ Up to 8 independent UDP ports for monitoring or configuring (port forwarding available)
- ❖ Up to 10 door modules (up to 31 access doors including with Assa/Aperio locks per main panel)
- ❖ Optional GSM modem (Siemens GSM modem)
- ❖ Dataline optical isolation (optional)
- ❖ Each zone has entry/exit delay ability
- ❖ 13 different zone (input) types
- ❖ e-mail of events
- ❖ Arming/disarming by access card
- ❖ Flexible output event programs
- ❖ Up to 80 one-time or periodically timed schedules
- ❖ For each area can set autoarming function
- ❖ Contact ID communicator (optional) phone line
- ❖ Metal enclosure with tamper switch
- ❖ Power supply unit 13.7VDC, 1.7A
- ❖ Battery full control and recharging



FS9010 Features

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| Mounting | <p>Metal enclosure protects components from Damage and tampering the device</p> <p>Mount to any wall surface, using three screws. The unit should be installed indoors, inside a secure area, such as in an IT or telecommunications room, utility closet, or on a wall above a suspended ceiling.</p> |
| Indications | <p>Main panel LEDs</p> <p>Transistor output electrical fuse LED. If LED is ON then fuse is OK. (applies to +U, Bell, Out1-4)</p> <p>Battery LED. If LED is ON then battery is connected and power is provided to the unit</p> <p>Lock power electrical fuse LED. If LED is ON then fuse is OK. (applies to DC out)</p> <p>Relay status LEDs. If LED is ON then corresponding relay is activated. (Applies to RL5-RL8)</p> <p>Transistor output status LEDs. If LED is ON then corresponding output is activated. (Output 01-04)</p> <p>CAN 1 and CAN 2 data line Rx/Tx LEDs (receiving/transmitting data) If CAN data line RX and TX are ON then it is programmed to main unit at least one keypad and/or zone expander and/or door module and/or output module and all connected devices are communicating with main unit correctly. If LEDs are OFF then there are no devices programmed to main unit. If LEDs blink with even pace then at least one of the programmed devices is not communicating with FoxSec main unit. At start-up CAN LEDs are blinking for 1 min for searching access door modules. RS232 data line supervision - If blinking then it is sending and receiving data over COM. Green= transmit (TX), Red= receive (RX). LAN (Ethernet) supervision LED</p> |
| Connectors | <ul style="list-style-type: none"> ▪ RJ-45 connector for Ethernet TCP/IP ▪ Quick-disconnect screw terminal connectors: ▪ One RS-485 connection to ASSA/APERIO devices (optional) ▪ 16 on-board supervised inputs for security detectors ▪ 5 transistor outputs for local alarm or other devices (rated 250mA @ 12 VDC) ▪ 4 non-latching output relays for local alarm or other devices (rated 2 x 5A (max500W) and 2 x 1A (max50W) @ 48 VDC) ▪ 2 x card reader inputs (26bit wiegand only) ▪ DC Power input ▪ Three Tamper inputs |
| Power | <p>The user should supply 12 VDC to connected interfaces. Separate supervised DC supplies with battery back-up are recommended for door locking or relay activated devices if consumption is exceeded</p> |
| CPU | <ul style="list-style-type: none"> • 16-bit CPU Microcontroller, 50 MHz |
| Memory | <ul style="list-style-type: none"> • 512 k Flash memory inside microcontroller • 256k EEPROM non-volatile memory • 196k FRAM non-volatile memory |
| Warranty | <p>Warranted against defects in materials and workmanship for 24 months. (See complete warranty policy for details.)</p> |

FS9010 Specifications

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| Measures | <p>Dimensions 233W x 300H x 80D mm (9.18" x 11.81" x 3.15")</p> <p>Weight 2.35kg (82.9 oz) without battery</p> |
| Case | <p>Enclosure Material Metal</p> |
| Power supply | <p>Power Supply Requirements 100-240VAC 50/60Hz power supply Mains fuse 1.25A</p> <p>Power output supply 13V Power supply max operating current 250mA Power supply max output current 1.7A Electronic fuse Main panel current 400mA@13.7VDC Recommended: Supervised switching power supply with battery backup, input surge protection, AC Fail and battery low contact outputs. Separate supervised DC supply with battery back-up recommended if power supply max consumption exceeds.</p> |
| Environmental | <p>Operating Environment Indoors, or customer-supplied NEMA-4 Enclosure</p> <p>Temperature 14° to 104° F (-10° to 40° C)</p> <p>Humidity 0% to 80% relative, non-condensing</p> <p>Materials RoHS compliant 2002/95/EC</p> |
| Communications | <p>Communication Ports 1 x TCP-IP - 10 Mbps 2 x CANBus - two wire 2 x RS-232 - three wire 1 x RS-485* - (*optional can be used for Aperio only) 1 x Contact ID - two wire phone line (optional)</p> |
| Cables | <p>Cable Distance TCP/IP - 300 feet (100 m) to next device, using Category 5 cable or Category 6 cable CANBus - 1500m (4900 feet), using shielded twisted pair cable (Cat5e, Cat6e) RS-232 - 15m (50 feet), using 4 x 0.50 cable RS-485 -1500m (4900 feet), using shielded twisted pair cable (Cat5e, Cat6e) Input Circuits - 150m (500 feet), using 4 x 0.22 cable Output Circuits - 150m (500 feet), using 4 x 0.22 cable Card reader - 50m (165 feet) 2 x 0.5+4 x 0.22+S Minimum wire gauge depends on cable length and current requirements.</p> |
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