

## FoxSec Main Panel

FoxSec® FS9010 is EN50131 Grade 2 compatible integrated security and access control system designed for medium installations.


Securing 240 Areas, up to 240 zones (16 on main board, expandable to 240 zone inputs) and controlling up to 12 access points.


FS9010 is designed for installations in commercial complexes and high-security installations.

FoxSec® FS9010 can communicate to 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® FS9010 is done through FoxSecConf configuration software. FoxSecConf is designed for use by installer (system programming).

## FS9010 Features


 16 zone inputs / 240 security areas

 2 x 26bit Wiegand- two doors (expandable up to 12 doors)

 Built-in Ethernet data communication

 Up to 2800 users in memory

 Up to 3500 access control logs + 2500 alarm logs in memory

 Power supply unit 12V, 1,7A

 Battery control and capacity test

## Features

Metal enclosure protects components from Damage and tampering the device 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.

Main panel LEDs Transistor output electrical fuse LED. If LED is ON then fuse is OK. (applies to +U, Bell, Out1-4) Battery LED. If LED is ON then battery is connected and power is provided to the unit Lock power electrical fuse LED. If LED is ON then fuse is OK. (applies to DC out) Relay status LEDs. If LED is ON then corresponding relay is activated. (Applies to RL5-RL8) Transistor output status LEDs. If LED is ON then corresponding output is activated. (Output 01-04)

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

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

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

16-bit CPU Microcontroller, 50 MHz

512 k Flash memory inside microcontroller

256k EEPROM non-volatile memory

196k FRAM non-volatile memory

Warranted against defects in materials and workmanship for 24 months.  
(See complete warranty policy for details.)

## Specifications

### Dimensions

300W x 220H x 75D mm

(11.8" x 8.6" x 2.9")

### Weight

6.97 kg (245 oz) without battery

### Casing Material

Metal

### Power Supply Requirements 1

100-240VAC 50/60Hz power supply

Mains fuse 1.25A

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.

### Operating Environment

Indoors or customer-supplied NEMA-4 Enclosure

### Temperature

-10° to 104° C (-10° to 40° F)

### Humidity

0% to 80% relative, non-condensing

Materials RoHS compliant 2002/95/EC

### Communication Ports

1 x TCP-IP- 10 Mbps

2 x CANbus- two wire

2 x RS-232- three wire

1 x 485- two wire (optional. Can be used for Aperio only)

1 x contact ID

### 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.

