FoxSec Main Panel

FoxSec® FS9002 is EN50131 Grade 3 compatible integrated security and access control system designed for large installations.

Securing 240 Areas, up to 790 zones (32 on main board, expandable to 480 zone inputs and 62 door sensors on main board, expandable 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 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® FS9002 is done through FoxSecConf configuration software.
FoxSec Conf is designed for use by installer (system programming).

FS9002 Features

- Warning device output and inputs
- USB port for configuration.
- Real-time clock
- Power supply unit 12V, 3A
- Battery control and capacity test
- Battery reverse polarity protection

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Features

Up to 240 Areas
32 alarm zone inputs, expandable up to 480 zones via expansion modules + up to 62 access door sensors, expandable up to 310 door sensors
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 two-Door controllers on data-line) with independent users database memory and events and hardware level integration
FRAM memory for up to 5760 security users
Independent realtime 100 alarm and 100 door events buffer

48 keyboards with wiegand reader input (built-in reader optional)
4 or 6 digit PIN or card+PIN authorization
5760 arming users with 19 personal areas and 60 arming time zones
24 000 security events
48 holidays (areas will stay armed)
80 schedules for different programs (arming, disarming, set releay etc)
480 zones have anti-masking
480 zones have adjustable EOL values
32 zones expandable to 480

Warning device output and inputs
zone status LED indication
BACnet protocol (optional)
Real-time clock
3 tamper inputs (2 for enclosure and 1 for warning device)
10/100 ethernet port
USB port for configuration

1 optically isolated keyboard and output expansion modules data line (length up to 2 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 two-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
12V 3A power supply with battery charger
All configuration is done through FoxSecConf software
Contact ID phone line modem (optional)
IP Contact ID alarm signaling over Ethernet
4 controlled power outputs 12V
Extra power output 12V 24W for web server (optional)
Warning device outputs and trouble inputs

Specifications

Dimensions
285W x 185H x 38D mm without lid
(11.2" x 7.3" x 1.5")
Weight
6.97 kg (245 oz) without battery

Casing Material
Metal

Power Supply Requirements 1
Type A (EN50131-1) External Power Supply required
Low Battery Alarm <11V
Deep Discharge Protection
Activates @ 9,5V +/-100mV. Restores @ 11V
Maximum Ripple
At maximum ancillary load current <120mV
@500mA load ripple is 0.6V
Low DC Voltage Alarm <11V DC+/- 100mV

Operating Environment
Indoors or customer-supplied NEMA-4 Enclosure
Temperature
0° to 40° C (-14° to 104° F)
Humidity
15% to 85% relative, non-condensing
Materials RoHS compliant 2002/95/EC

Communication Ports
1 x Ethernet
3 x CANbus- two wire
1 x 485- two wire
1 x contact ID

Cable Distance
CANbus- 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 2 x 0.5 + 2 x 0.22 cable
Minimum wire gauge depends on cable length and current requirements

Protection
4000-VPEAK isolation
2500-VRMS isolation up to 60sec
Human Body Model Up to 16kV (ESD)
Charged Device Model Up to 1kV (ESD)
Machine Model Up to 200V (ESD)
Thermal Shutdown Protection
Onboard DC-DC converter isolation Up to 2kVDC