FoxSec access door controller

FoxSec® products provide a complete and fully featured hardware/firmware infrastructure for access control and intruder alarm systems.

The hardware/firmware infrastructure for access control and intruder alarm systems.

The FS7302ECO Door controller connects 4 card readers via Wiegand or clock-and-data (magnetic card) interface controlling either one or two doors.The FS7302 features on-board memory, allowing changes to be downloaded via the RS485 network.

The FS7302ECO is compatible with FS9131 and/or FS9000/FS9002 hardware through a RS-485 network.
The FS9131 and FS9000/FS9002, in turn, communicates with the system server (FoxSec 1850, FoxSec Net or FoxSec WEB) via industry standard TCP/IP protocol over 10Mbps Ethernet or the Internet.

Internal memory stores up to 1850 users and last 2000 events. This architecture minimizes the impact on corporate LANs by using only one IP address for FS9131 doors panel or FS9000/FS9002 main panel and by handling low-level transactions on the RS485 network.
The access door controller was developed in a way that it is very durable and has many different and flexible functions.

FS7302ECO Features

- RS-485 data-line
- Dedicated tamper input
- Wiegand and magnetic stripe card reader support
- Button input
- Light weight
- Only PCB

FS7302ECO

Access door controller

Features

Double door controller (PCB)

All screw terminal connectors
One RS-485 connection to dataline

4 card reader inputs
2 door status switch inputs
2 REX button inputs

2 power outputs for electric locks
2 non-latching output relays for electric locks
(rated 2 x 5A (max500W)

OC Power input 9-13.7V
1 Tamper switch input
Door opened by key or door opened too long output*
*Additional relay (1 and 2) outputs can be configured as a fail output
**Higher current power MUST be ordered sepparately

16-bit CPU Microcontroller, 16 MHz

2A output power (electric lock, external device etc) electronic fuse
1.1A card readers electronic fuse
100mA input protection electronic fuse (each input has separate fuse)

32 k Flash memory inside microcontroller
128k EEPROM memory non-volatile
32k FRAM memory non-volatile

Specifications

Dimensions
180W x 109H x 30D mm without lid
(7.0" x 4.3" x 1.18")
Weight
0.16kg (5.7 oz) PCB

Power Consumption
Controller current 120mA @ 12VDC
PWM (Pulse-with modulation) regulator on-board

Operatin Environment
Indoors or customer-supplied NEMA-4 Enclosure
Temperature
-10° to 40° C (14° to 104° F)
Humidity
0% to 80% relative, non condensing
Materials
RoHS compliant 2002/95/EC

Communication Ports
1x RS-485- two wire

Cable Distance
RS-485- 1500m (4900 feet), using shielded twisted pair cable (Cat5e, Cat6e)
Input Circuits- 300m (500 feet), using 4 x 0.22 cable
Output Circuits- 300m (500 feet)
Card reader- 50m (165 feet) 2 x 0.5+4 x 0.22+S
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