

MultiSafe-MX

Cards specific to each application
Large choice of I/O cards
Hot swappable

Specific cards for expansion racks



MultiSafe-MX control panel is a fully flexible integrated fire detection, fire suppression control, gas detection, and intruder alarm system. Dedicated cards determine system performance requirements.

General description

The panel is composed of dedicated cards, installed in 19" racks, whose type and quantity depends on specific application requirements. The cards, which have their own "intelligence", are programmed for active/passive fire protection, gas detection, intruder alarm and logic functions.

Applications

- Fire and Gas detection and measurement systems, ATEX certified.
- Automatic fire extinguishing control systems.
- Integrated systems, intruder/burglar alarm, CCTV and logic functions.
- Fire protection systems in accordance with the recommendations of NFPA 72.

Reference standards

- IMQ-certified to EN 54-2 and EN 54-4 (fire detection)
- IMQ-certified to CEI 79-2 (intruder alarm)
- CPD-certified to EN 12094-1 (fire extinguishing)
- TUV-certified to IEC61508 (functional safety) – SIL 2 & 3 (high reliability and availability systems).

Features

Front plug-in with locking screws

High availability system

Can be hot swapped

Cards interconnected on redundant bus

Internal logic management by micro-controller

Power supply conform to EN54-4 standard

Benefits

Rapid maintenance with safety system

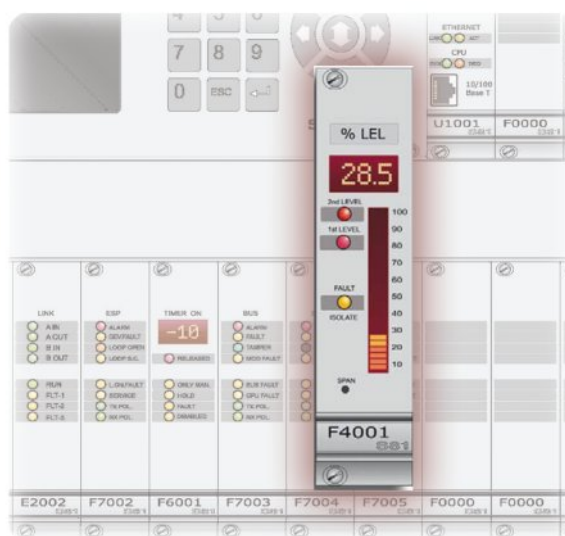
Suitable for use in SIL2 or SIL3 applications

Easy and rapid maintenance

System safety

Enables broad range of configurations

Can be used for fire fighting



Cards for expansion rack

U1006 - CONTROL RACK

Interface between the panel and the operator (IHM)

Large back lit screen



19 LED (fault, alarms)
Control keys
Integral buzzer



U1002-1 - CPU CARD

This card is the system central unit and contains the micro-controller
This version includes an RJ 45 Ethernet output connector



U1002-2 - CPU CARD

As a U1002-1 CPU but includes an ST Ethernet output connector for fibre optic

CARDS FOR EXPANSION RACK



E2002 - RACK CONTROL CARD

Rack controller



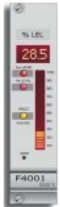
F5001 - 8-MONITORED LINE CONTROL CARD

8 x 500 mA outputs
Mainly used to control solenoids
For extinguishing agent release and directional valves, or to activate visual-audible alarm devices.



F6001 - CONTROL CARD FOR FIRE EXTINGUISHING SYSTEMS

Logic voting function for fire extinguishing control
Enables system compliance with N 12094-1



F4001 - ONE ANALOGUE INPUT CARD

4-21 mA single channel analogue input card
Two alarm levels



F5002 - 16-CONTROL CHANNEL CARD WITH OPEN COLLECTOR OUTPUTS

16 x non-monitored 250-mA outputs
Widely used for controls and direct hardwiring, or in conjunction with a 16-relay card (T8007)



F6002 - SPECIAL LOGIC CONTROL CARD

Produces and manages functional logic functions through flip/flop, toggle and timer devices
Timers can be configured to operate in A and B modes



F4002 - TWO ANALOGUE INPUT CARD

4-21 mA dual channel analogue input card
Two alarm levels



F5003 - ALARM CONTROL CARD WITH 8 OUTPUT LINES MONITORED THROUGH POLARITY REVERSAL

8 x 250mA outputs lines
Use in systems conforming to NFPA standards (activation of the alarm sounders)



F7002 - ADDRESSABLE DEVICE CONTROL CARD

Control card for devices addressable through ESP protocol (Hochiki's ESP protocol)
Manages up to 127 three-channel devices



F4003 - EIGHT ANALOGUE INPUT CARD

4-21 mA eight channel analogue input card
Two alarm levels



F5004 - 4-MONITORED LINE CONTROL CARD

4 x 2A outputs lines of the card
Mainly used to drive solenoids and heavy loads



F7006 - MODBUS PROTOCOL SERIAL COMMUNICATION CARD

ModBus RTU Master/Slave protocol communication card
Two independent output ports: RS485 (Half Duplex) and RS232



F3002 - 8-INPUT CARD FOR CONVENTIONAL DETECTION

8 inputs for conventional (non-addressable) detection and flame detection



F7007 - ANALOGUE ADDRESSABLE DEVICE CONTROL CARD - SSP PROTOCOL

Manage up to 127 analogue/digital input addressable modules and control modules for SSP protocol addressable devices.

Cards for power supply rack



PU-A0008 - 20A AC/DC CONVERTER - DRAWER TYPE

Universal switching feeder
Supplies a maximum 20A current at 25Vdc
19" rack mount used with PU-A009-1 battery charger
Connects up to four feeders in parallel
Hot swappable



PU-A0009 - BATTERY CHARGER - DRAWER TYPE

UPS converter
Controls and charges 2 x 12Vdc (24Vdc) batteries having a maximum capacity of 120Ah