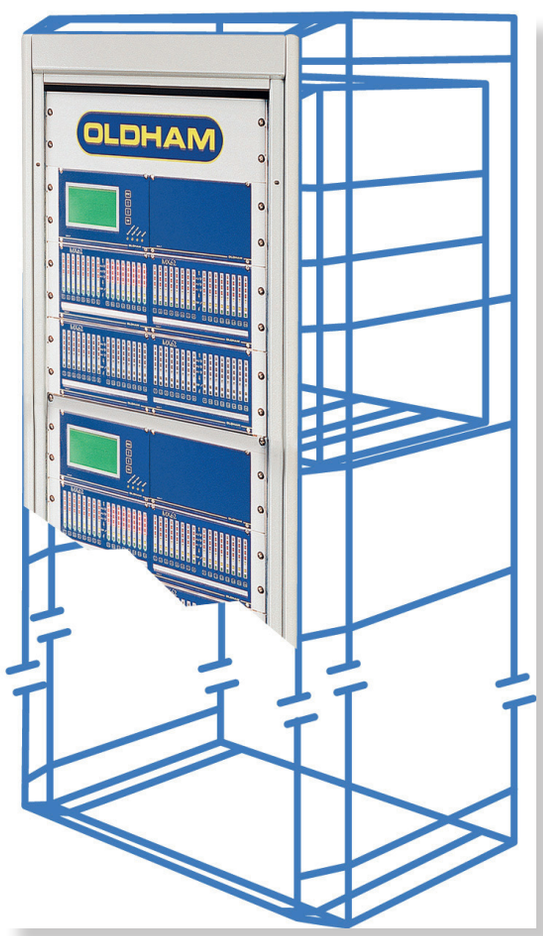
TELEDYNE OLDHAM SIMTRONICS
Everywhereyoulook™

MX 62

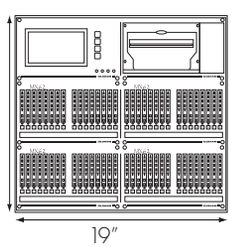
Controller



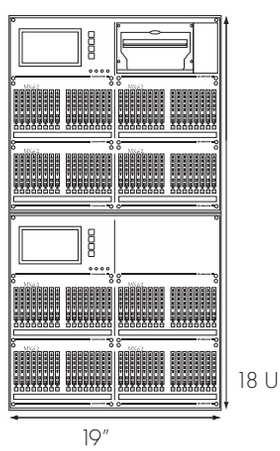
Presentation

Monitoring system for gas and flame detection.

Example
with 64 channels



Example
with 128 channels



Features

- Back up processor to ensure continual measurement (SIL 3 from EN 50402)
- 64 secure channels
- Modularity and flexibility
- Reduced installation costs
- Direct connections either on network or in loops

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A secure system for gas and flame detection

The MX 62 provides a back up system,to ensure an accurate analysis from the sensors to meet more and more specific requirements. The MX 62 system already meets the requirements of ATEX 100 A and offers the high level of security required by the SIL 3 (EN 50402).

The MX 62 monitor has incorporated these new requirements and other future needs.Through its modularity, flexibility, installation and reduced operational costs, the MX 62 is a very attractive solution.

A secure installation for optimized costs

An entirely secure installation

The structure of the MX 62 system has been developed to provide dual measurement: reliable data is passed quickly from the detectors to the relays.

A structured programming

The ConfigPro.Exe software configures the MX 62 via a PC.

Access to the different functions is protected by several passwords.

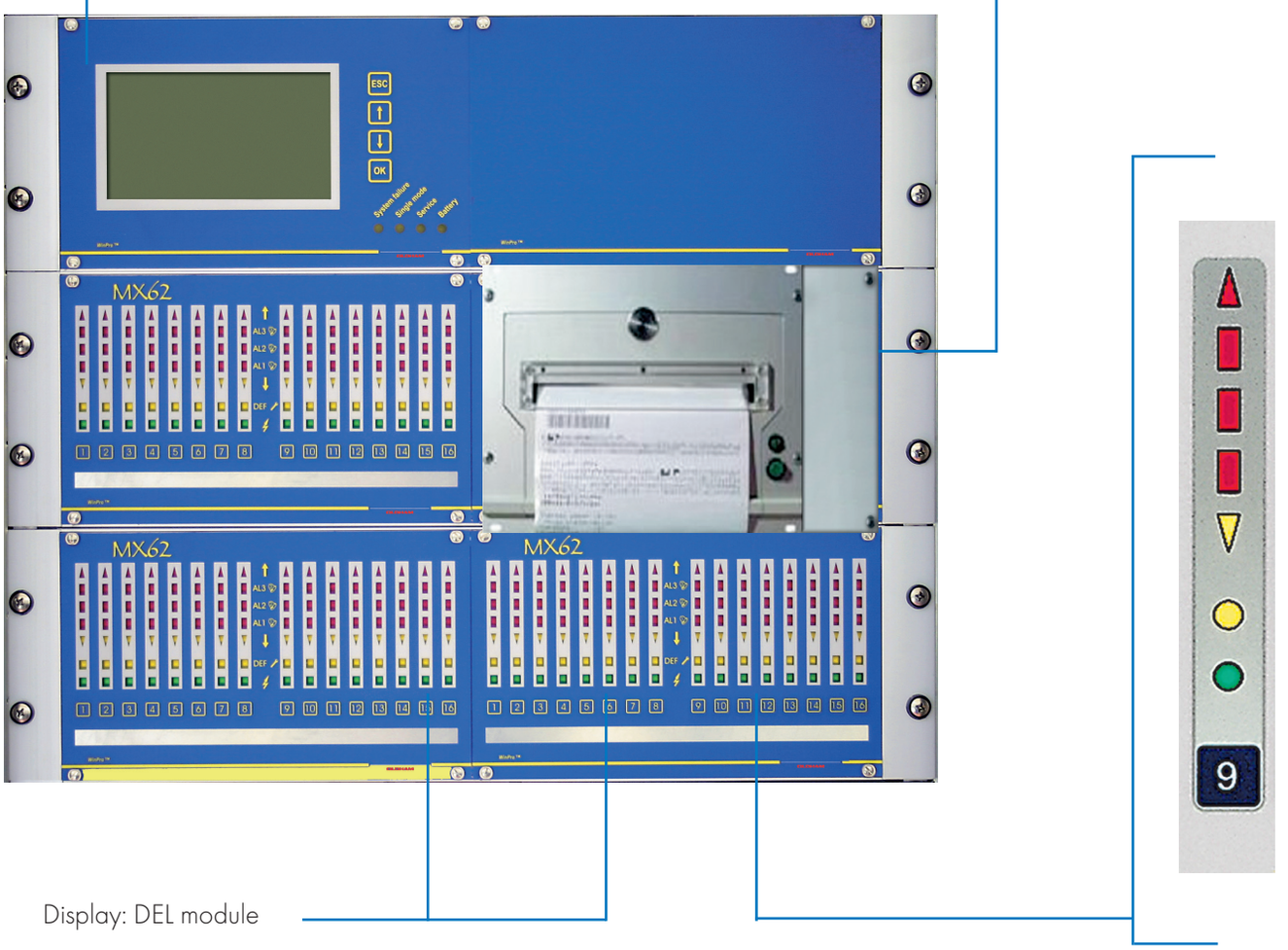
Space saving and easy access to the different element of the MX 62

An optimized cost

- The performance is innovative and meet the new requirements in terms of security
- The modularity allows a personalized operation and reduces wiring costs
- The flexibility helps integration of your system
- The reliability ensures minimum maintenance
- Programming the outputs considerably reduces the relay requirements

Example of installation with 256 detectors

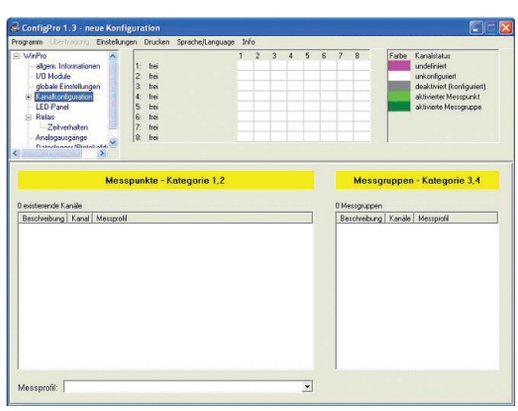
Operating panel



Supervisor

Il permet selon la configuration :

- Synoptic display
- Display of measurements and operating status of the detectors
- Display of curves and historic charts with a printout
- Communication through the internet



Supervisor

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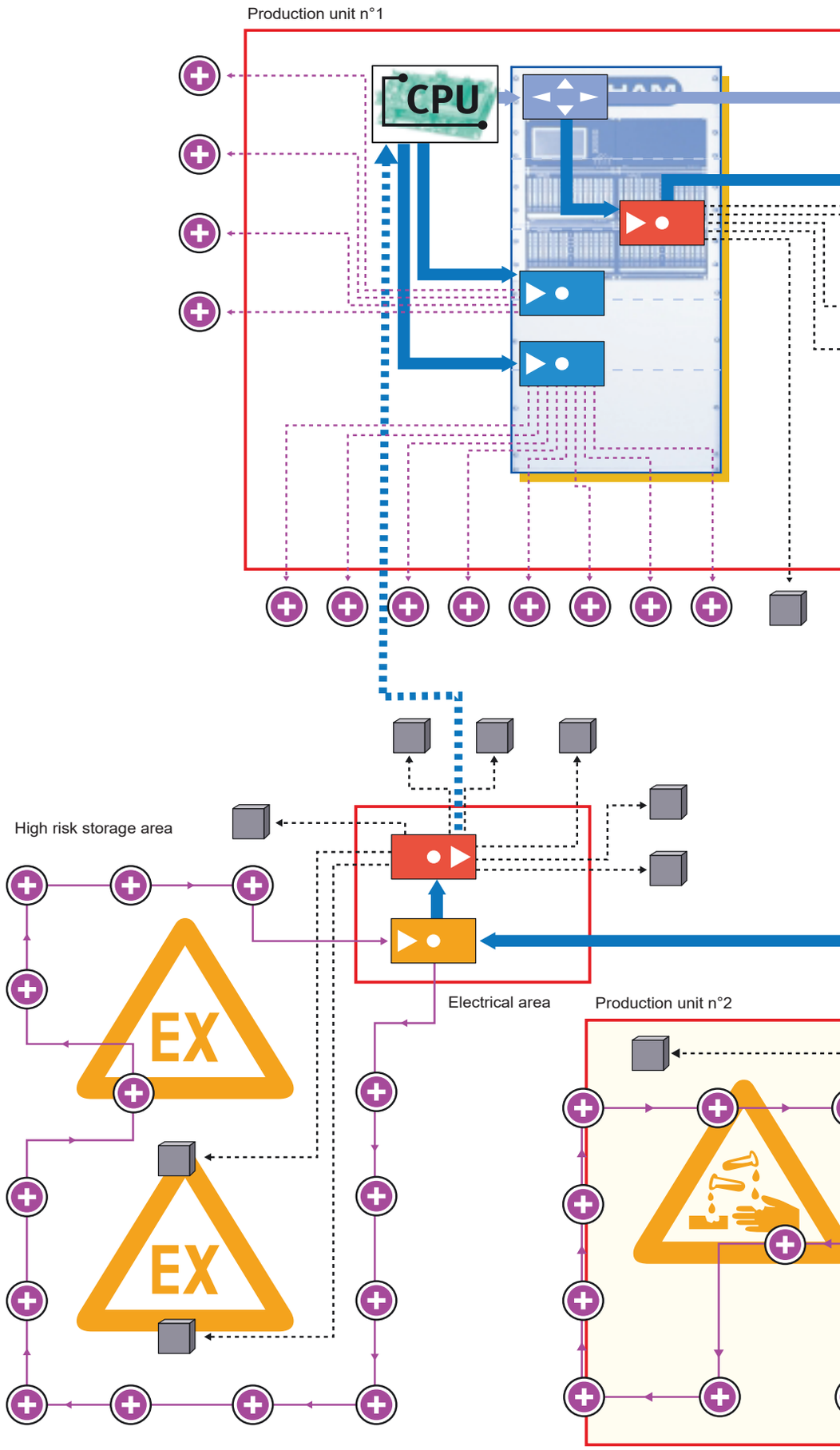
Example of an installation with an MX 62 monitor

- CPU
- Secured communication module
- Adaptate-module
- Analogic input module
- Output relay module
- Analogic output module
- Detector - Transmitter
- Remote actuator module
- Analogic output
- Address
- Area under gas detection-processing
- Device to double the bus for a distance › 2 km
- Secured supervisor
- Secured bus
- Back loop optional
- Secured link to detector
- Link to detector
- Link to analogic output
- Link to relay
- Secured link to secured supervisor



MX 62
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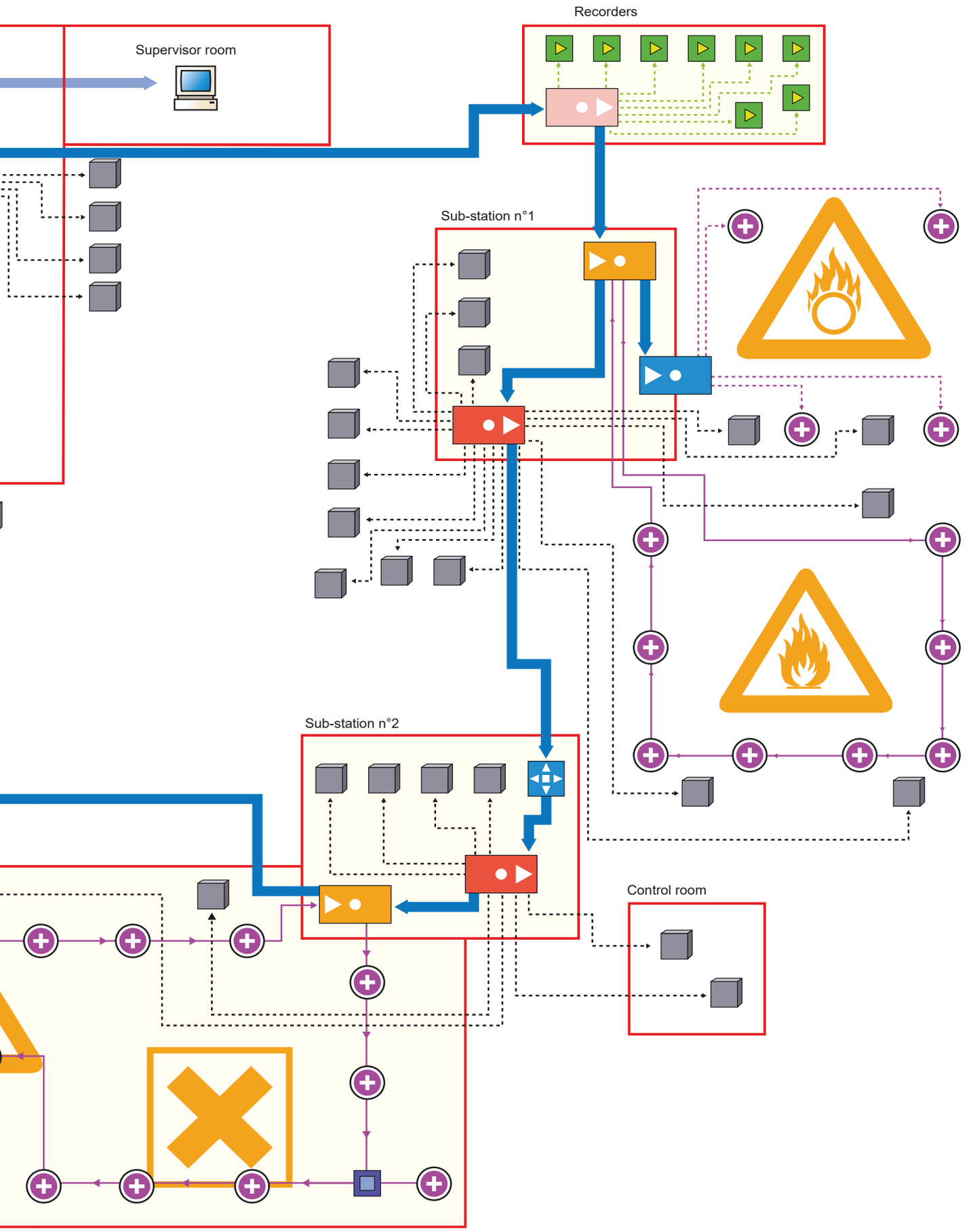
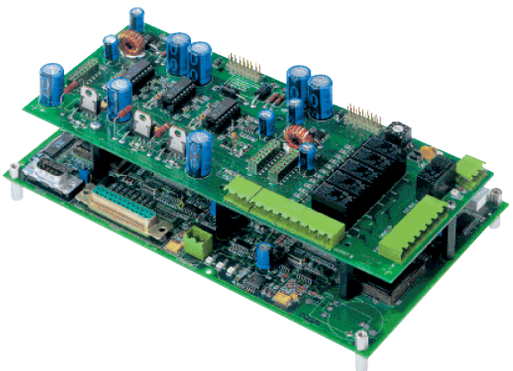


MX 62

Various modules

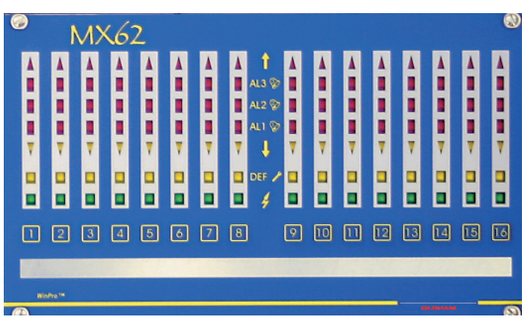
CPU module



The CPU module is the heart of the system. Its back up power supply and its two processors secure the MX 62 management.
Plug in the DEL and LCD modules, or remote connection with the RS485 connection (4 wires + screened system).

- Centralised management
- Connection to different modules
- Connection to an internal or external printer
- Dimensions: 240 x 130 x 50 mm (chassis not included)
- Consumption: 12 W
- Nominal tension: 24 VCC
- Minimal tension: 19.2 VCC

DEL module



16 channels available although the electronic equipment is designed for 8 channels as standard.

- 4 alarm thresholds
- Zero checking (reset)
- Power "on"
- Disturbance
- Dimensions: 3U x 1/2 19'' x 30mm (chassis not included)
- Consumption: 4W for 8 channels
- Nominal tension: 24 VCC
- Minimal tension: 19.2 VCC

LCD module

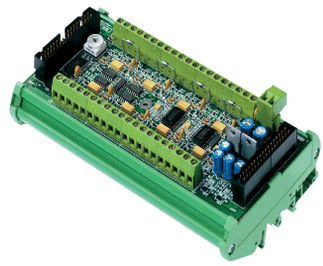
- Graphic, alphanumeric, LCD high definition
- User-friendly
- Data storage: at least 5 days or more (option)
- Can be remote via the RS 485 (4 wires + screened system)
- Dimensions: 3U x 1/2 19'' x 40 mm (chassis not included)
- Consumption: 8 W
- Nominal tension: 24 VCC
- Minimal tension: 19.2 VCC

Up to 29 displays can be networked with the MX 62, allowing measurement indication wherever you require them.

Printer module

- Printing of results, relay operating status, fault, min/max average over 8 hours
- Type ASCII, alphanumeric 40 or 80 characters
- Parallel connection
- Dimensions: 34 x 1/2 19'' x 75 mm thermal paper width : 110 mm
- Consumption: 18 W
- Nominal tension: 24 VCC
- Minimal tension: 21.5 VCC
- Tension mini : 21,5 VCC

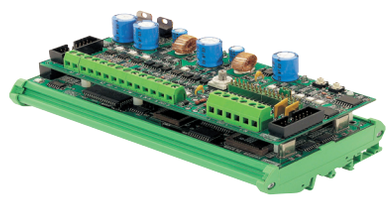
Analogue input module



This module allows the analogue detectors to network; It transmits the information back to the CPU via 2 different analogue/digital convertors.

- Direct connection with the MX 62 system or removed via the adapter module
- Up to 8 measurements points
- DIN rail mounted
- Dimensions: 160 x 90 x 70 mm
- Consumption: 1 W

Adapter module

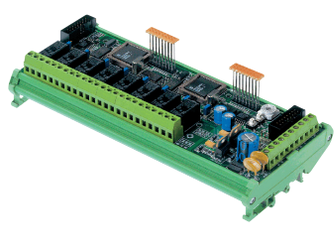


It allows 3 operating modes:

- Up to 16 addressable detector loop
- Up to 8 addressable detector loop combined with a remote analogue module
- Connection of 2 analogue input modules
- Dimensions: 195 x 90 x 100 mm
- Consumption: 10 W
- Nominal tension: 24 VCC
- Minimal tension: 19.2 VCC

The module can be remote via 2 networks RS485 (2 x 4 wires + screened system)

Relay module



It is fitted with 2 processors linked with the CPU

- Principal module: 8 relays
- Extension module: 8 relays
- NO/NC contacts
- Breaking capacity: 460 VA, 60 W
- Positive safety individually programmable
- Principal module dimension: 195 x 90 x 55 mm
- Principal module dimension extended with 16 relays : 195 x 90 x 90 mm
- Maxi consumption: 15 W
- Minimal tension: 20.5 VCC

The module can be remote via 2 RS485 (2 x 4 wires + screened system)

Analogue output module

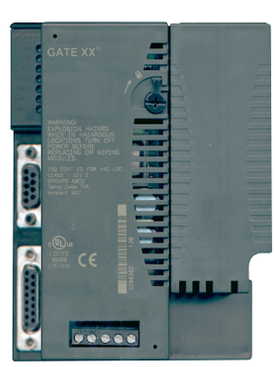
It is fitted with 2 processors linked with the CPU

- Fitted with 8 analogue 4-20 mA or 0-10 V outputs

Each output is programmed to transmit:

- The growth value for one detector
- The linearized value
- Means or max for a detectors group
- Dimensions: 160 x 90 x 70 mm
- Consumption: 8 W
- Nominal tension: 24 VCC
- Minimal tension: 19.2 VCC

Communication module



It ensures the link towards a supervisor and a modem.

- Link with CPU via the RS 232
- Personalized or modbus protocol via RS 422
- Dimensions and consumption: consult us.

NB : DEL and LCD modules use a common RS 485.

The adapters modules, relays and analogue outputs share two other RS 485.

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Technical characteristics

MX 62

Alarms

Visual alarms	Gas : 4 thresholds Maintenance: - Calibration mode - Fault - Zero checking Power “on”
Audible alarms	Via specialised relays
Inputs	4-20 mA Numeric
Outputs	4-20 mA Numeric Relays (128 max.)
Printer	Centronix connection
Power supply	24 V DC , 230 VAC (others on demand) Alimentation secourue
Operating temperature	-15°C to +50°C
Rack dimensions	19”, 3U ; 482.8 x 133 x 120 mm (19.1 x 5.3 x 4.7 inches)
Standards	CE, SIL3 of EN 50402 and BVS 03 WINPRO : ATEX G 002 X MX 62 BVS 07 ATEX G 001 X
Others	Programming software Supervision software

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