

# MX 62

## Monitoring System for Gas and Flame Detection

- **Back up processor to ensure continual measurements (SIL 3)**
- **64 input channels**
- **Modular and flexible**
- **Reduced installation costs**
- **Direct connections either on network or in loops**

**T**he MX 62 provides a redundant system to ensure an accurate analysis from the sensors.

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 an attractive solution for all gas and flame detection needs.

The MX 62 system meets the requirements of ATEX 100 A and offers the high level of security required by SK2 and SIL3 rated systems.

### **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**

#### **An optimized cost**

- The innovative design meets the new requirements in terms of security and safety
- The modularity allows a personalized operation and reduces wiring costs
- The flexibility helps integration of your system
- The reliability ensures minimum maintenance
- Programmable outputs reduce relay requirements



# MX 62

## VARIOUS MODULES

### LED Module **A**

16 channels (8 channels is standard)

- 4 alarm thresholds
- Reset/acknowledge
- Power "on"
- Fault
- Dimensions: 3U x 1/2 19" x 30mm (chassis not included)
- Power consumption: 4W for 8 channels
- Nominal voltage: 24 VDC
- Minimal voltage: 19.2 VDC

### LCD Module **B**

Up to 30 displays can be networked with the MX 62, allowing measurement display wherever you require.

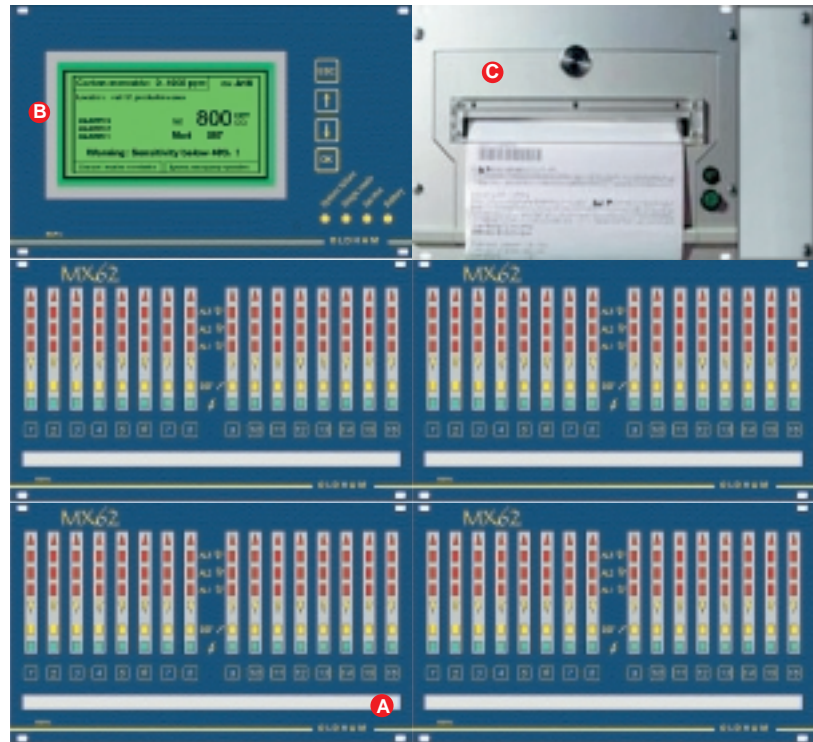
- Graphic, alphanumeric, high definition LCD
- User-friendly display graphics
- Data storage: at least 5 days (option)
- Can be remote via RS 485
- Dimensions: 3U x 1/2 19" x 40 mm (chassis not included)
- Power consumption: 8W
- Nominal voltage: 24 VDC
- Minimal voltage: 19.2 VDC

### Printer Module **C**

- Printing alarms, 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
- Power consumption: 18W
- Nominal voltage: 24 VDC
- Minimal voltage: 21.5 VDC

### Supervisor Software Provides:

- synopsis of the system
- display of measurements and operating status of the detectors
- display of curves and historic charts with a printout
- communication through the internet



### CPU Module **A**

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 LED and LCD modules, or remote connection via RS485 (4 wires + shield).

- Centralized management
- Connection to different modules
- Connection to an internal or external printer
- Dimensions: 240 x 130 x 50 mm (chassis not included)
- Power consumption: 12W
- Nominal voltage: 24 VDC
- Minimal voltage: 19.2 VDC

### Analog input Module **B**

Analog signals from the detectors to be input into the control system. Dual converters ensure reliable and redundant operation.

- Direct connection with the MX 62 system or remote via the adapter module
- Up to 8 measurements points, 2 or 3 wire
- DIN rail mounted
- Dimensions: 160 x 90 x 70 mm
- Power consumption: 1 W

### Adapter Module **C**

- It allows 3 operating modes :
  - up to 16 addressable detectors in a loop configuration
  - up to 8 addressable detectors combined with a remote analog module
  - connection of 2 analog input modules
  - dimensions: 195 x 90 x 100 mm
  - power consumption: 10W
  - nominal voltage: 24 VDC
  - minimal voltage: 19.2 VDC
- The module can be remote via 2 RS485 networks (2 x 4wires + screened system)

### Relay Module **D**

- 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
  - dimension: 195 x 90 x 55 mm
  - dimension with extended relays: 195 x 90 x 90 mm
  - power consumption: 15W
  - minimal voltage: 20.5 VDC
- The module can be remote via 2 RS485 (2 x 4 wires + screened system)

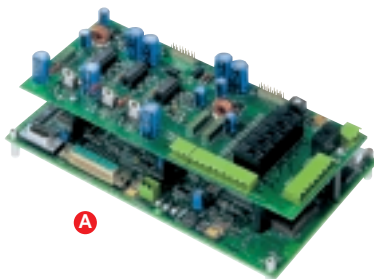
### Analog Output Module **E**

- It is fitted with 2 processors linked with the CPU
  - fitted with 8 analog 4-20 mA or 0-10 V outputs
- Each output is programmed to transmit:
  - the real time value for one each input
  - the linearized value
  - means or max for a detectors group
- dimensions: 160 x 90 x 70 mm
- power consumption: 8W
- nominal voltage: 24 VDC
- minimal voltage: 19.2 VDC
- Mimic module: open collector (56) suitable to drive LED mimic panel as per MX 62 channels

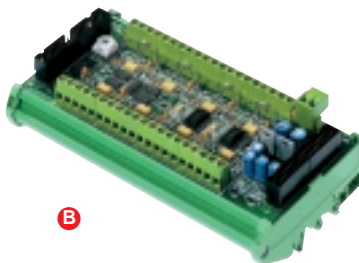
### Communication Module **F**

- link to a supervisor for data exportation (PLC, DCS or SCADA)
- link with CPU via the RS 232
- personalized or modbus protocol via RS 422
- dimensions and consumption: consult us.
- Optional communication splitter module available

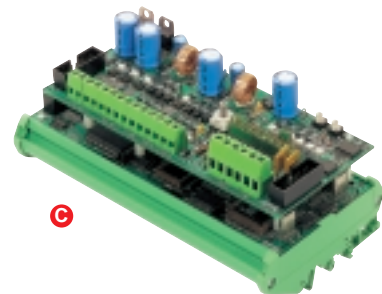
NB : LED and LCD modules use a common RS 485. The adapters modules, relays and analogue outputs share two other RS 485.



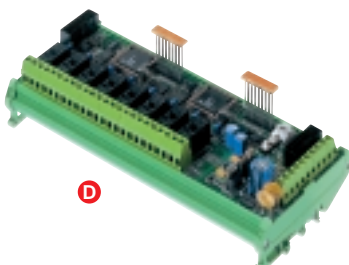
**A**



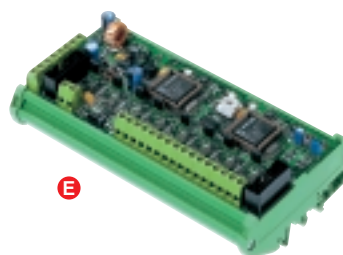
**B**



**C**



**D**



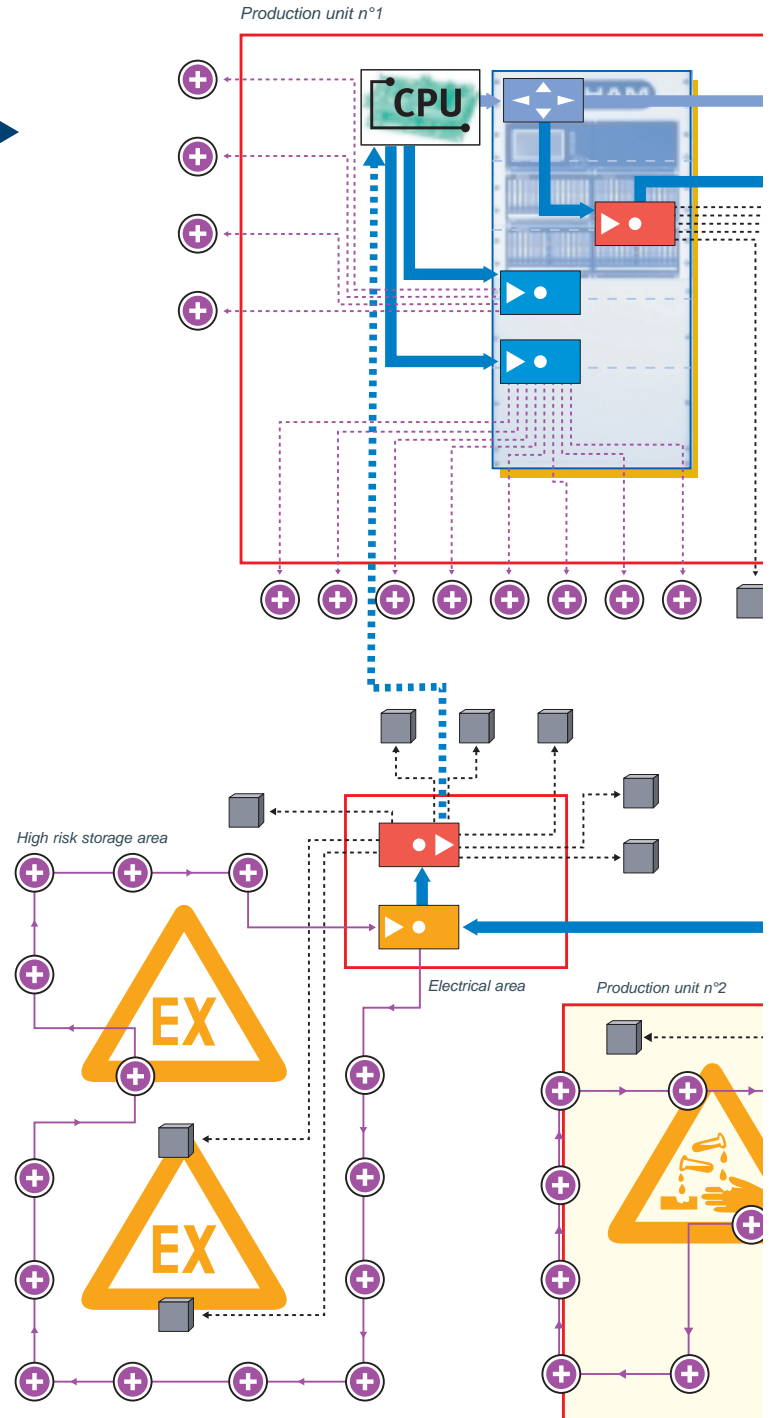
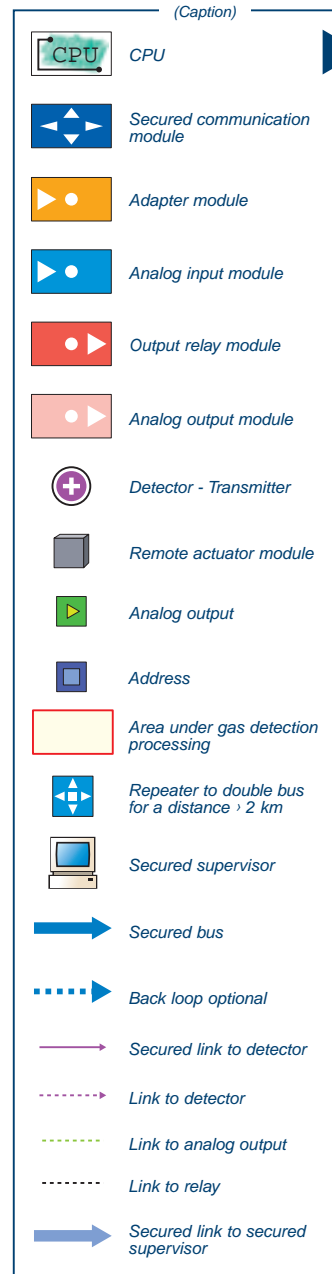
**E**



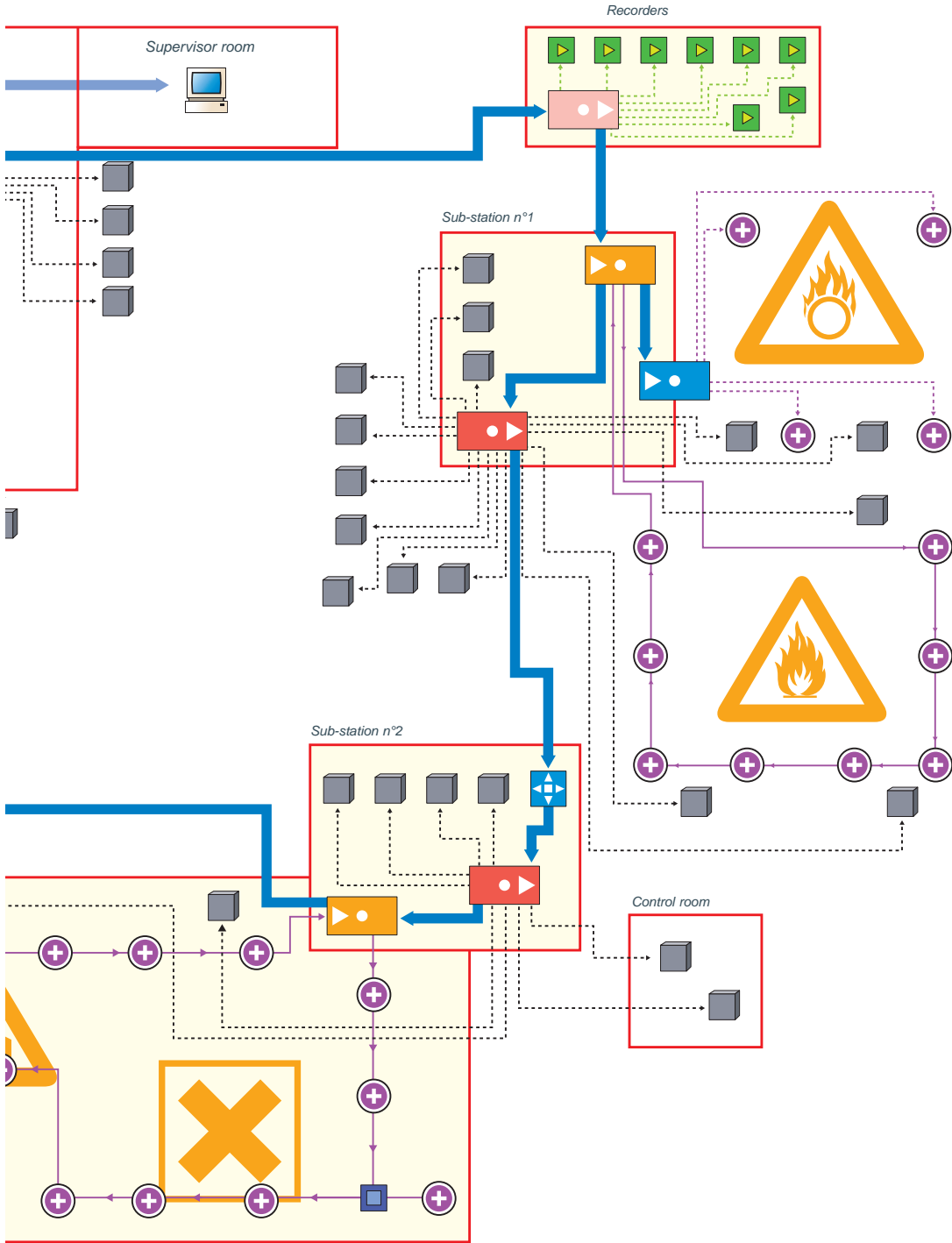
**F**

# MX 62

## EXAMPLE OF AN INSTALLATI



# ION WITH AN MX 62 MONITOR



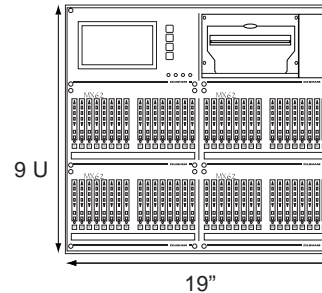
# MX 62

## SPECIFICATIONS

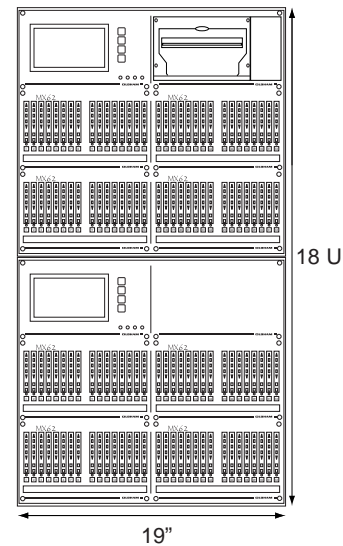
Type: Gas and flame monitor  
 Capacity: 64 secure channels per system (128 channels per console)  
 Casing: Electric opening, box and console  
 Display: High definition graphic alphanumeric LCD, remote and optional  
 Programming: Various possibilities : voting, boolean calculations, increasing and decreasing alarms, mean etc.

### ALARMS

Visual alarms: Gas : 4 thresholds  
 Maintenance :  
 - calibration mode  
 - fault  
 - zero checking  
 Power "on"  
 Audible alarms: Via specialized 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)  
 Dual power supply  
 Operating temperature: -15°C to +50°C  
 Rack dimensions: H from 3U x L 19" x P 120 mm  
 Standard : CE, SIL3 of EN 954-1 and BSV 03 ATEXG002X  
 Others: Programming software  
 Supervision software



Example with 64 channels



Example with 128 channels

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