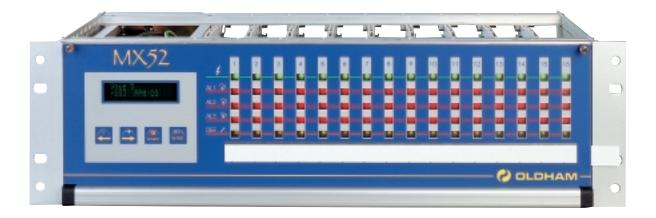


16 Channel Controller

- Programmable keyboard
- Modular control panel (3U, 19")
- Master digital display
- Up to 16 channels
- 33 gas alarm thresholds, one with time delay, 1 common fault alarm



he MX 52 control unit allows various detectors to be connected and monitored. Any gas detector from Industrial Scientific or any other 4-20 mA device can be monitored and controlled.

The modular design and flexibility enable the MX 52 to be adapted to your exact requirements.



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A Control Unit Adapted To Your Needs

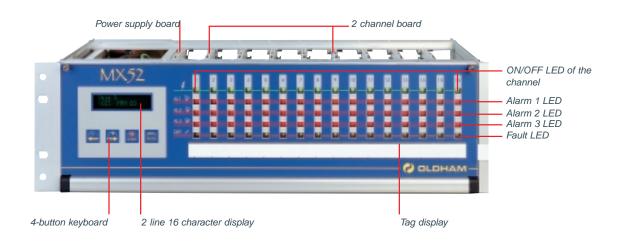
The innovative features of the MX 52 are integrated into a 3U 19" rack frame for use in a variety of applications.

The MX 52 can be programmed either through the keyboard or by an external PC.

Detection, display and alarms

Each of the 16 channels performs the following:

- continuous monitoring of connected detector(s)
- cyclic display of the detected gas, its status, content and unit (ppm, LEL or %)
- alarms are initiated if concentration exceeds preset thresholds
- relays activated to enable external warning devices (valves, audio/visual alarms)
- fault alarms
- 4-20 mA outputs
- serial RS485 Modbus interface





Performance, Reliability, Safety

Performance

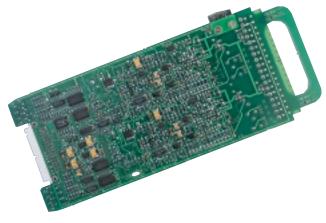
- 19" rack frame 3U high with up to 16 channels (8 cards 2 channels each)
- Easy wiring and installation
- Simple programming
- Fault and gas alarms monitored by a built in micro-controller
- 8 cards with 2 independent channels each
- Fixed or scrolling fluorescent display with 2 lines, 16 characters
- 3 gas alarm thresholds, individually adjustable
- Instantaneous alarms 1 and 2
- Alarm 3 delayed or averaged
- 5 LED indicators per channel
- · Local or remote alarm acknowledgement
- 4-20 mA input with gas detectors, but also with other types of detectors (temperature, air speed, pressure)
- Common serial output with RS485 Modbus protocol
- 4-20 mA output per channel

Reliability

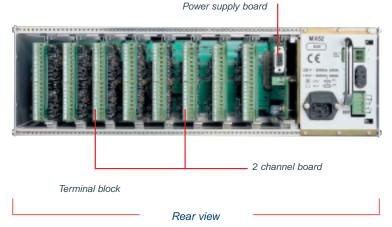
 Protection against radio-frequency and electromagnetic interference prevents false alarms (CE marked)



- General fault alarm
- Remote audible alarm
- Transmission for each measurement channel, alarms, faults, state of relays on RS232 or 485 output
- Integrated display and LED test
- Fail safe relay operation
- Maintenance bypass mode indicated by LED indicators



2 channel board



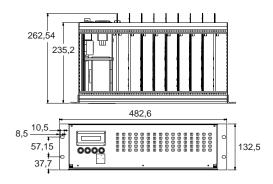


MX 52

SPECIFICATIONS

Туре:	Wall mounted controller
Function:	Microcontroller-based multichannel monitor
Capacity:	8 cards, 2 independent channels each (max 16 channels)
Display:	Fluorescent 2 lines 16 fixed or scrolling characters
Alarms	
Fault alarms:	System functioning normally
	Faulty interface link
	Faulty detector
	Faulty microcontroller
	Specific channel identification with yellow LED
	Common fault relay
Gas alarms:	3 independent thresholds per channel
	Third threshold delayed or averaged
	Automatic or manual reset
	Programmable increasing or decreasing alarm
	Visual red LED
	Relay output per channel (alarm 1 and 2), common relay on alarm 3
Audible alarm:	80 dB at 30cm
Outputs:	2 independent gas alarm relays per channel (2 A - 250 VAC Rating for resistive load)
	1 common gas alarm 3 relay or common audible alarm transfer (programmable)
	1 common fault relay
	Programmable positive or negative safety on alarm relays
	Fail safe on fault
	Programmable NC or NO output on alarm 1, alarm 2 and fault alarm, SPDT on alarm 3
Inputs	
Type of detectors:	Flammable detector bridge type
	Oxygen, toxic or flammable detector 4-20 mA output, 2 or 3 wire
	Other detectors standard current output

Links:	2 or 3 wires re-inforced cable
Loop impedance:	Flammable 3 wire : 32 Ω
	4-20 mA: 2 or 3 wire - 56 Ω
	Average line length (in meters at 20°C for a 1,5 mm ² conductor) : - Flammable : Bridge type - 1000 m 4-20 mA - 2000 m - Power supply control per LED on each channel (power ON/OFF green LED indicator)
Signal output:	Analog 4-20 mA per channel
	Serial RS 485 or 232 MODBUS protocol
Power supply:	103 to 122 V AC or 207 to 244 VA
	21 to 31 V DC
	Power consumption : 300 VA or 240 W
Miscellaneous:	Local or remote acknowledgement
	Operating temperature: -10 +45°C
	Relative humidity: 5 to 95 % non condensed
	In compliance with European standards 50054, 50081 and 50082
Dimensions:	Rack 3U, 19" frame
	Dimensions : 482 w x 132 h x 266 d in mm
Weight:	15 Kgs



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