



## MX 32

The MX 32 is a compact, low-profile controller that continuously monitors gas detection, including 4-20 mA, dry logic input, MODBUS RS485 signal from compatible detectors.

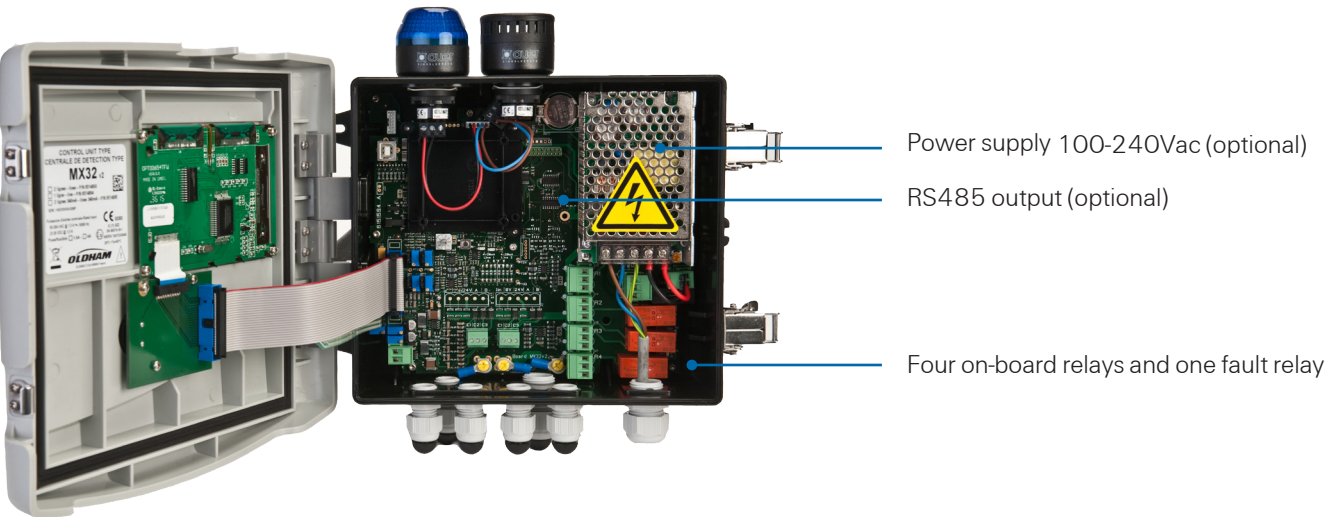


- Analog and digital controller
- Up to eight detectors
- Fully scalable

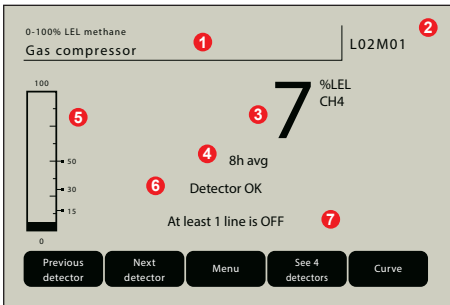


MX 32 takes analog and digital inputs and covers all needs for a wide variety of applications.

The MX 32 digital technology allows up to eight detectors to be distributed on two lines for increased cost savings.

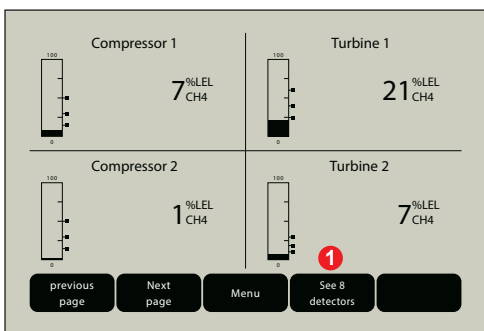


## Normal mode



- 1 Measurement range, gas and detector tag
- 2 Detector address
- 3 Current value with unit and detected gas
- 4 Averaged value on the last eight hours
- 5 Bar graph with alarm thresholds
- 6 Detector status (OK, OFF, FAULT)
- 7 MX 32 status information

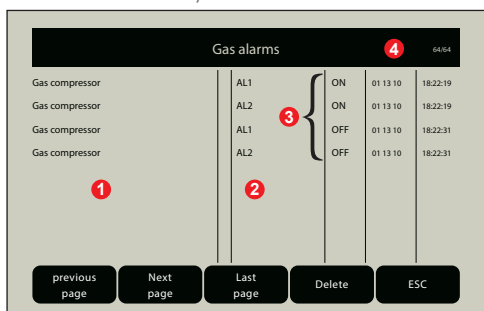
## Simultaneous display of several detectors



- 1 Up to eight detectors displayed simultaneously

## Data-logging

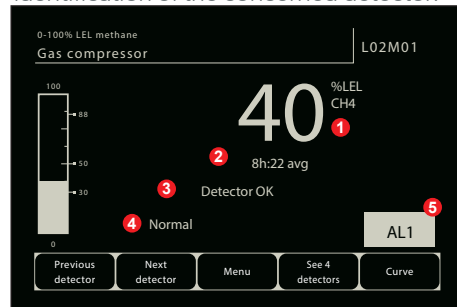
By default, the MX 32 can store up to 512 alarm events, 512 fault events and 512 system events.



- 1 Detector tag
- 2 Event
- 3 Date and time of events appearance or clearance
- 4 Page number (up to 64 pages)

## Alarm mode

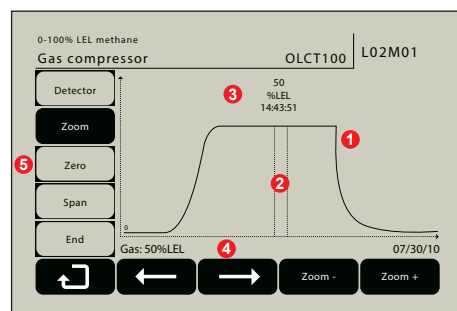
Grayscale mode in alarm conditions for immediate identification of the concerned detector.



- 1 Current value with unit and detected gas
- 2 Averaged value on the last eight hours
- 3 Detector status (OK, OFF, FAULT)
- 4 MX 32 status information
- 5 Detector in alarm

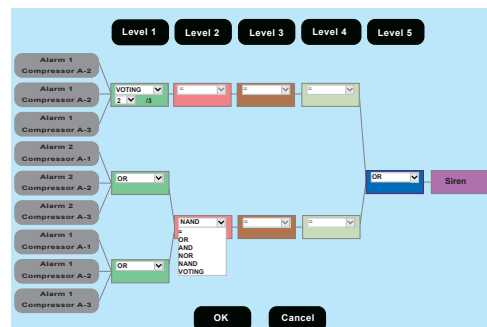
## Calibration curve

Simplified procedure that enables time savings (i.e. non-intrusive and one-man calibration).



- 1 Calibration curve
- 2 Cursors for span settings
- 3 Measured value
- 4 Calibration gas value
- 5 Detector selection, zeroing and spanning

## COM 32 configuration software



1. Simple relay programming
2. Up to five embedded functions: OR, AND, NOR, NAND, VOTING
3. Multiple timers available
4. Advanced management of audible alarms (acknowledgment, reactivation, evacuation)

## Modules

Different modules can be connected to improve the capabilities of the controller.

### 4 or 8-relay module



Programmable 4 or 8-relay module can be located closer to the actuators for cost savings.

### 8-analog-input



Can connect standard analog transmitters (gas or flame detectors for instance) on a digital line for cost savings.

### 16-logic-input module



Addressable module of 16 logic input for recovery of digital information such as fire or intrusion alarms, emergency stop, limit switch activation, etc.

### 4-analog-output



Addressable 4-analog-output module that delivers four analog 4-20mA signal outputs (detector output copy, min, max, average of a group of detectors) for connection to a datalogger, a PLC, a Building Management System (BMS), etc.

## Ordering information

MX32-A-B-C-D-E-F

#### Version

- 1- 1 channel
- 2- 2 channels
- 3- Wheatstone bridge

#### Power supply

- 1- 24Vdc
- 2- 100/240Vac

#### Language

- 1 - French
- 2 - English

#### Strobe and Audible alarm combination

- 0- Without
- 1- Red
- 2- Blue

#### RS 485 serial output

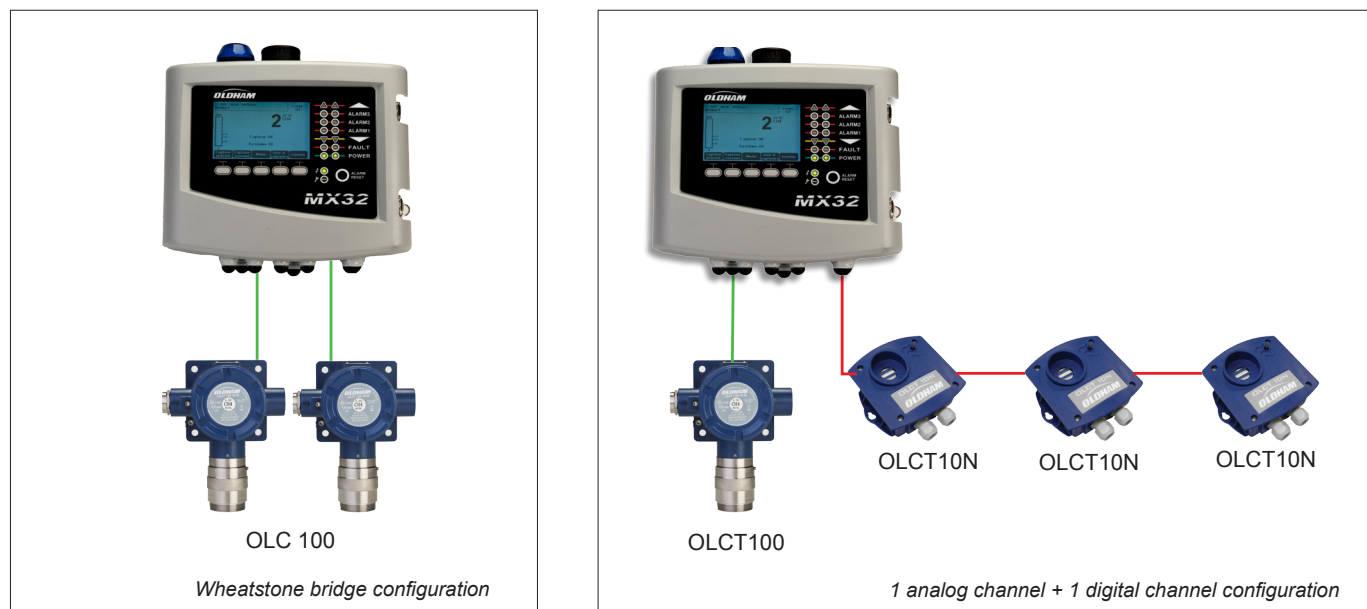
- 0- Without
- 1- With

#### COM 32 software

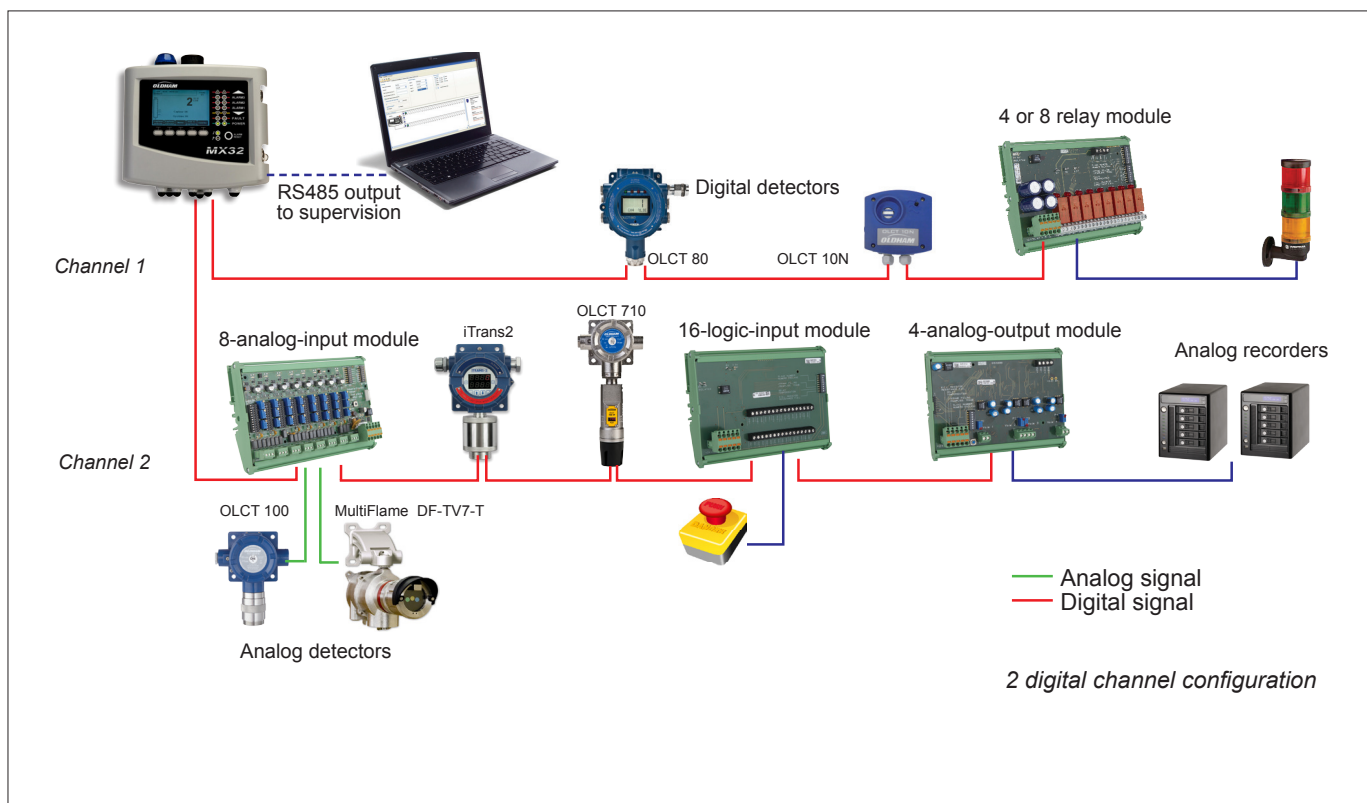
- 0- Without
- 1- With (USB cable included)

f.i: MX32-1-2-2-2-1-1 for MX32 1 channel, 100/240Vac, English, Blue strobe & horn, RS485 output et COM 32 software

## Configuration examples



— Analog signal  
 — Digital signal



|                                      |                                                                                                                                                                                                                                                                              |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                                | MX 32 gas detection control panel                                                                                                                                                                                                                                            |
| Dimensions (w*h*d)                   | 265 x 266 x 96 mm (10.4 x 10.5 x 3.8 inches)                                                                                                                                                                                                                                 |
| Ingress protection                   | IP55                                                                                                                                                                                                                                                                         |
| Cable entries (wall-mounted version) | 5 M16 cable glands, 4 to 8 mm <sup>2</sup> (8 to 11 AWG) outer diameter cable<br>2 M20 cable glands, 6 to 12 mm <sup>2</sup> (7 to 9 AWG) outer diameter cable                                                                                                               |
| Display                              | LCD back-lit display + smart keys<br>Display in grayscale mode in case of fault<br>Customizable by user (display 1 to 8 channels simultaneously, fixed or scrolling, on events...)<br>Bar graph with alarm threshold                                                         |
| Visual indicators                    | 7 LEDs per line for Detector status<br>1 common LED for Fault condition<br>1 common LED for Power condition                                                                                                                                                                  |
| Buttons                              | 5 smart keys<br>1 audible alarm accept/reset button                                                                                                                                                                                                                          |
| Operating use                        |                                                                                                                                                                                                                                                                              |
| Operating temperature                | -20°C to +50°C (-4°F to +122°F)                                                                                                                                                                                                                                              |
| Storage temperature                  | -20°C to +50°C (-4°F to +122°F)                                                                                                                                                                                                                                              |
| Humidity                             | 5 to 95% RH                                                                                                                                                                                                                                                                  |
| Power input                          | 100-240Vac 50-60Hz (35W) or 22-28Vdc (92W)                                                                                                                                                                                                                                   |
| Consumption                          | 250mA max. (without module or detector)                                                                                                                                                                                                                                      |
| Measurement lines                    |                                                                                                                                                                                                                                                                              |
| Digital lines                        | 2 maximum<br>RS-485 communication, proprietary protocol, 9600 Baud<br>2 twisted shielded-pair cable                                                                                                                                                                          |
| Analog channels                      | 2 maximum (4-20mA or Wheatstone Bridge)<br>0-23mA analog signal input (4 to 20mA reserved for measurement) or OLC 10, OLC 10Twin and OLC 100 flammable gas detectors (Wheatstone bridge type)<br>120 Ohm load resistance<br>2 or 3 core shielded cable depending on detector |
| Maximum current output per line      | 0.65 to 1A with internal AC power or 1.5A with external DC power                                                                                                                                                                                                             |
| Maximum current output in total      | 0.65 to 1A with internal AC power or 2x1.5A with external DC power                                                                                                                                                                                                           |
| Alarms                               |                                                                                                                                                                                                                                                                              |
| Per channel                          | 5 Alarm levels (A1, A2, A3, Overscale, Underscale) + 1 Fault<br>Catalytic bead over range protection<br>Programmable thresholds on instantaneous or averaged values, rising or falling alarms, manual or automatic acknowledgement                                           |
| Output                               |                                                                                                                                                                                                                                                                              |
| On-board relays                      | 4 fully programmable alarm relays + 1 fault relay (non-configurable)<br>Dry contact relay, DPCO relays, contact rating 2A / 250 Vac - 30Vdc                                                                                                                                  |
| External relays                      | Up to 16 fully programmable alarm relays<br>Dry contact relay, DPCO relays, contact rating 2A / 250 Vac - 30Vdc                                                                                                                                                              |
| Digital outputs                      | RS-485 Modbus RTU                                                                                                                                                                                                                                                            |
| Analog outputs                       | Up to 8 outputs (4-20mA)                                                                                                                                                                                                                                                     |
| Approvals                            |                                                                                                                                                                                                                                                                              |
| EMC                                  | According to EN 50270:15                                                                                                                                                                                                                                                     |
| Low voltage directive                | According to EN 61010-1:10                                                                                                                                                                                                                                                   |
| SIL 1                                | According to EN 50271:10 (pending)                                                                                                                                                                                                                                           |

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