





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.

FEATURES:

- Analog and digital controller
- Up to eight detectors
- Fully scalable
- SIL I reliability

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.



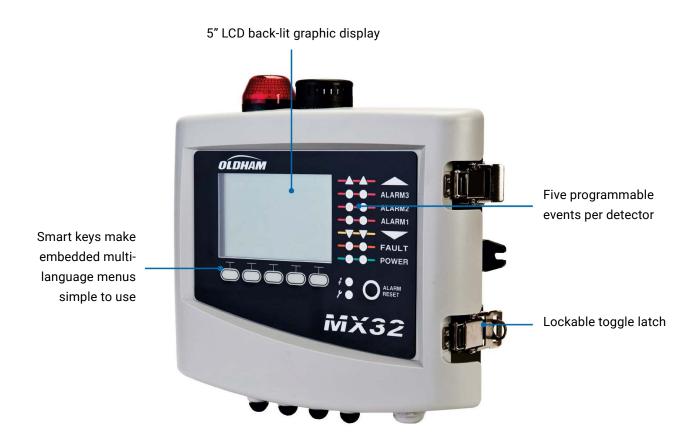
16-logic-input module

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

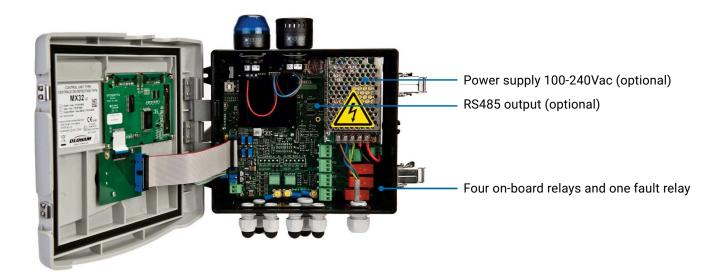


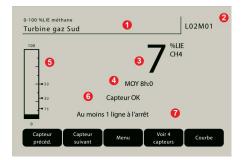
4-a nalog-output

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.



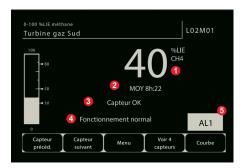
MX 32 takes analog and digital inputs and covers all needs for a wide variety of applications. The MX 32 digital technology allows up to eight detectors to be distributed on two lines for increased cost savings.





Normal Mode

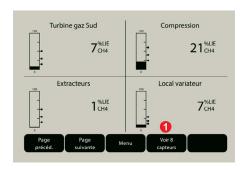
- 1. Measure Range, gas and detector tag
- 2. Detector address
- 3. Current value with unit and detected gas
- 4. Average value on the last eight hours
- 5. Bar graph with alarm threshold
- 6. Detector status (OK, OFF, FAULT)
- 7. MX 32 status information



Alarm Mode

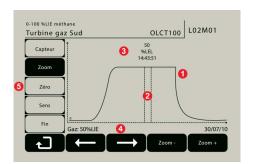
Grayscale mode in alarm conditions for immediate identification of the concerned detector.

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



Simultaneous display of several detectors

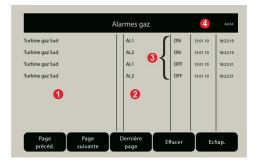
1. Up to eight detectors displayed simultaneously



Calibration curve

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

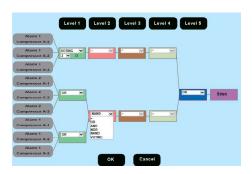
- 1. Calibration curve
- 2. Cursors for span settings
- 3. Measured value
- 4. Calibration gas value
- 5. Detector selection, zeroing and spanning



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)



COM 32 configuration software

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

ORDERING INFORMATION

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

Version	Power Supply	Language	Strobe and Audible alarm combination	RS 485 serial output	COM 32 software
1-1 channel 2-2 channels 3-Wheatstone bridge	1-24Vcd 2-100/240Vac	1-French 2-English	0-Without 1-Red 2-Blue	0-Without 1-With	0-Without 1-With (USB cable included)

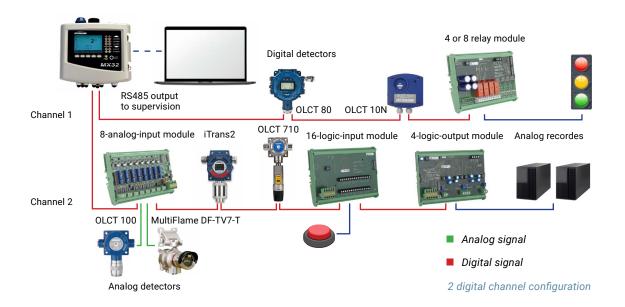
CONFIGURATION EXAMPLES



Configuration and Wheatstone Bridge



Configuration with 1 analog channel and 1 digital channel



MODEL MX 32 GAS DETECTION CONTROL PANEL

265 x 266 x 96 mm (10.4 x 10.5 x 3.8 inches) Dimensions (w*h*d)

Ingress protection IP55

5 M 16 cable glands, 4 to 8 mm2 (8 to 11 AWG) outer diameter cable **Cable entries** (wall-mounted version)

2 M20 cable glands, 6 to 12 mm2 (7 to 9 AWG) outer diameter cable

LCD back-lit display+ smart keys

Display in grayscale mode in case of fault

Display Customizable by user (display 1 to 8 channels simultaneously, fixed or scrolling,

on events ...)

Bar graph with alarm threshold

7 LEDs per line for Detector status

Visual indicators 1 common LED for Fault condition

1 common LED for Power condition

5 smart keys **Buttons**

1 audible alarm accept/reset button

OPERATING USE

Operating temperature 20°C to +50°C (-4°F to+ 122°F)

20°C to +50°C (-4 °F to+ 122°F) Storage temperature

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

2 maximum

Digital lines RS-485 communication, proprietary protocol, 9600 Baud

2 twisted shielded-pair cable

2 maximum (4-20mA or Wheatstone Bridge)

0-23mA analog signal input (4 to 20mA reserved for measurement) or OLC 10, **Analog channels**

OLC IOTwin and OLC 100 Aammable gas detectors (Wheatstone bridge type)

120 Ohm load resistance

2 or 3 core shielded cable depending on detector



MEASUREMENT LINES

Maximum current output per line	0.42A (@ 50°C) to IA (@ 30°C) with internal AC power or 1.5A with external DC power
Maximum current output for the 2 lines	0.42A (@ 50°C) to IA (@ 30°C) with internal AC power or 2xI.5A with external DC power

ALARMS

Per channel	5 Alarm levels (A 1, A2, A3, Overscale, Underscale) + 1 Fault Catalytic bead over range protection	
rei citalilei	Programmable thresholds on instantenous 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)
	Dry contact relay, DPCO relays, contact rating 5A / 250 Vac - 30Vdc
External relays	Up to 16 fully programmable alarm relays
	Dry contact relay, DPCO relays, contact rating 5A / 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
ATEX	Metrological performances according to EN 60079-29-1 :2016 and EN 50277: 10
CSA	CAN/CSA-C22.2 No. 0-10; CAN/CSA-C22.2 No. 61010-1-12; UL Std. No. 61010-1 (3 rd Edition)
Functional safety	SIL 1 capability according to EN 50271 :2010
(reliability data)	du =1,60 to 1,80.10-6, PFDavg=7, 10 to 8,02.10-3, Ti=l year, MTBF=25 to 28 years, SFF 60%