



MX 16

Controller



Presentation

The MX 16 is a compact digital or analog controller, one input, low-profile controller that continuously monitors gas detection, like:

- O₂
- CO₂
- CH₄
- H₂
- GPL

Available in Easy Duo version, a new **controller + detector + cable*** offer.

This offer applies to versions:

MX16 + OLCT 10N O₂

MX16 + OLCT 10N CO₂

Simplified configuration (no software)

Available in 4-20mA version.

Easy and also ready to use.

* 10m cable to connect detector to controller

Features

- Analog and digital controller
- Low cost and Easy to install
- 1 measurement line / up to 1 detectors
- Integrated relays
- RS-485 Signal Output (optional)



MX 16

Controller

Specially designed for applications in MRI room (with dedicated CTX 300 O₂ Helium free), laboratory, storage, small boiler room, and breweries or battery charging rooms, the MX16 measuring unit prevents the risks of explosion linked to the presence of toxic, anoxic and explosive gases in the ambient air. Small size, ease of installation and use are the main strengths of the plant. Used with the OLCT 10N O₂ and CO₂ digital sensor series or any other O₂, CO₂, CH₄, GPL and H₂ analog sensor, the MX16 guarantees you a solution that complies with French and European standards.

4" LCD back-lit graphic display

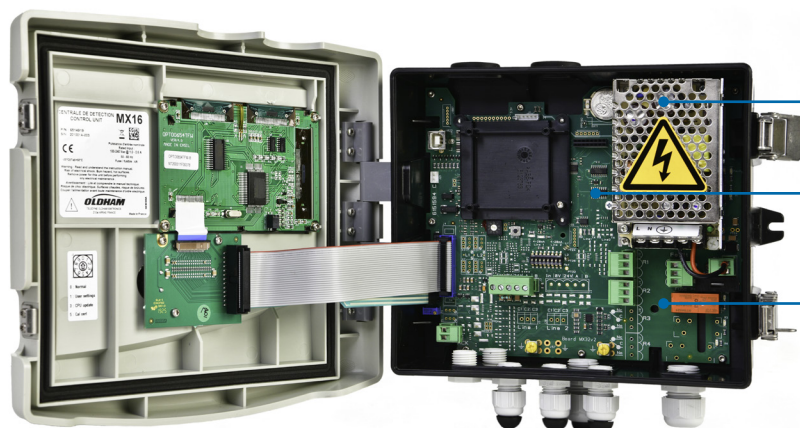
Smart keys make embedded multi-language menus simple to use



Five programmable events

Lockable padlock latch

Easy to install: requires a power connection, a cable between the control unit and the detector (supplied with the EASY DUO). It does not require configuration software (factory configured)

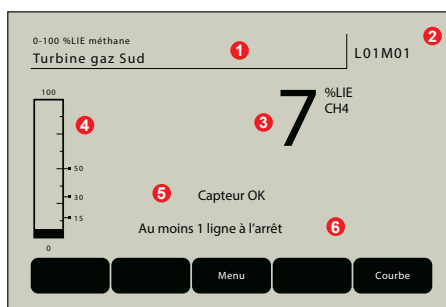


Power supply 100-240Vac (optional)

RS485 output (optional)

Two on-board relays and one fault relay

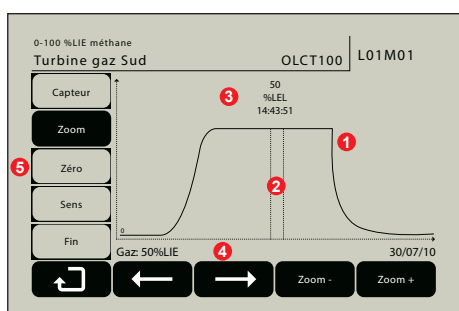
Normal mode



- 1 Measure Range, gas and detector tag
- 2 Detector address
- 3 Current value with unit and detected gas
- 4 Bar graph with alarm thresholds
- 5 Detector status (OK, OFF, FAULT)
- 6 MX 16 status information

Calibration curve

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



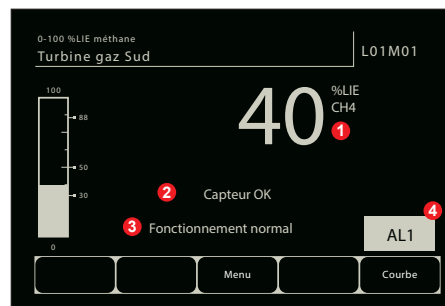
- 1 Calibration curve
- 2 Cursors for span settings
- 3 Measured value
- 4 Calibration gas value
- 5 Detector selection, zeroing and spanning

Ordering information

REF	Digital version MX16 EASYDUO
MX16-N-1-0-0-0	Easy Duo* Digital controller MX16 with OLCT10N O ₂ (0-30% Vol. - cell 2 years lifespan)
MX16-N-1-1-0-0	Easy Duo* Digital controller MX16 with OLCT10N O ₂ (0-30% Vol. - cell 2 years lifespan), with RS485 output
MX16-N-2-0-0-0	Easy Duo* Digital controller MX16 with OLCT10N CO ₂ (0-5% Vol.)
MX16-N-2-1-0-0	Easy Duo* Digital controller MX16 with OLCT10N CO ₂ (0-5% Vol.), with RS485 output
REF	Analog version MX16
MX16-A-3-0-0-0	Analogic controller MX 16**, 1 input 4-20mA, O ₂ configured (0-30% Vol.)
MX16-A-3-1-0-0	Analogic controller MX 16**, 1 input 4-20mA, O ₂ configured (0-30% Vol.), with RS485 output
MX16-A-4-0-0-0	Analogic controller MX 16**, 1 input 4-20mA, CO ₂ configured (0-5% Vol.)
MX16-A-4-1-0-0	Analogic controller MX 16**, 1 input 4-20mA, CO ₂ configured (0-5% Vol.), with RS485 output
MX16-A-5-0-0-0	Analogic controller MX 16**, 1 input 4-20mA, CH ₄ configured (0-100% LIE)
MX16-A-5-1-0-0	Analogic controller MX 16**, 1 input 4-20mA, CH ₄ configured (0-100% LIE), with RS485 output
MX16-A-6-0-0-0	Analogic controller MX 16**, 1 input 4-20mA, LPG configured (0-100% LIE)
MX16-A-6-1-0-0	Analogic controller MX 16**, 1 input 4-20mA, LPG configured (0-100% LIE), with output RS485
MX16-A-7-0-0-0	Analogic controller MX 16**, 1 input 4-20mA, H ₂ configured (0-100% LIE)
MX16-A-7-1-0-0	Analogic controller MX 16**, 1 input 4-20mA, H ₂ configured (0-100% LIE), with output RS485

Alarm mode

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



- 1 Current value with unit and detected gas
- 2 Detector status (OK, OFF, FAULT)
- 3 MX 16 status information
- 4 Detector in alarm

Data-logging

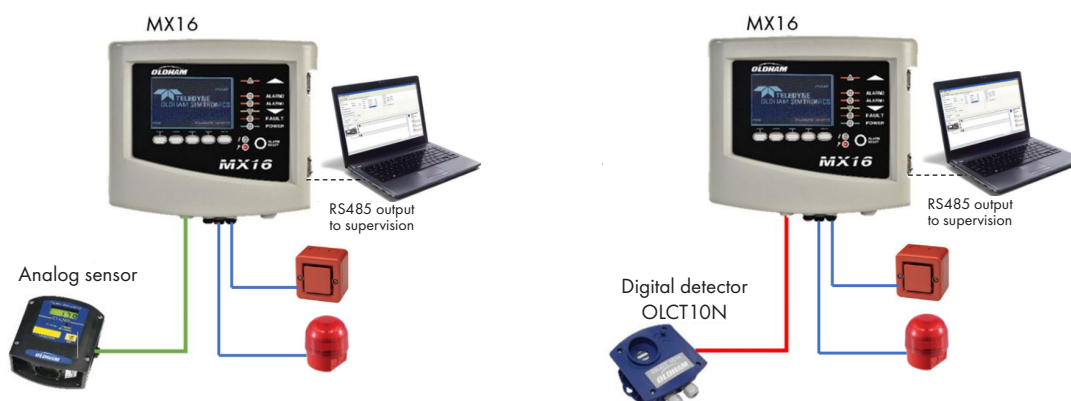
By default, the MX 16 can store up to 512 alarm events, 512 fault events and 512 system events.

Alarmes gaz		64/64	
Turbine gaz Sud	AL1	ON	13 01 10 18:22:19
Turbine gaz Sud	AL2	ON	13 01 10 18:22:19
Turbine gaz Sud	AL1	OFF	13 01 10 18:22:31
Turbine gaz Sud	AL2	OFF	13 01 10 18:22:31

Customization :

- Detector label
- Alarm thresholds
- Password protection
- Digital output
- Display language

Configuration example



Technical data

Model	MX 16 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)	3 M16 cable glands, 4 to 8 mm ² 2 M20 cable glands, 6 to 12 mm ²
Display	LCD back-lit display + smart keys Display in grayscale mode in case of fault Bar graph with alarm threshold
Visual indicators	6 LEDs 5 LEDs for Detector status line 1 common LED for Fault condition 1 common LED for Power condition
Buttons	5 smart keys 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	100-240Vca 50-60Hz (35W)
Consumption	250mA max. (without detector)

Measurement lines

Digital lines	RS-485 communication, proprietary protocol, 9600 Baud 2 twisted shielded-pair cable
Analog channels	1 (4-20mA) 0-23mA analog signal input (4 to 20mA reserved for measurement) 120 Ohm load resistance 2 or 3 core shielded cable depending on detector
Maximum current output per line	0,42A (@ 50°C) to 1A (@ 30°C) with internal AC power

Alarms

Per channel	4 Alarm levels (AI1, AI2, Overscale, Underscale) + 1 fault Dispute doubt for explosive gases Accessible and modifiable alarm threshold AI1 and AI2, manual acknowledgment
	Configuration of thresholds as standard: <ul style="list-style-type: none"> • O₂ : decreasing threshold • CO₂/CH₄/LPG/H₂ : increasing threshold

Output

On-board relays	2 alarm relays + 1 fault relay (non-configurable), positiv security Dry contact relay, RCT, 5A / 250Vca – 30Vcc
Digital outputs	RS-485 Modbus RTU

Approvals

EMC	According to EN 50270:15
Low voltage directive	According to EN 61010-1:10

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