

MX43

- Analog and digital controller
- 4 or 8 lines /
16 to 32 detectors max
- Highly versatile controller
- Cost savings
on wiring installation



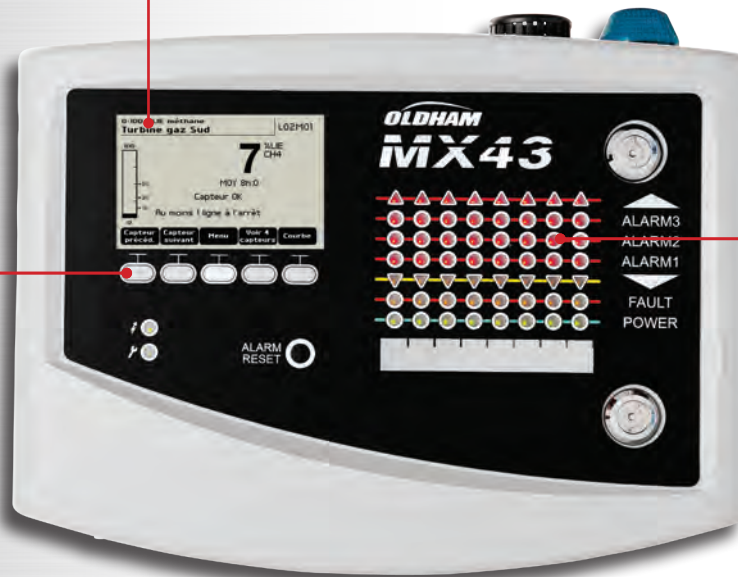
MX 43

Controller presentation

The MX 43 is an analog and digital controller designed for the continuous measurement and control of the gases present in the atmosphere and for 4-20 mA or digital contact signal.

Large graphic display

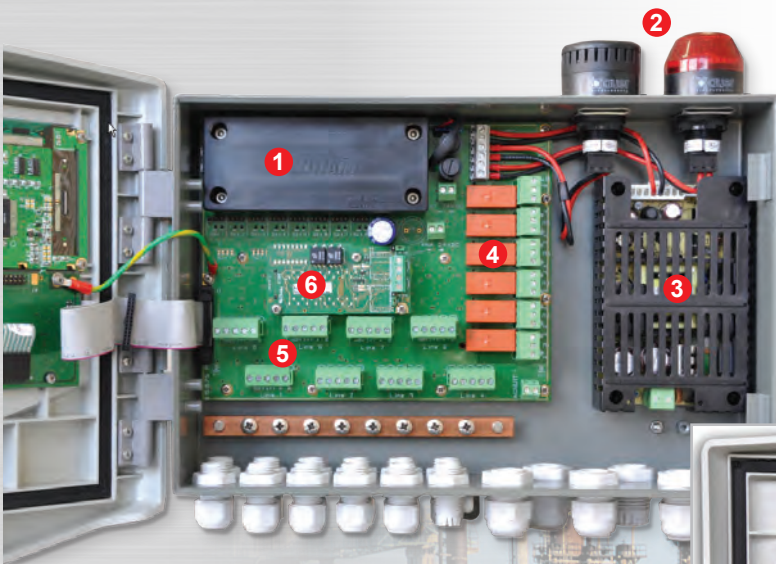
Smart keys make
embedded menus
simple to use



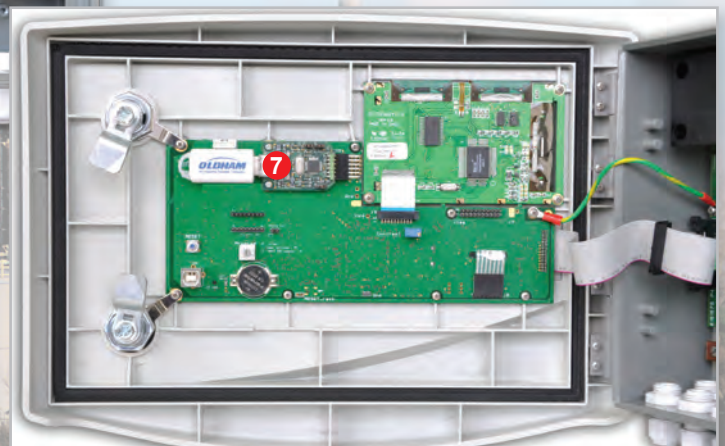
Front panel
LEDs allow
a quick
and basic
overview of the
installation.

MX 43 manages both digital lines and analog channels, and covers all needs for a wide variety of applications.

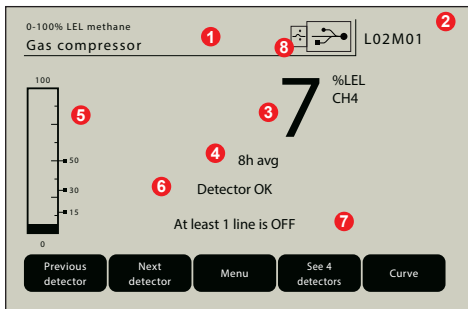
The MX 43 digital technology allows up to 32 detectors to be distributed on 8 lines for increased cost savings.



- 1 Back-up battery
- 2 Strobe and horn
- 3 Power supply
- 4 On-board relays
- 5 Removable terminals
- 6 RS485 output
- 7 USB datalogging kit



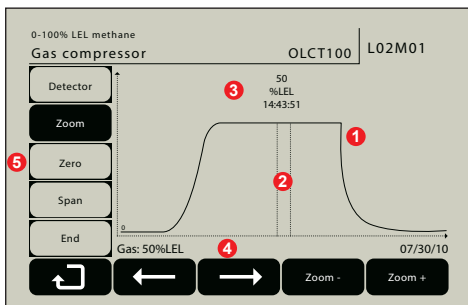
Normal Mode



- 1 Measurement range, gas and detector tag
- 2 Detector address
- 3 Current value with unit and detected gas
- 4 Averaged value on the last 8 hours
- 5 Bar graph with alarm thresholds
- 6 Detector status (OK, OFF, fault)
- 7 MX 43 status information
- 8 Records on progress

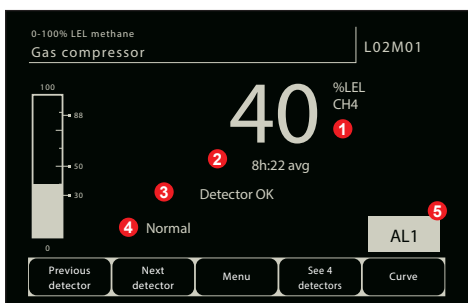
Calibration Curve

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

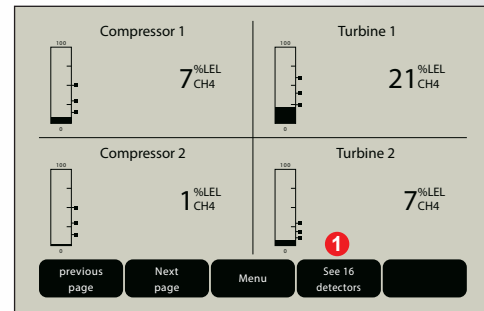
Alarm mode



Reverse video in alarm conditions for immediate identification of the concerned detector.

- 1 Current value with unit and detected gas
- 2 Averaged value on the last 8 hours
- 3 Detector status (OK, OFF, fault)
- 4 MX 43 status information
- 5 Detector in alarm

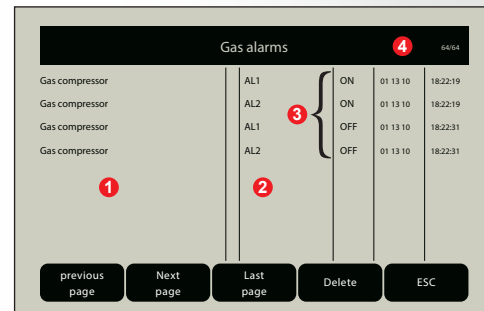
In 4-channel display



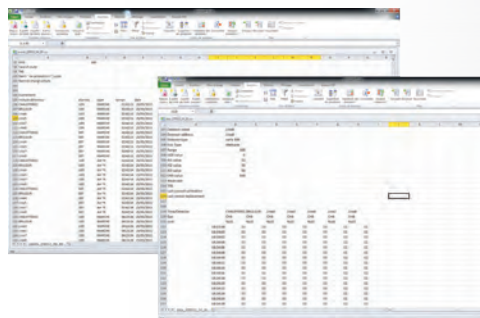
- 1 Up to 16 detectors can be displayed simultaneously

Data-logging

By default, the MX 43 can store up to 512 alarm events, 512 fault events and 512 system events.



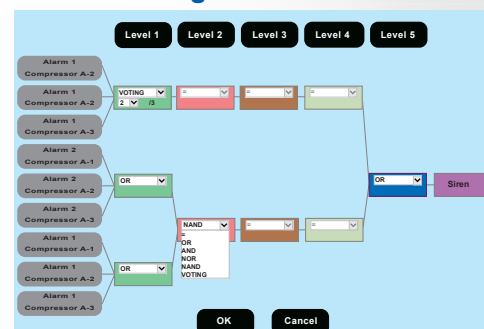
- 1 Detector tag
- 2 Event
- 3 Date and time of events appearance or clearance
- 4 Page number (up to 64 pages)



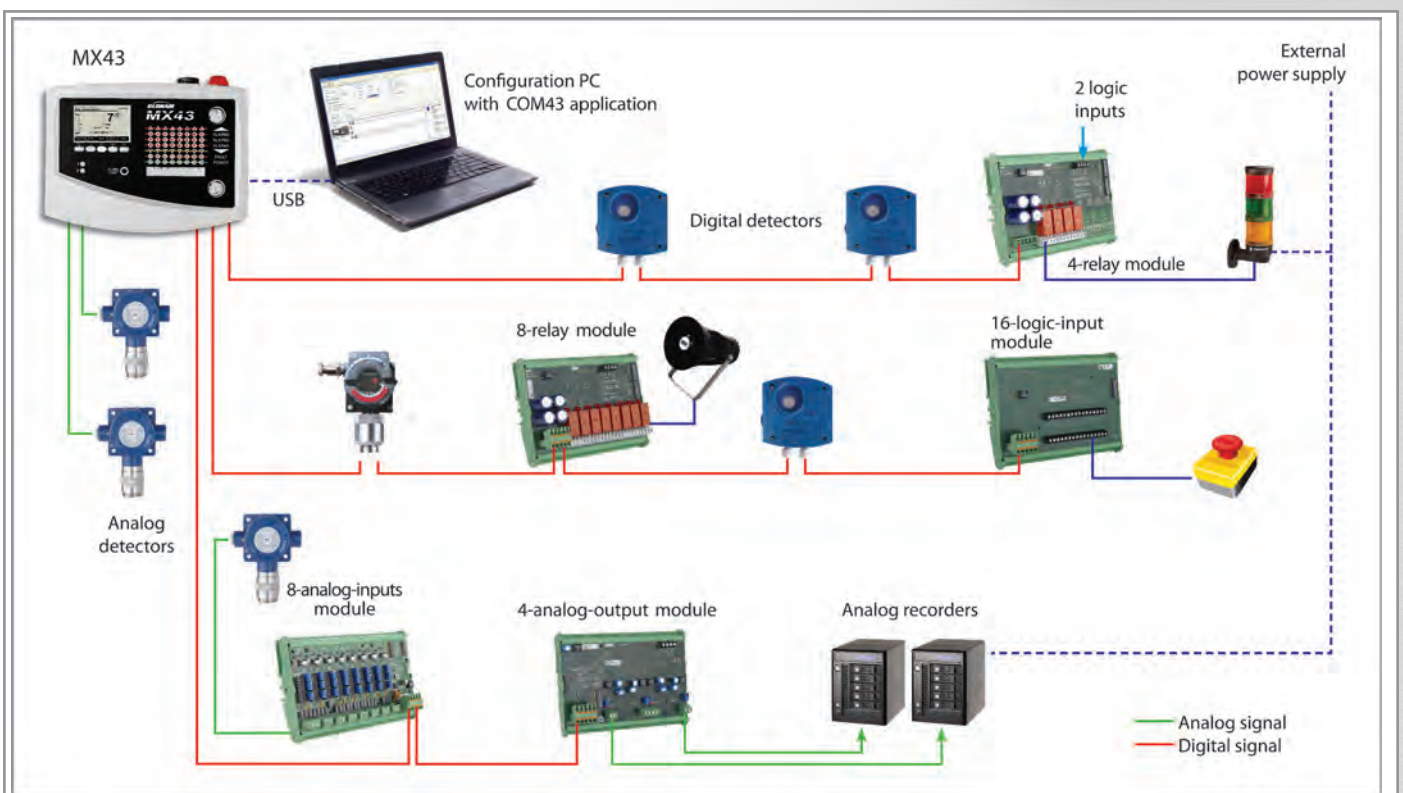
The USB option enables gas measurements to be saved at a sampling rate of 2 seconds to 15 minutes while events are saved when they happen.

The 4 Gb USB drive provides more than 2 years of storage in most of configurations. The USB option also delivers the ability to save and restore configuration and firmware files.

COM 43 configuration software



- 1 Simple relay programming
- 2 Up to 5 embedded functions: OR, AND, NOR, NAND, VOTING
- 3 Several timers available
- 4 Advanced management of audible alarms (acknowledgment, reactivation, evacuation)



SPECIFICATIONS

Model	MX 43 gas detection control panel
Dimensions (wall-mounted version)	370 x 299 x 109 mm (14.6 x 11.8 x 4.3 inches)
Dimensions (rack)	19", 4U ; 482.8 x 177 x 192.5 mm (19.1 x 7 x 7.6 inches)
Ingress protection	IP55 (wall-mounted), IP31 (rack)
Cable entries (wall-mounted version)	12 M16 cable glands, 4 to 8 mm ² (8 to 11 AWG) outer diameter cable 6 M20 cable glands, 6 to 12 mm ² (7 to 9 AWG) outer diameter cable
Display	LCD back-lit display + smart keys Display in video inverse in case of fault Customizable by user (display 1 to 16 channels simultaneously, fixed or scrolling, on events...) Bar graph with alarm threshold
Visual indicators	7 LEDs per line 1 LED fault indicator 1 LED fault indicator
Buttons	5 smart keys 1 audible alarm accept/reset button
Operating use	
Operating temperature	-20°C to +50°C
Storage temperature	-20°C to +50°C
Humidity	5 to 95% RH
Power	100-240 Vac 50-60 Hz or 21-28 Vdc, 112 W max
Battery	Embedded back up power supply in option (0.6 Ah)
Consumption	500 mA min (without module)
Measurement lines	
Digital lines	8 maximum RS-485 communication, proprietary protocol, 9600 Baud 2 twisted shielded-pair cable
Analog channels	8 maximum 0-23 mA analog signal input (4 to 20 mA reserved for measurement) 120 Ohm load resistance 2 or 3-core shielded cable
Voltage (typical)	21 to 28Vdc
Maximum current output per line	1.2 A (1.5 A intermittently)
Maximum current output in total	2.4 A permanent (3.2 A intermittently)
Alarms	
Per channel	5 alarm levels (A1, A2, A3, Overscale, Underscale) + Fault Non-ambiguity reading option for combustible gases monitoring
Programmable thresholds	On instantaneous ou averaged values, rising or falling alarms, manual or automatic acknowledgement
On-board relays	5 fully programmable alarm relays 1 fault relay (non-configurable) Dry contact relay DPCO relays with contact rating of 250 Vca 2 A (inductive)
Digital outputs	RS-485 Modbus RTU serial link
Approvals	
EMC	According to EN50270
ATEX	EN50271 and metrological performances according to EN60079-29-1
Low Voltage Directive	According to EN61010
CSA	Pending
MTBF	20 years (4 lines, powered with 24 Vdc)
	17 years (8 lines, powered with 24 Vdc)
MED	According to Marine Equipment Directive 96/98/EC. Fulfills the EMC requirements for installation in General Power Distribution Zone and/or Deck Zone.

Our fixed detector range



OLCT 10



OLCT 10N



CTX 300



OLCT 100



iTrans 2



OLCT 80



OLCT 60



OLCT 60 / OLCT IR



OLCT IR



SafEye



Sharpeye



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.