MX43

- Analog and digital controller

- 4 or 8 lines / 16 to 32 detectors max

- Highly versatile controller

- Cost savings on wiring installation

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The Fixed Gas Detection Experts

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.
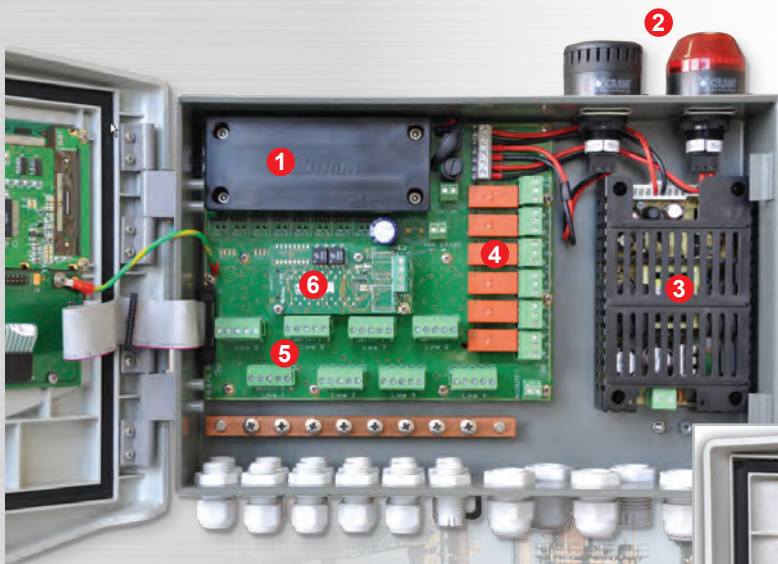
Large graphic display

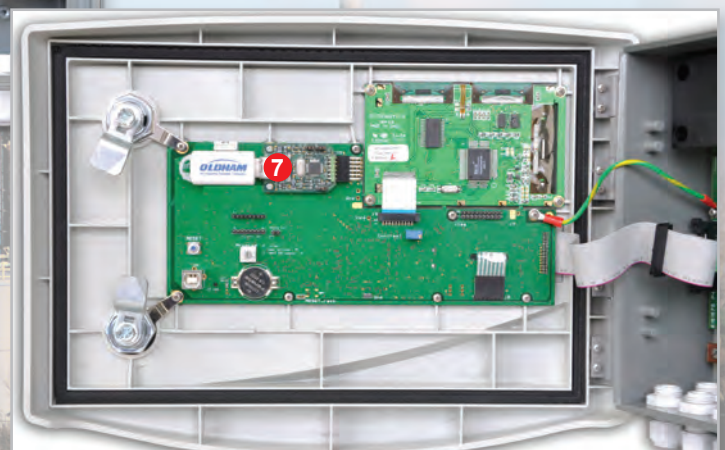**Smart keys make embedded menus simple to use**

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.
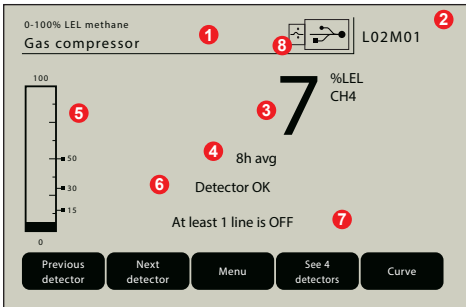

1 Back-up battery
2 Strobe and horn
3 Power supply
4 On-board relays
5 Removable terminals
6 RS485 output
7 USB datalogging kit
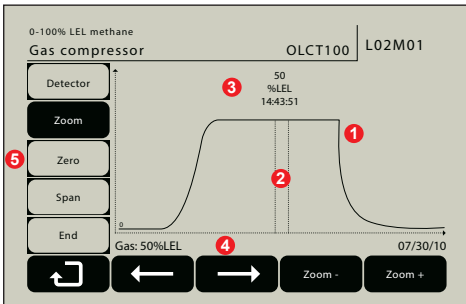
Normal Mode

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

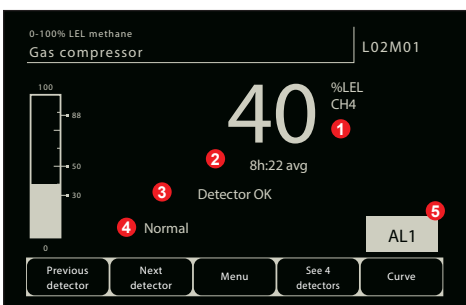## Calibration Curve

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
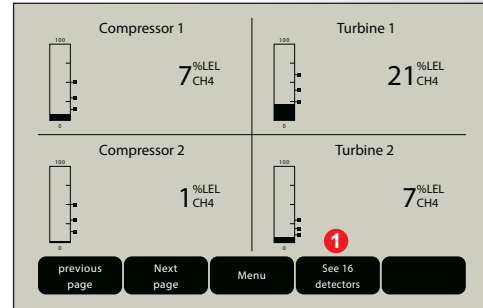5 Detector selection, zeroing and spanning

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)
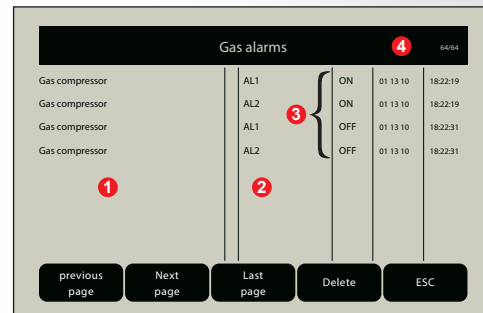4 MX 43 status information
5 Detector in alarm
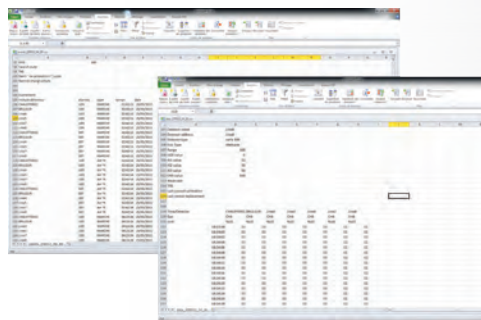
In 4-channel display

1 Up to 16 detectors can be displayed simultaneously

Data-logging

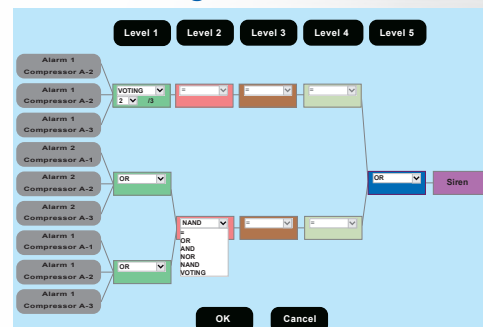**By default, the MX 43 can store up to 512 alarm events, 512 fault events and 512 system events.**

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)

Modules

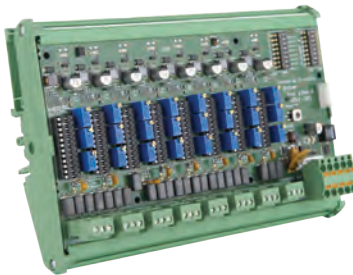Different modules can be connected to the controller:

4 or 8-relay module

4 or 8-programmable-relay module can be located closer to the actuators 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.

8-analog-input module

This module enables standard analog transmitters (gas or flame detectors for instance) to be connected on a digital line for cost savings.

4-analog-output module

Addressable 4- analog-output module which delivers 4 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.

Configuration example