



THE DIGITAL AND ANALOGUE MX 43 OLDHAM CONTROL PANEL THAT CAN SUPPORT UP TO 32 DETECTORS, TO KEEP INSTALLATION COSTS DOWN.

The MX 43 was designed in response to user requirements in terms of flexibility, quality and ease of use.

The MX 43 is a digital and analogue control panel designed to measure gases present in the atmosphere and more generally to process any 4-20mA signal or digital contact.

Thanks to its digital technology, the MX 43 can be used to connect up to 32 detectors across its 8 lines, contributing to reducing cabling costs.



TECHNICAL DATA

Size (wall-mounted version)	14.6 X 11.8 X 4.3 in. (37.0 x 29.9 x 10.9 cm)
Size (rack)	19.1 X 7 x 7.6 in. (19", 4U) (48.3 X 17.7 x 19.2 cm)
Protection Class	IP55 (wall-mounted), IP31 (rack)
Cable entries (wall-mounted version)	12 M16 cable glands, 4-8 mm ² (8-11 AWG) out. Øcable 6 M20 cable glands, 6-12 mm ² (7-9 AWG) out. Øcable
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 for detector status 1 Common LED for fault condition 1 Common LED for power indicator
Buttons	5 Smart keys 1 Audible alarm accept/reset button
Datalogger	512 alarms, 512 defaults and 512 system defaults max.
Digital outputs	RS-485 modbus RTU serial link
Operating temperature	-4°F to +122°F (-20°C to +50°C)
Storage temperature	-4°F to +122°F (-20°C to +50°C)
Humidity	5 to 95% RH, non condensing
Power supply	100-240 Vac 50-60 Hz or 21-28 vdc, 112 W max
Consumption	Embedded back up power supply in option (0.6 Ah)
Battery	500 mA min (without module)
Approvals	
EMC	According to EN50270
ATEX	EN50271 and metrological performances according to EN60079-29-1
Low voltage directive	According to EN61010
SIL1	According to EN50271:2010
MED	According to marine equipment directive 96/98/EC. Fulfills the EMC requirements for installation in general power distribution zone and/or deck zone.

FEATURES

INPUT SPECIFICATIONS

Available lines:

Maximum of 8 digital lines (up to 32 detectors)
RS-485, proprietary protocol, 9600 baud
Industrial network cable: 2 shielded twisted pairs
Maximum of 8 analogue channels
0-23mA signal input (4-20mA reserved for measurement)
120 Ohm load resistance, 2 or 3 shielded wires

Nominal voltage: 21 to 28V DC on external power supply

Maximum current available per line: 1.2A (1.5A intermittently)

Maximum total current for the lines: 2.4 A continuous or 3.2A intermittently

ALARMS

Relays: five fully configurable alarm relays and one fault relay (non-configurable)
Dry contacts RCT contact on each relay: 2A/250V AC - 30V DC (resistive charge)

Alarms per channel: five alarm levels (A11, A12, A13, overscale, underscale) + high-concentration fault for explosive gases

Programming: for instantaneous or averaged values, by increasing or decreasing values, and manual or automatic rearming

AVAILABLE MODULES FOR MX32 OR MX43 CONTROL PANEL



EIGHT-ANALOGUE-INPUT MODULE

Addressable eight-analogue-input module that can support all types of transmitter with a 4-20mA output (gas, flame and temperature detectors, etc.)



FOUR-ANALOGUE-OUTPUT MODULE

Addressable four-analogue-output module (detector repeat output, min., max., average of a group of detectors) for connection to a datalogger, a PLC or a BMS, etc.



16-LOGIC-INPUT MODULE

Addressable 16-logic-input module that can receive all on-off control information such as emergency stop, limit switch activation, and fire or intrusion alarms, etc.



FOUR- OR EIGHT-RELAY MODULE

Addressable four- or eight-programmable-relay module that can be located as close as possible to the controlled devices to reduce cabling costs.

ONLY FOR MX43 CONTROL PANEL



The USB option enables gas measurements to be saved at a rate of 2 seconds to 15 minutes, while events are logged as and when they occur. The 4Gb USB drive has a storage capacity of over 2 years in most configurations. The USB option also makes it possible to save and restore configuration and firmware files.

ASSOCIATED FIXED DETECTOR RANGE



OLCT 10



OLCT 10N



CTX 300



OLCT 100



OLCT 60



OLCT 80



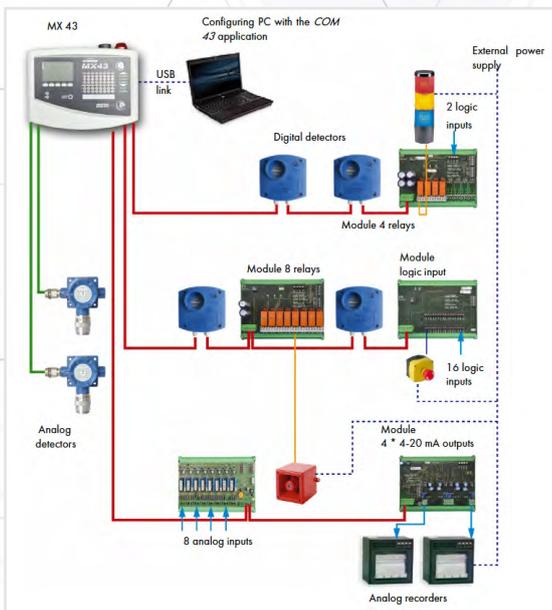
SAFEYE



SHARPEYE

ASSOCIATION EXAMPLE

MX43



MX32 V2

