

MX 43



FEATURES	BENEFITS
<p>Analog and digital controller</p> <p>4 or 8 channels</p> <p>From 16 to 32 detectors</p> <p>Addressable modules</p>	<p>Modules can be located closer to the actuators for cost savings.</p> <p>MX43 is a versatile controller available in 4 or 8 channel versions.</p> <p>In the 4-channel version, up to 16 modules can be distributed with the following limitations:</p> <ul style="list-style-type: none"> - 8 additional relays - 16 logic inputs - 16 analog outputs <p>In the 8-channel version, up to 32 modules can be distributed with the following limitations:</p> <ul style="list-style-type: none"> - 24 additional relays - 32 logic inputs - 32 analog outputs
<p>6 on-board relays</p> <p>+ 2 open collectors output</p>	<p>The standard MX43 has:</p> <ul style="list-style-type: none"> - 2 transistor outputs for monitoring the on-board audible and visual alarms - 6 on-board relays: 1 relay for fault condition and 5 relays (R1 to R5). <p>On-board relays (R1 to R5) are fully programmable, and can be set as energized or de-energized relays. They can be programmed with COM43 in two modes:</p> <ul style="list-style-type: none"> - Standard mode: usual rules for alarm acknowledgement. Alarms can be reset only if the alarm event has disappeared. - Buzzer mode: Alarms can be acknowledged even if the event is still present. This mode is often used for horn monitoring. Time delay can also be programmed: <ul style="list-style-type: none"> . Inhibit reset: set the minimum activation time between 0 and 900 seconds . Automatic reset: between 15 and 900 seconds before buzzer stops . Reactivation time: between 15 and 900 seconds before buzzer relay is reactivated. <p>Driving alarm relays:</p> <ul style="list-style-type: none"> - By boolean functions OR, AND, NOR, NAND. Up to 4 levels. - Voting function (x out of y): The relay activates if x events are active among y monitored events. Option: a failed detector can be considered as in alarm, if involved in voting formula. <p>The relay for fault condition is non configurable and always energized.</p>
<p>Data logging</p>	<p>The MX43 can store up to 512 alarm events + 512 fault events + 512 system events.</p> <p>In addition, values for each transmitter are continuously saved.</p> <p>Last 200-minute-periods can be displayed on request on the large LCD screen as curves.</p>
<p>Large graphic LCD</p>	<p>Displayed for each channel: detector tag, range, current value, detector status, alarm thresholds, detector address.</p> <p>Reverse video in alarm conditions for immediate identification of the concerned detector.</p> <p>Up to 16 detectors can be displayed simultaneously.</p> <p>Allows curves to be displayed on the LCD screen.</p>
<p>Strobe and horn</p>	<p>Used to emphasize alarms in noisy or dark environments. Factory mounted (not mounted on demand).</p>
<p>Controller front panel LEDs</p>	<p>Allows a very quick and basic overview on the whole installation.</p> <p>7 LEDs per zone:</p> <ul style="list-style-type: none"> - On/Off - AI1, AI2, AI3 - Default - UDS (Underscale) - OVS (Overscale) <p>With COM43 configuration software, you can set any detector as part of a zone.</p>
<p>Customized alarm levels</p>	<p>5 events can be set per detector (alarm 1 to 3, Underscale and Overscale) with optional management of the non ambiguity reading.</p> <p>Manual or automatic acknowledgement.</p>

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Analog-input-module	<p>MX43 controllers fitted with one 4 or 8-analog-input module have been created to replace respectively MX42 and MX48 controllers in such circumstances. Thus, customers keep the existing sensors and wiring.</p> <p>Note that these versions of MX43 should be exclusively used for this purpose (replacement of a MX42 or MX48 connected with mV flammable gas detectors).</p> <p>This module enables standard analog transmitters (gas or flame detectors for instance) to be connected on a digital line for cost savings.</p>
4 to 8 relay modules, with 2 logic inputs included	<p>Each relay can be set via COM43 configuration software (OR, AND, NOR, NAND, VOTING), energized or de-energized, normally open or normally closed, contact rating 2A/250VAC/30VDC. 2 logic inputs allow digital information monitoring.</p>
4-analog-output module	<p>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.</p>
Digital output (coming soon)	<p>Allows connection to PLC.</p>
USB Port (coming soon)	<p>Allows data downloading.</p>
COM43 configuration software	<p>User friendly software that allows simple and fast programming of the system.</p>
Controller access	<p>The access to submenus is protected by two security levels (2 passwords), the first one is required for light maintenance operations whereas the second allows you to change anything.</p>
Configuration	<p>Once the passwords have been entered, you'll be able from the controller to change alarm thresholds, descriptions or to turn ON/OFF the lines and detectors.</p> <p>All parameters can be configured by using the COM43 configuration software tool.</p>
Rack or Wall mounting version	<p>Rack version 19" 4U (482.8 x 177 x 192.5 mm / 19.01 x 6.97 x 7.58 inches), IP31. Wall mounting version (370 x 299 x 109 mm / 14.57 x 11.77 x 4.29 inches), IP55.</p>
Batteries	<p>The MX43 has an optional battery to place into the cabinet to provide battery back up during short power interruptions. This battery provides a 1-hour runtime when transmitters with electrochemical sensors are monitored.</p>
Multilingual controller	<p>Spoken languages: French, English, German, Chinese (more to come).</p>
5 smart keys	<p>Make embedded menus very simple to use.</p>
Automatic calibration	<p>Simplified procedure that enables time savings (i.e. non-intrusive and one-man calibration).</p> <p>For each detector the following info is also kept in memory and can be displayed on request:</p> <ul style="list-style-type: none"> - Date of last calibration - Span reserve - Calibration curves
Info system menu	<p>You will find in this menu all system information like module communication status, relays status, power supply status, etc.</p>

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