


# GAS MONITOR


## MX 42 A

CH<sub>4</sub>, CO, O<sub>2</sub>, H<sub>2</sub>S

CO<sub>2</sub>, NH<sub>3</sub>, Cl<sub>2</sub>, O<sub>3</sub>, NO, H<sub>2</sub>, HCN, SiH<sub>4</sub>,

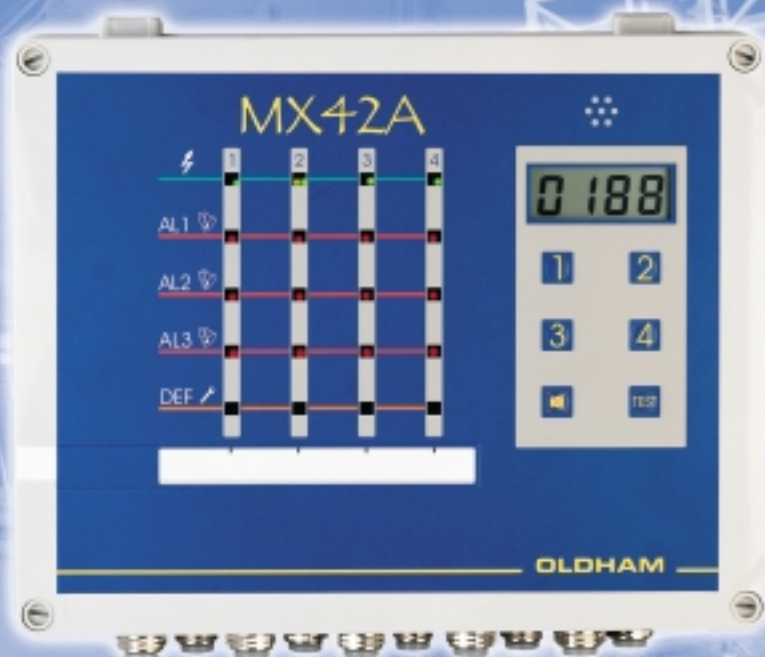
 Up to 4 channels

 Clear measurement's indication

 3 gas alarm thresholds  
1 defaults alarm

 Built-in relays

 Continuous self-checking



CE

# OLDHAM

Your environment, your safety,  
let's master them together

*Together we'll make your operations safe*



*Example of application: boiler plant control unit*

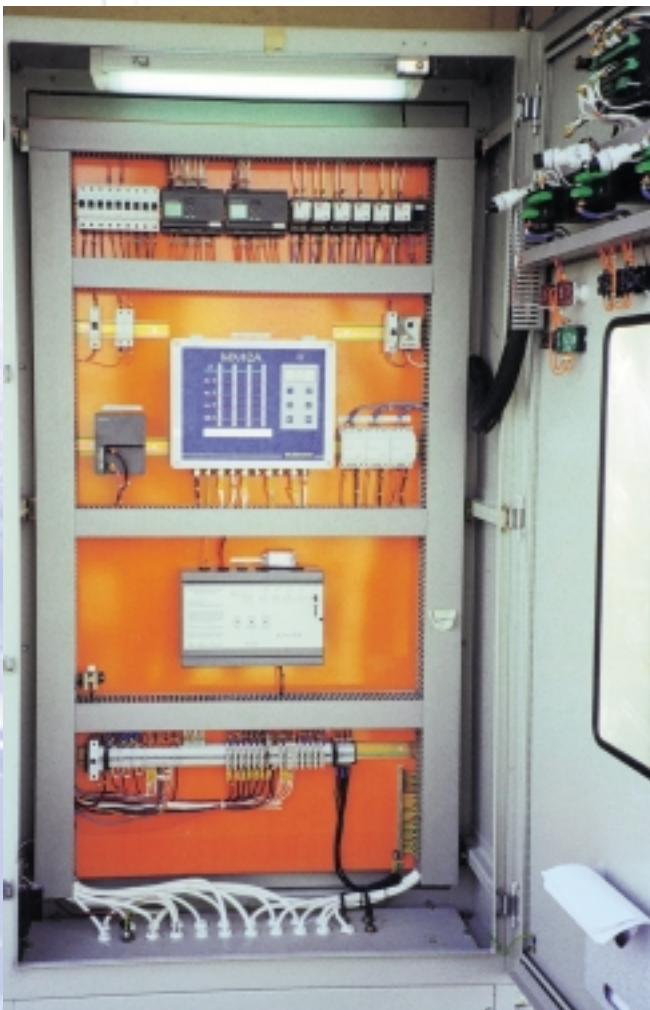
*The MX 42 A gas and flame measuring and alarm control unit provides you with the perfect response to your need to ensure the safety of your equipment and personnel for work in environments which may contain explosive or toxic gases.*

*It is connected to the corresponding detectors to efficiently solve your gas detection problems whether in industry, in boiler plants or in car parks.*

*The MX 42 A can be adapted for one to four separate channels to provide a customized detection system and extremely flexible programming.*

*The MX 42 A also complies with European directives.*

## *MX 42 A : combining prevention, detection and action*



The **MX 42 A** can be fitted with one detector per channel in the industrial version and with CO or NO<sub>x</sub> detectors in the vehicle park version. The detection capability which is perfectly tailored to your requirements ensures highly effective prevention. The alarm is triggered as soon as the value measured on one of the channels exceeds the corresponding set points.

The relay or relays activate the corresponding slave control systems. For the 3<sup>rd</sup> threshold, it is also possible to program alarms on the basis of mean values or in time-delayed mode. A special vehicle park software package manages differentials of low and high engine speeds.

*Layout in electric equipment cabinet*

# Enhanced ergonomics and performances

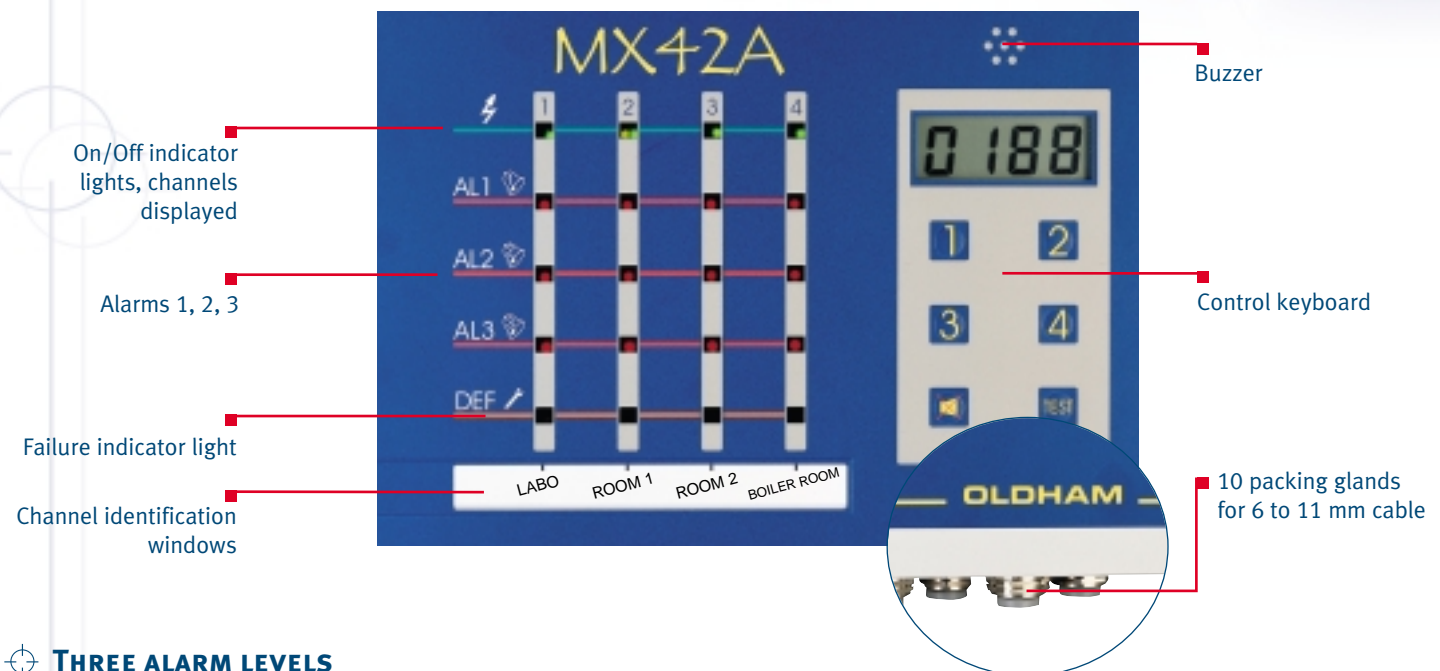
## USER-FRIENDLY

- Easy to adjust
- Wall-mounted housing
- Quick and easy to install
- Power supply : 230 V AC or 115 V AC and 24 V DC (48 V DC on option)

## CLEAR MESSAGES

- Clearly LCD display unit
- Display in cyclic mode or direct mode by keypad
- Alarm status faults indicated by LEDs

## ERGONOMIC FRONT PANEL



## THREE ALARM LEVELS

- 3 separate alarm levels per channel, programmed in the factory and adjustable by the user
- Built-in relay system compatible with the control logic of fans and extractors, where applicable

## OPTIMAL EQUIPMENT

- 2 separate relays per CT or RT channel on 1<sup>st</sup> or 2<sup>nd</sup> threshold
- Common relay in case of failure
- Analogue output by measuring channel

## RELIABLE CONTROL UNIT

- Protection against electromagnetic disturbances
- Access to protected maintenance menu
- Complete failure monitoring (detectors, control unit and line faults)
- Managed by microprocessor

# TECHNICAL CHARACTERISTICS

<b>MANUFACTURER :</b>	• OLDHAM SA
<b>FUNCTION :</b>	• Alarm and gas monitor
<b>CAPACITY :</b>	• 1 to 4 channels
<b>DISPLAY :</b>	• Clearly readable LCD
<b>HOUSING :</b>	• Wall-mounted, polycarbonate IP 54

<b>FAULT ALARMS :</b>	
<b>DEFAULT ALARMS :</b>	<ul style="list-style-type: none"> <li>• Yellow LED</li> <li>• Constant monitoring of measuring line</li> <li>• If you exceed 1/2 hour maintenance operating time</li> </ul>

<b>GAS ALARMS :</b>	<ul style="list-style-type: none"> <li>• 3 independent thresholds</li> <li>• 3 specific red indicator lights</li> <li>• Rising or falling thresholds</li> <li>• Automatic or manual clearing (on thresholds 1 and 2), automatic clearing on threshold 3</li> <li>• 3<sup>rd</sup> threshold instantaneous, based on mean value or time-delayed (programmable as required)</li> <li>• Thresholds 1 and 2 comply with control logic of extractors (programming)</li> </ul>
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<b>AUDIBLE ALARMS :</b>	<ul style="list-style-type: none"> <li>• Following failure sequence and measurement alarm</li> <li>• Optional</li> </ul>
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<b>RELAYS :</b>	<ul style="list-style-type: none"> <li>• 2 independent relays per CT or RT channel (programming) on 1<sup>st</sup> and 2<sup>nd</sup> threshold</li> <li>• Common relay on threshold 3</li> <li>• Common failure relay</li> <li>• Positive safety on alarm</li> <li>• Inhibition during maintenance function</li> </ul>
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<b>INPUT MEASUREMENT :</b>	<ul style="list-style-type: none"> <li>• 1 explosimetric, toxic gas or oxygen detector per channel</li> <li>• Up to 5 CO detectors per channel (vehicle park version)</li> <li>• Loop line resistance</li> <li>• Explo., 3 wire : 16 Ω (500 m of cables, 1.5 mm<sup>2</sup>)</li> <li>• 4-20 mA, 2 wire : 32 Ω (1,000 m of cables, 1.5 mm<sup>2</sup>)</li> </ul>
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<b>SIGNAL OUTPUT :</b>	<ul style="list-style-type: none"> <li>• 4-20 mA per channel, load resistance 600 Ω max.</li> </ul>
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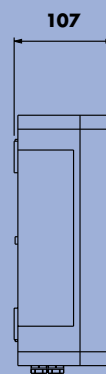
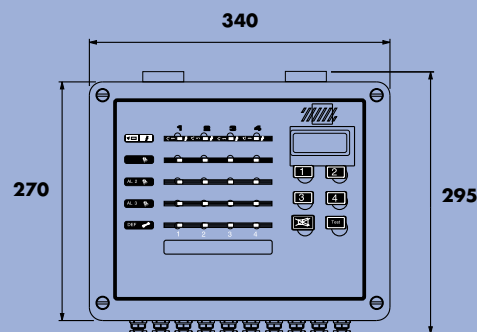
<b>POWER SUPPLY :</b>	<ul style="list-style-type: none"> <li>• 115 V AC (+6 % -10 %) 50/60 Hz</li> <li>• 230 V AC (+6 % -10 %) 50/60 Hz</li> <li>• 19 to 30 V DC</li> <li>• 36 to 60 V DC on option</li> <li>• Monitoring by indicator light on each channel</li> <li>• Max. power consumption : 85 V/A or 67 W</li> </ul>
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<b>MISCELLANEOUS :</b>	<ul style="list-style-type: none"> <li>• Indication of channel displayed</li> <li>• Keyboard for acknowledgement, display and maintenance</li> <li>• Operating temperature : -10°C to +50°C</li> </ul>
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<b>DIMENSIONS :</b>	• 295 x 340 x 107 mm (high x long x deep)
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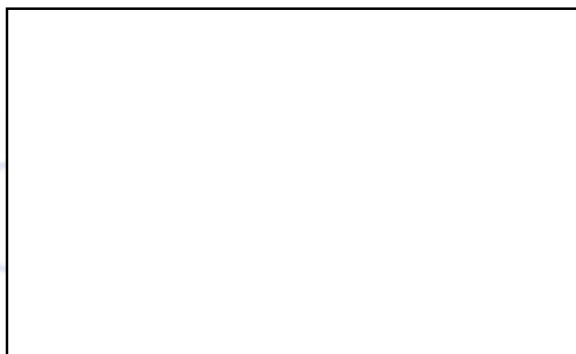
<b>WEIGHT :</b>	• 5.480 kg
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<b>COMPLIANCE :</b>	• CE
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OLDHAM ◀

Subject to operation conditions



**OLDHAM**  
 DETECTION GAZ / MESURE A L'EMISSION  
 GAS DETECTION / STACK GAS MONITORING

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