

OLDHAM MX2100 MULTIGAS DETECTOR



GENERAL DESCRIPTION

The MX 2100 is a 5-gas portable detector, designed for protection of personnel working in areas at risk from explosive and toxic gases or insufficient oxygen in offshore platforms, factories, underground structures, sewers, ships and generally any confined environment where a risk exists.

Exceptional configuration

The MX 2100 multigas detector features a unique configuration allowing 4 measuring positions as standard for measuring 6 different parameters. The MX 2100 adapts to the needs of your activity, providing the following detection combinations :

- 3 channels: toxic gases, CO₂, O₂
- 1 channel for explosive gases

Conformity with the ATEX Directive

The MX 2100 meets all the new requirements of the ATEX Directive 94/9/EC giving it a very high safety level. This Category 1 device can be operated in zone 0 and with any gas or vapour concentration.

Universal explosimetry reading

Fitted with a sensor specifically designed for measuring most common explosive gases on a scale of 0 to 100 % LEL, the MX 2100 is practically a universal explosimeter. The MX 2100 also has a library of 32 pre-programmed gases for measurement of a dedicated gas.

Choice of toxic gas and oxygen measurement

With the possibility of changing sensor blocks without adjustment you can choose from a large selection of sensors and use 4 of them simultaneously (with the CO/H₂S option). This feature makes the MX 2100 a genuine portable analysis laboratory.

Total work environment monitoring

Graphical display
The LCD display unit features automatic back-lighting for alarms or faults. Its is a graphical display for easier measurement readout.

- Measurement display :
 - display of 5 measurements with units and type of gas
 - warning if any channel needs to be calibrated
- Parameter display :
 - date and time
 - min. - max. (resettable)
 - STEL and TWA
 - remaining run time (bar graph)

Warning lights

A set of warning lights on the top of the unit displays alarms in all directions and in any work environment.

Alarms

- Gas alarms :
 - text messages for each channel on the display unit
 - flashing light signal common to all channels
 - audible signal
 - alarm acknowledgement compliant with safety rules
- Alarm levels :
 - 2 instantaneous thresholds per channel in EXPLO and TOX modes
 - STEL/TWA in TOX mode
 - running average over 15 minutes and 8 hours
 - high and low thresholds (2 low thresholds as option) and 1 threshold for the catharometric channel
- The MX 2100 can be linked to a PC via an infrared port for use on a suitably equipped computer. An adaptor module is available for other computers.



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Accredited to BS EN ISO 9001:2000

OLDHAM MX2100

MULTIGAS DETECTOR

TECHNICAL SPECIFICATIONS

Manufacturer:	• OLDHAM SA	Warning lights:	• High and low threshold (2 low thresholds as option) and 1 threshold for the catharometric channel
Function:	• Multigas detector	Buzzer:	• 95 db at 30 cm
Type:	• MX 2100	Power supply:	• 3 AAA alkaline batteries or coated NiMH battery pack
Configuration:	• 3 channels: toxic gases, CO ₂ , O ₂ • 1 channel for explosive gases	Reserve time:	• 14 hours standard • 8 hours with pump (4 hours' pump operation)
Gases detected:	• See table inserted in documentation	Charger:	• Built-in, smart • 12 to 30 VDC
Measurement:	• Continuous	Charging time:	• 3 hours
Sensor:	• Smart, pre-calibrated block interchangeable without adjustment • Automatic recognition of type of sensor	Operating temperature:	• -15°C to +45°C (continuous operation) • -25°C to +50°C (discontinuous operation)
Display:	• Graphical LCD, text display of gas levels, backlighting	Ingress protection:	• IP 66
Switching:	• Automatic switching in catharometric mode to a % volume scale if high concentration	Weight:	• 350 g
Auto-zero:	• At start-up and on demand (option) • Charger output (option)	Dimensions:	• H 110 x W 80 x D 45
Operating check:	• Self-test at start-up • Audible tone (factory-set interval) • No sensor stabilisation time	Certification:	• As per Explosive Atmospheres (ATEX) Directive : - ATEX 94/9/CE Ö - I 1G EEx ia IIC T4 - I M1 EEx i I or II 2G EEx iad IIC T4 - I M2 EEx i I • As per Electromagnetic Compatibility Directive 89/336/EC, standard EN 50270
Trouble alarms:	• Continuous luminous and audible signal common to all channels : - 20% over alarm in negative mode - 120% over alarm in TOX and oxygen mode - 100% over alarm in EXPLO mode		
Gas alarms :	• Text messages for each channel on the display unit : - Flashing light signal common to all channels - Audible signal - Alarm acknowledgement compliant with safety rules • Alarm levels : - 2 instantaneous thresholds per channel in EXPLO and TOX modes - STEL/TWA in TOX mode - running average over 15 minutes and 8 hours		



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