

Custom Gas Monitoring Systems Datasheet

OX-AN[®] gas monitoring systems are renowned for their features and overall reliability and are designed for long term personnel safety monitoring in the following industries and research establishments:

- Food
- Nuclear
- Aerospace
- Automotive
- Electronics
- Pharmaceutical
- Research and Development
- Medical and Educational Laboratories
- Universities
- Hospitals



Key features include:

- Easy to set up with digital controls
- Highly visible “traffic light” LEDS indicators
- Facility to print events and system settings
- Interfaces to Building Management Systems (BMS)
- Controls ventilation

Applications include:

- Oxygen Depletion and Enrichment Life Safety Gas Monitoring System for Laboratory and Industrial Applications typically:

NMR Machines – Oxford and Bruker Biospins
MRI scanners — Siemens and Philips
Electron microscopes
Argon welding machines
Bioresearch laboratories
Environmental climatic chambers
Carbogen applications



- Carbon Monoxide Life Safety Gas Monitoring System for Boiler House and Car Park Applications
- Chlorine Life Safety Gas Monitoring System for Water Treatment Plants
- Carbon Dioxide Life Safety Gas Monitoring System for Brewery, Cellar and Winery Applications

We believe a control panel for gas safety monitoring that can be interpreted by anyone visually is better than having to read a manual and scroll functions to understand what is happening, especially in an alarm condition.

All our life safety gas monitoring systems are fitted with “traffic light style” indicators and we recommend the control panel be sited outside the risk area; this allows the personnel to observe the panel readings and reset the system should an alarm event occur.

You may use our design service to specify a complete system, number and location of sensors, warning beacons with integral sounder and warning signs, installation and commissioning. Alternatively you may use our Architects specifications on the resources page.

Systems are available to monitor more than one gas, combined monitoring of Oxygen Depletion / Enrichment, Carbon Monoxide, Carbon Dioxide and other Flammable and Toxic Gases are common with our clients.

All our life safety monitoring systems are fitted with a panel printer, this allows the commissioning engineer to log the system settings on the commissioning sheet, after sensor replacement and calibration the service engineer will apply test gas to all sensor points to prove the system is fully operational.

To ensure that the system is operational whilst servicing our engineer will isolate the odd number sensors and change them, and then repeat the process on the even numbers. An important factor in maintaining safe systems of work.

A system setting printout is applied to the service sheet in both modes to prove that the area is not left at risk whilst servicing.

Customer Support

We pride ourselves on customer support and the reliability of our systems means one annual service visit is all that is required to maintain the system in perfect working condition.



Our maintenance agreements give the client peace of mind that for one fixed fee the system is under a 10 year warranty plan, with no hidden costs.

We also supply a test gas kit, which allows the client to test their system periodically for their own in-house due diligence.

- Substantial warranties and service maintenance agreements giving our clients peace of mind.
- Flexibility and know-how to design custom systems.
- Our systems integrate easily with existing Buildings Management Systems and ventilation control systems.
- Zoned systems for larger multi-room applications
- Liquid nitrogen shut down pneumatic interface panel



Main Control Panel Specification

Material:	GRP
IP Rating:	IP 66 Double insulated
Size:	53cm high x 43cm wide x 20cm from wall
Current rating:	Fused at 3 amp
Voltage:	230 V ac standard 110V ac option
Inputs:	16 off 4 – 20 mA loops
Relay outputs:	3 amp SPCO volt free contacts for main alarm 2 sets 3 amp SPCO volt free contacts for pre alarm 2 sets 3 amp SPCO volt free contacts for panel status to BMS
Other outputs:	Mains output to power 3 port solenoid valve for control of LN2 valve Mains output to warning device sounders and rotating beacons
Display System Safe:	Matrix of green 5mm LED's
System Pre Warning:	Matrix of amber 5mm LED's
System Main Warning:	Matrix of red 5mm LED's
Sensor where alarm has occurred:	Pair of 7 segment indicators
Function and setting system:	2 line 16 character back lit LCD
Fault:	5mm LED
One or more sensors is isolated:	5mm LED
Muted:	5mm LED System sounders are muted
Slow Cycle:	5mm LED LCD is in slow cycle mode to allow viewing of sensor values in safe mode
Print pending:	5mm LED Alarm event(s) that have occurred can be printed on demand, system fitted with self-adhesive thermal paper to allow fitting to log sheet
System Healthy:	5mm LED

For more system details download the user manual from the resources page on our website

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