



leading environmental monitoring systems
for you. for the environment.



Oxygen Depletion Monitoring Systems from OX-AN[®]

OX-AN[®]'s Oxygen Depletion Monitors are designed for personnel safety monitoring in:

- Food Industry
- Aerospace
- Automotive
- Electronics
- Pharmaceutical Industry
- Research & Development
- Research, Pharmaceutical, Medical and Educational Laboratories
- Factory, Industrial & other Plant Rooms
- Combined Spaces & Voids
- Basements & Pits

OX-AN[®] Oxygen Depletion Monitors

The extensive use of cryogenic liquids for process cooling in both industrial, scientific and food factory applications present a safety issue of asphyxiation to the personnel working around tunnels, cabinets, air handling units, etc. With the handling of liquid Nitrogen from dewars to workstations where a spillage could cause serious depletion of Oxygen levels, OX-AN[®] Oxygen Depletion System will warn and alert all personnel.

Even in situations in which Oxygen depletion does not reach life-threatening levels, the effect of Oxygen starvation on the health of working personnel is still a major health and safety concern.

OX-AN[®] Oxygen Deficiency Monitoring Systems can detect Oxygen deficiency and warn occupants immediately of any danger.

Alarm outputs and warning signals can be configured to shut down control valves in the event of cryogenic leak from ineffective seals, valves, flanges, etc.

The product can measure up to twelve locations with remote 4-20 mA Oxygen sensors.

With over 20 years experience in the design and manufacture of Oxygen deficiency alarm systems, OX-AN[®] Gas Detection Ltd can offer a proven and reliable protection system for personnel working in these potentially hazardous conditions.

The system outputs can be used to control safety equipment for specific corrective actions or for safety related plant shutdown.



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OX-AN[®] Oxygen Depletion Monitor Key System Features

Key features of OX-AN[®]'s highly developed and sophisticated Oxygen Depletion Monitoring System include:

- Digital control and set-up of all functions
- Recall of alarm events
- Monitors up to 16 points as standard
- Two stage alarm outputs with 3 amp volt free relays
- Clear indication of fault zone on large LED
- Additional warning panels can be mounted up to 300m away
- Upgradeable
- Sensor isolation
- Print on demand function documents time stamped events

Options

Options for our Oxygen Depletion Monitoring System include a zone-based alarm system allowing multiple zones to be monitored and have individual alarm based relay outputs using one system.

How many sensing points do I need?

The number of sensing points required to adequately monitor a space depends upon a number of factors. Please contact us for free technical advice or a site visit.

Installation

OX-AN[®] Gas Detection Ltd offer a full installation service. All that is required on site is the provision of a fused mains outlet adjacent to the proposed location of the monitor and remote panel.

Service and Maintenance

OX-AN[®] Gas Detection Ltd offer a service contract providing a service visit at twelve monthly intervals. At the service schedule the electro-chemical Oxygen sensors are replaced and all the instrument's functions and alarms are checked using test gases.

For intermediate Oxygen depletion monitoring system testing, we can supply test gases in disposable canisters with a needle control valve and carrying case.



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OX-AN[®] Oxygen Depletion Monitoring System Technical Details

Sensors: Electro-chemical fuel cell 4-20mA transmitter

Range: 0-25% Oxygen

Voltage: 240V a.c. 110v a.c. option

Current Rating: 5 amp

Output: 2 x 3 amp single pole changeover relays (volt free contacts)

Display: **Function:** 2 x 16 back illuminated liquid crystal display
Zone: 2 x 1.5" 7 segment LED display
Alarm: Matrix of 5mm red LED's
Warning: Matrix of 5mm amber LED's
Area safe: matrix of 5mm green LED's

System Status LED's:

Fault: System fault has occurred
Isolated: One or more sensors isolated
Muted: Sounder is muted
Slow Cycle: System in slow cycle mode
Print Pending: Event is ready to print
Healthy: System is powered & functional

Warning Sounder: 90 dB @ 1 M

Mute: External mute push-button

Main Unit: 53 cm high x 43 cm wide x 20 cm depth from wall

Sensor Housing Size: 10 cm high x 10 cm wide x 8 cm depth from wall

Maximum number of Sensors: 16 as standard

Field Wiring: Transmitters 16/0.02 mm² twin Belden cable

Remote panel twin screened data cable with overall screen

Contact OX-AN[®]

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