



**leading environmental monitoring systems**  
for you. for the environment.



## Carbon Dioxide Monitoring Systems from OX-AN<sup>®</sup>

OX-AN<sup>®</sup>'s Carbon Dioxide Monitors are for personnel safety, energy conservation and process monitoring in:

- Heating and Ventilation ~ Demand Control Ventilation
- Brewing
- Horticultural
- Food Processing
- Research

## OX-AN<sup>®</sup> Carbon Dioxide Monitoring Systems

OX-AN<sup>®</sup> Carbon Dioxide Monitoring Systems offer a cost effective solution for the measurement and control of CO<sub>2</sub> for area safety monitoring, process monitoring, and Demand Controlled Ventilation (DCV) for comfort and energy conservation in buildings.

Capable of measuring up to 99 channels from one main control panel, the zone based system has two allocated sets of SPCO relays for each channel. These can be user set from the multi function user interface to control fans, dampers, valves etc.

The system is modular in design, all the control components can be integrated into one cabinet or alternatively a distributed system can be configured with the relay panels supplied on a chassis to mount into larger end user control panels. The connection from the main OX-AN<sup>®</sup> is by data cable utilising an I2C bus.

For safety monitoring applications the main panel features clear indication of system status by arrays of Red, Amber and Green LED's. The zone which the alarm has triggered is indicated by a set of 7 segment LED's. In all modes system status is indicated by stack of coloured LED's and a LCD allows the engineer to set the functions and alarm levels.

A compact panel printer is fitted, this has several functions, one is the ability to print all system settings and in the case of area safety monitoring to provide a record of alarm events.

Two sensor types are available:

- Wall mounted type
- Duct mounting type with probe



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## OX-AN<sup>®</sup> Carbon Dioxide Monitor Key System Features

Key features of OX-AN<sup>®</sup>'s highly developed and sophisticated Carbon Dioxide Monitoring System include

- Digital control and set-up of all functions
- Monitors up to 16 points as standard, upgradeable to 99
- Two stage alarm outputs with 3 amp volt free relays
- Upgradeable
- Sensor isolation
- Print on demand function documents time stamped events, ideal for due diligence testing

## Safety monitoring features

- Recall of alarm events
- Clear indication of fault zone on large LED
- Additional warning panels can be mounted up to 300 metres away

## 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<sup>®</sup> 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<sup>®</sup> 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 system testing we can supply test gases in disposable canisters with a needle control valve and carrying case.



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## OX-AN<sup>®</sup> Carbon Dioxide Monitoring System Technical Details

**Sensors:** Single beam, dual wavelength NDIR

**Range:** 0 - 2000 ppm CO<sub>2</sub>  
0 - 5000 ppm CO<sub>2</sub>  
0 - 10000 ppm CO<sub>2</sub>  
0 - 20000 ppm CO<sub>2</sub>

**Accuracy:** At 25°C <+/- 30 ppm

**Long Term Stability:** <5% FS/5 years

**Sensors' Operating Temperature:** - 5°C - +45°C

**Operating Humidity Range:** 0 - 85% RH non-condensing

**Air flow over sensor:** 0 - 10m/sec

**Current Rating of main panel:** 5 amp

**Output:** 3 amp SPCO relay each channel

**Channels:** Up to 99

**Display:** **Function:** 2 x 16 back illuminated liquid crystal display  
**Zone (where fitted):** 2 x 1.5" 7 segment led display  
**Alarm (where fitted):** Matrix of 5mm red LED's  
**Warning (where fitted):** Matrix of 5mm amber LED's  
**System 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:** 90db @ 1M (fitted on safety monitoring systems only)

**Mute:** Internal and external momentary push button (fitted on safety monitoring systems only)

**Main Panel Size:** 53 cm high x 43 cm wide x 20 cm depth from wall

**Field Wiring:** Sensors to main panel 16/0.02mm<sup>2</sup> 3 core screened cable

### Contact OX-AN<sup>®</sup>

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