



Ax 50™

Carbon Dioxide Analyser

***** WARNING *****

Please read the safety information on
Pages 10 and 26 before installing this product.

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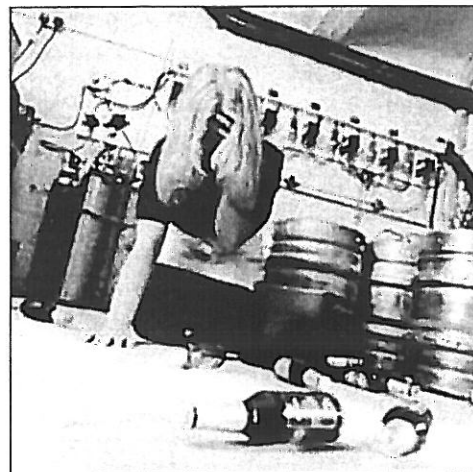


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This support line is closed on UK public holidays

Effects of Carbon Dioxide

1,000ppm (0.1%)
5,000ppm (0.5%)
10,000ppm (1%)
15,000ppm (1.5%)
20,000ppm (2%)
30,000ppm (3%)
40,000- 50,000ppm (4-5%)
50,000- 100,000ppm (5-10%)
100,000- 1,000,000ppm (10-100%)



For a more detailed outline of the dangers of CO₂, please visit our website www.analox.net or contact us at info@analox.net

10. SAFETY

The Ax 50™ is designed to be compliant with the following standards: IEC EN 61010-1: 2010. It is designed to be safe at least under the following conditions.	
a.	Indoor use
b.	Altitude up to 2000m
c.	Temperature -5°C to +40°C
d.	Maximum relative humidity 80% for temperatures up to 31°C decreasing linearly to 50% relative humidity at 40°C.
e.	Mains voltage supply fluctuations not to exceed 10% of the nominal voltage
f.	Impulse withstand (over-voltage) category II of IEC 60364-4-443
g.	Pollution degree 2
h.	Mains voltage:- 230V AC (Not Adjustable - Instrument will be factory set) 110V AC (Not Adjustable - Instrument will be factory set) 24V DC (Not Adjustable - Instrument will be factory set)
i.	Mains power:- Less than 5VA – 110V AC and 230V AC Versions Less than 5W – 24V DC Version.
j.	Mains frequency - 50/60Hz
k.	The Quick Connect Remote Alarm Repeater has ingress protection to IP43: direct sprays of water up to 60° from the vertical in accordance with EN 60529:1991 + A1. The Main Unit, Hard Wired Remote Alarm Repeater, Battery Backup and Relay Terminal Junction Box all have ingress protection to IP65: low pressure water jets from all directions and totally protected from dust in accordance with EN 60529:1991 + A1.
l.	Insulation: - Reinforced insulation, class II product according to IEC536.
m.	Not for use in corrosive or explosive atmospheres
n.	Not approved for use in vehicles, ships or aircraft

NOTE:

Item 'n' of the above table only relates to CSA requirements (North America only)

Fuse ratings:-

230V AC, 500mA,	F rating 250V (20mm x 5mm Glass Cartridge)
110V AC, 500mA,	F rating 250V (20mm x 5mm Glass Cartridge)
9-24V DC, 200mA,	AS rating 250V (20mm x 5mm Glass Cartridge)

Battery Back-Up:-

The Battery Back-Up is non repairable. Please return faulty units to Analox for refurbishment/replacement.

WARNING: 4 to 20mA (or 0-1V) Output:-

External connected equipment must meet the requirements for reinforced insulation or must be a Safety Extra Low Voltage (SELV) circuit as defined in IEC60950-1.

The above statement refers to the risk of externally connected equipment introducing hazardous voltages into the A50 (O2NE, Safe-Ox or CO Clear). It is the responsibility of users of this product to ensure that their equipment/accessory is safe before connecting it.

WARNING - If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.



1. SAFETY NOTES

Every gas monitor installation should be risk assessed. The correct location of monitor(s) must consider the potential sources of gas leaks and the location of expected human occupation in the area. Where large areas must be monitored, it is often advised that no single monitor should cover a volume in excess of 80m³. The installation of more monitors should be considered where an area is complex in shape, filled with obstacles, has a lack ventilation or air circulation, or if there are dead zones where gas can collect.

Guidance with a risk assessment can be found in document A50-930-00 IEC 61010-1 Risk Assessment (contact Analox for further details), the points below should be considered.

- a) The Ax 50TM must be installed according to these instructions which should be read entirely before commencing installation.
- b) For your convenience the Remote Alarm Repeater is pre-wired to the Ax 50TM sensor unit.
- c) If you need to disconnect the cable for ease of installation. DISCONNECT FROM THE REMOTE ALARM REPEATER END
- d) The system MUST NOT be switched on until all connections have been correctly made.
- e) We do not recommend you access the main unit. Potentially lethal voltages exist within the Ax 50TM. It should only be opened by a Qualified Technician, and must be isolated from the electrical supply before opening.
- f) The Ax 50TM does not require routine maintenance. All you need to do is check that the green light is flashing and press the mode button periodically to make sure that the Horn and alarm lights are functioning.