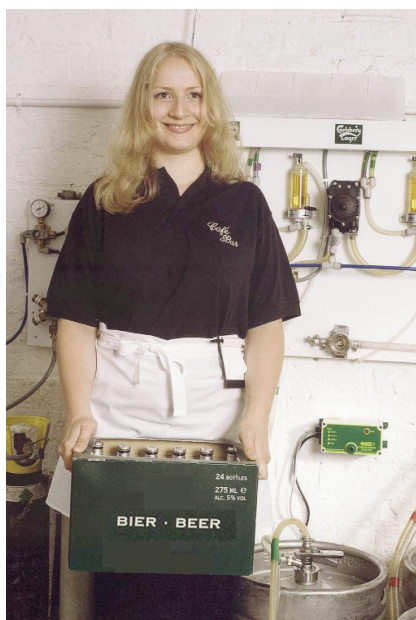


Analox 50™ Carbon Dioxide Analyser

ANALOX

looking after the air **YOU** breathe®



How safe is your cellar?

How do you know if your dispense gas is leaking?

The confined space regulations 1997, currently in force, defined most pub cellars as confined spaces. As an owner or manager of a bar, restaurant or fast food outlet, it is up to you to ensure the health and safety of your employees is not compromised as they carry out their daily duties.

Drinks dispense gas contains CO₂ which is a toxic gas. If you store dispense gas in a confined space, you must comply with these regulations and complete a risk assessment.

What happens to you as carbon dioxide levels increase?

As levels of carbon dioxide rise you will experience the following effects:

- | | |
|----|---|
| 2% | You may feel drowsy. |
| 3% | Gas has a slightly narcotic effect, blood pressure rises and hearing can be impaired. |
| 5% | Breathing will become difficult and you may feel confused. |

The higher the concentration over 5% the sooner unconsciousness occurs. **Several deaths** have been attributed to high levels of CO₂, however, what is not yet documented is the number of strokes and heart attacks people have suffered due to excess carbon dioxide.

Safety is our concern. When you monitor for carbon dioxide you need equipment with proven reliability. The Analox 50™:

- Is purpose designed for the harsh cellar environment.
- Analox CO₂ sensor is covered by a 15 year warranty.
- Over 80,000 Analox cellar monitors in the field.

How the Analox 50™ works

The Analox 50™ is fitted with audio visual alarms. When excess levels of carbon dioxide are detected an alarm is triggered. You should then ventilate the cellar and wait outside until the Analox 50™ returns to safe mode (green light flashing only). At dangerous levels a second alarm warns of the need to immediately evacuate the cellar, until the monitor returns to safe mode.

The main benefits of using an Analox 50™ analyser

- The Analox 50™ ensures it's safe for your employees, non-employees (such as suppliers) and yourself to enter or work inside a cellar where carbon dioxide is stored.
- The Analox 50™ ensures you comply with current legislation, protecting you from possible prosecution under health and safety legislation.
- The Analox 50™ ensures good cellar management - you know immediately when you have a gas problem

Installation of the Analox 50™

Installation is easy. The Analox 50™ consists of a mains powered sensor unit and a remote repeater.

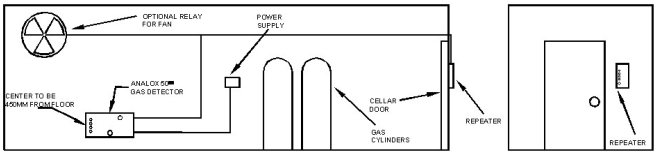


Fig1

Mount the sensor unit 450mm from floor level, as close to the valves as possible. The repeater should be installed at eye level outside the entrance door. This allows you to check the green light is flashing before you enter.

Training for the Analox 50™

To assist with your in-house training we provide a safety warning sheet which allows you to complete your own emergency information. If either of the red alarm lights are flashing and a horn is sounding you have a carbon dioxide leak. You should follow your internal procedures and ventilate the area. Only re-enter when the Analox 50™ says it is safe to do so.

Other options available

If you store nitrogen and carbon dioxide mixtures, where the nitrogen concentration is greater than 80%, you may need to monitor the oxygen level. The Analox 50™ is also available with an oxygen sensor.

If you want to connect the Analox 50™ to a suitable fan as shown in figure 1, so it switches on automatically when the first alarm is triggered, we can fit a relay. In areas that are hosed down an easy fit splashguard can be supplied to protect the sensor from water ingress. To maintain the system in event of a powerfailure, battery backup is available.

If you have any specific requirements, talk to us and we may be able to help.

Dangers of CO2

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%)



Drowsy, headaches



Increased blood pressure, difficulty in breathing



Unconsciousness

Specifications

Ranges:	0.1 - 5%	Operating temp:	-5 to 45°C
Repeatability:	2% of full scale	Power:	110/240 VAC or 9-24VDC
Technique:	Infra red absorption	Dimensions:	175 x 110 x 75 (mm)
Response time:	<45 seconds T90	Protection:	IP66/NEMA 4X. CE marked
Dual alarms - visual and audio: Alarm 1 and 2: visual red Fault: visual Amber			

Analox has a policy of continuous improvement and we reserve the right to upgrade or change specifications without prior notice. Full technical specifications are available upon request.



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