

## Analox 3D

Check Your Compressor Line Efficiency.



## CARBON MONOXIDE ANALYSER

### BENEFITS AND FEATURES

- Efficiency:** By checking CO Level ensures the compressor is not running 'hot'.
- Clean :** Where the compressor is used for breathing air, make sure the users do not suffer from CO poisoning.
- Safe :** Checks the CO filters are working correctly.
- Compact :** Small size means it can be fitted in to all packages.
- Versatile :** Available as Mains or Battery Powered, and can accept up to 7 bar direct pressure.

## Description

The Analox 3D is an advanced electrochemical based carbon monoxide analyser. It is very specific to carbon monoxide and the readings are unaffected by other atmospheric gases. In standard format it is designed to offer trouble free dependable breathing protection by monitoring levels of carbon monoxide in compressed gases, and from compressor or compressed airline outlet points.

### OCCURRENCE

Carbon Monoxide is an extremely common gas which has almost the same density as air. It is formed by the incomplete combustion of flammable substances containing carbon e.g. Methane, Hydrocarbons, gasoline and coal products and can therefore be found in exhaust from heating systems, gasoline or diesel engines and poorly maintained air compressors.

### CONTAMINATION

Compressed air can be contaminated with carbon Monoxide in two obvious ways.

- (a) If the compressor air intake is close to the exhaust of a motor vehicle or heating system carbon monoxide can be drawn in.
- (b) If the compressor is poorly maintained lubricating oil in the compressor can be partially broken down to combustion components including Carbon Monoxide.

### DANGER OF BREATHING CARBON MONOXIDE

Carbon Monoxide is a highly toxic lethal gas which cannot be detected by sight or smell. Even in small parts per million concentration, particularly if breathed at pressure as in diving, carbon monoxide has a devastating effect on the ability of blood to carry oxygen. Haemoglobin in red blood corpuscles is responsible for carrying oxygen to all parts of the body including the brain where it is released to enable the body to function. When carbon monoxide is breathed it preferentially reacts with Haemoglobin to form carboxyhaemoglobin which is unable to transport or release oxygen in the brain or other parts of the body. If exposure to carbon monoxide is severe or long in duration death can occur.

### PROTECTION

The Analox 3D Carbon Monoxide analyser provides continual monitoring of your compressor or airline outlet for carbon monoxide gas. Fitted with a digital display and both audible and visual alarms the Analox 3D gives you the warning you need to prevent the breathing of carbon monoxide contaminated breathing air. Additionally the internal alarm relay contact can be used for a remote alarm system or for initiating compressor shut down or switching to an alternative air supply.

## Applications

DIVING CYLINDER CHARGING STATIONS  
FACTORY AIRLINE COMPRESSOR OUTLETS

FACTORY AIRLINE POINT OF USE MONITORING  
FIRE DEPARTMENT COMPRESSOR AND  
CYLINDER CHARGING STATIONS

## Accessories and Option

FLOW METER  
PRESSURE REGULATOR

FAIL SAFE RELAY MODE

## Specifications

<b>Range</b>	: 3D 0-50ppm (other ranges on request)
<b>Resolution</b>	: 0.3% CO
<b>Accuracy</b>	: +/- 2% of scale
<b>Response Time</b>	: <30 seconds to T90
<b>Sensor Type</b>	: Electrochemical
<b>Sensor Life</b>	: 18 months in air
<b>Max. Pressure at Inlet</b>	: 5 Bar
<b>Power Supply</b>	: 9vDC from 110/220V AC power pack supplied or 9v alkaline internal batteries
<b>Alarms</b>	: audible 90db Horn/Visual High intensity LED
<b>Display</b>	: LCD 4-digit
<b>Alarm Relay</b>	: 1 amp at 24v DC volt free contacts
<b>Alarm Set Points</b>	: Normally 10ppm
<b>Alarm Hysteresis</b>	: 1 ppm
<b>Dimensions</b>	: 160 x 80 x 85 mm
<b>Pressure</b>	: Up to 7 Bar through the optional restriction

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