

ANALOX

O2NE+

Your lab, your safety, **OUR** priority

What?

The O2NE+ is an oxygen depletion monitor ideal for use where there is threat of a potential leak or build-up of an inert gas such as:-

- Nitrogen
- Argon
- Helium

The O2NE+ provides two audio visual alarms which are pre-set at 19.5% & 18% (but can be adjusted) to warn personnel of a potentially dangerous depletion of oxygen in the workplace.

Why?

The use of inert and specialty gases is widespread and varied and includes many industries and processes, some of which are listed below. Should there be a leak or build-up of these gases in a confined space this will deplete the level of oxygen and can pose a danger to employees and members of the public visiting your workplace. Employers have a duty of care to risk assess areas using inert gases and the O2NE+ is a simple and cost effective safety solution which could save lives.

Nitrogen

- Food production and transportation
- Beverage dispense and production
- Cryopreservation (blood, sperm, eggs etc)
- Packaging
- Laboratory processes including carrier gases
- Cryogenics
- Promession
- CCD cameras
- Cryotherapy
- Tissue preservation
- Coolants
- Mechanical shrink-welding
- Molecular gastronomy
- Container "Inerting"
- Cattle branding
- Pest control
- Hypoxic fire suppression

Argon

- Welding shielding gas
- Titanium blanketing
- Light bulb production
- Silicon growth atmospheric protection

Helium

- Commercial diving
- Technical scuba diving
- Breathing observation
- Light weight aircraft fuel
- Coolant for superconductors such as MRI scanners
- Balloon gas
- Shuttle, blimp and hot air balloon fuel

Where?

The O2NE+ main sensor unit is wall mounted at normal working head height in the area/s recommended as a result of a risk assessment (often where the gases are stored and/or piped). The repeater unit/s (which take their power from the main unit) are then sited at the entrance/s to the area to provide an early warning before entering.

*Oxygen sensor lives are affected by variables such as the amount of oxygen they are exposed to and the environmental temperature and humidity.



Key features

- Simple Calibration - The O2NE+ can be calibrated on "pure air" which is easy to source and ship globally and affordable too
- Long life O₂ sensor - Can last up to 10 years*
- Minimal maintenance - Unlike other oxygen monitors the O2NE+ only needs calibrating every 18 months and the sensor does not need changing every 2 years
- "Plug and play" - The O2NE+ is easily wall-mounted and basic installation does not require a qualified electrician
- Repeater Included - The O2NE+ comes complete a repeater which is to be placed at the entrance to provide an early warning before entering the room
- Suitable for use with helium - The presence of helium can affect the readings of most O₂ monitors
- but the O2NE+ will provide accurate, reliable readings if helium is one of the gases you are concerned about
- No risk of accidental calibration - The O2NE+ does not allow the user to calibrate it using ambient air. A certified calibration gas must be passed over the sensor at 18 month periods. This is a safety feature which prevents a potentially false calibration being made.



Sensor specifications:

Measurement technique:

O₂ - partial pressure electrochemical cell with atmospheric pressure compensation

Range:

O₂: 0.1 to 25.0%

Accuracy:

Better than $\pm 0.75\%$ O₂ over 5.0 to 25.0% O₂
Better than $\pm 1.00\%$ O₂ over 0.1 to 5.0% O₂

Response time (T90):

60 seconds

Warmup time:

30 seconds

Expected sensor life:

10 years*

Sensor warranty:

2 years

Sensor calibration period:

1.5 years

Analyser specifications:

Analyser type:

Fixed

Supply voltage:

230V AC, 110V AC, 9 to 24V DC

Operating temp:

0 to 40 °C

Power consumption:

< 5 Watts

Display:

4 digit LCD

Dimensions:

Analyser 175 x 110 x 75mm
Repeater 72 x 170 x 45mm

IP Rating:

Analyser IP65
Repeater IP65 (quick connect IP43)

Sounder:

85dbA @ 10cm

Alarms:

18.0% Alarm
19.5% Alarm

Options:

4 to 20mA, 0 to 1V, 2 x relays

Warranty:

2 years

Approvals:

EMC Directive 89/336/EEC
(EN50270:1999, EN61000-6-3:2001+A11:2004)
Low Voltage Directive 73/23/EEC
(BS EN 61010-1:2001, IEC 61010-1(2ed))
AS61010.1-2003
(Australia & New Zealand)
CSA (cCSAus),
Master Contract 239512,
Certificate 1909026