

O2NE+



Oxygen Depletion Monitor

The O2NE+ is a simple to use and maintain ambient oxygen deficiency monitor and sensor for use in applications which use inert gases and nitrogen.

The O2NE+ provides two audio visual alarms which are pre-set at 19.5% & 18% (but can be adjusted) to warn personnel of a potential leak which may cause the O2 levels to deplete to a dangerous level.

The use of inert and speciality gases is widespread in several industries and processes, some of which are listed below:

- MRI rooms (Helium is used as a coolant for a superconductor in MRI machines)
- Cryopreservation
- Tissue preservation
- Deep freeze – pathology
- Breathing observation – Asthma, Emphysema (Helium)
- Cancer treatment (Argon lasers)
- Laboratories

Inert gases such as argon and helium, as well as nitrogen, are not toxic,

but they do not support human breathing and reduce levels of oxygen in the air. They are odorless, colourless and tasteless making them undetectable.

An increase in the concentration of any other gases that are not oxygen can lead to a situation where individuals are at risk of asphyxiation which can cause serious injury or even death.

This removal of oxygen gas in the air we breathe makes having an oxygen depletion sensor not just useful, but essential to maintaining life.

The O2NE+ main sensor unit is wall mounted at normal working head height or often in the gas storage area. The repeater is located at the entrance to the room and will let you know if is safe or not to enter.



KEY FEATURES

- Up to 10-year life on O2 cell
- Minimal maintenance with a calibration period of 12 months
- “Plug and Play” basic installation makes it ready to go!
- Repeater included for remote warning ability
- Suitable for Helium detection
- Simple calibration – can be calibrated on “pure air”
- 2-year warranty
- Supported by GasTech

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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% O2 Better than $\pm 1.00\%$ O2 over 0.1 to 5.0% O2
Response time:	O2 – 60seconds (T90)
Warm up time:	30 seconds
Expected sensor life:	10 years *
Sensor warranty:	2 years
Sensor calibration period:	12 months

Analyser Specifications:

Supply voltage:	230V AC, 110V AC, 9 to 24V DC
Operating temperature:	0 - 40°C / 32 - 86°F
Power consumption:	< 5 Watts

Display:	4-digit LCD
Dimensions:	Analyser: 17.5 x 11 x 7.5 cm Repeater: 7.2 x 17 x 4.5 cm
Output options:	4 to 20mA, 2 x Relays, 0 to 1V
Sounder:	85dbA @ 10cm
Alarm:	18.0% Alarm, 19.5% Alarm
Warranty:	2 Years
IP Rating:	IP65 (Quick connect Repeater IP43)
Certifications and 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 and New Zealand) CSA (cCSAus), Master Contract 239512, Certificate 1909026
Part number:	72-8050-O2NE

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



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