

# O<sub>2</sub>NE+

Oxygen Depletion Monitor

by **ANALOX**



The O<sub>2</sub>NE+ is a simple to use and maintain **ambient oxygen depletion monitor and sensor**, ideal for monitoring oxygen levels where **inert gases such as N<sub>2</sub>, Ar or He pose a risk of depleting O<sub>2</sub> levels in ambient air.**

It comprises of a wall mounted main sensor unit and a repeater. It is ranged from 0 to 25% O<sub>2</sub> and has 2 audio/visual alarms. The sensor is long life and calibration adjustment is only required once the unit is initially installed and following a cell replacement and can be achieved using certified air\*. We recommend a proof test is carried out every 12 months. The instrument uses an electrochemical cell together with state of the art technology, built in an IP65 splash proof housing and is designed to provide long, trouble free service, with minimum maintenance. The O<sub>2</sub>NE+ has two pre-set alarm levels at 19.5% and 18% O<sub>2</sub>. The oxygen sensor used is not cross sensitive to helium so will measure correctly in the presence of a helium atmosphere. This means that the sensor can be safely used to detect oxygen displacement by helium gas leaks.

The O<sub>2</sub>NE+ is installed in areas where an inert gas is being used or stored to provide a warning should the oxygen levels deteriorate to an unsafe level. The repeater is located at the entrance to the room, highlighting the danger to personnel before they enter.

\* Unless your local legislation/regulations state otherwise

## Analox Recommends

The O<sub>2</sub>NE+ is a precision instrument and needs to be handled with care. We also recommend that a calibration adjustment is performed on the unit once installed to account for changes in the environment.

## Features

- Long-life O<sub>2</sub> sensor
- User changeable sensor
- Calibration adjustment of the O<sub>2</sub>NE+ can be completed using 'pure air'
- Repeater included
- Plug and play
- Not cross sensitive to He

## Industries

- Labs
- Oil and Gas
- Diving
- Beverage and Hospitality
- Agriculture
- Medical

## Gas Detected

Oxygen (O<sub>2</sub>) (Depletion)

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# O<sub>2</sub>NE+

## Analox Asks

Is an oxygen safety monitor the same as a nitrogen safety monitor? Essentially, yes. When there is a threat of O<sub>2</sub> levels being depleted due to a leak of nitrogen gas or liquid, then an O<sub>2</sub> safety monitor is required. These are sometimes referred to as nitrogen safety monitors.

### Tech Spec

<b>O<sub>2</sub> range</b>	0.1 to 25%
<b>Sensory accuracy</b>	better than ± 0.75% O <sub>2</sub> over 5.0 to 25.0% O <sub>2</sub>
<b>Response time (T90)</b>	<60 seconds
<b>Operating temperature</b>	0 to +40 °C (+32 to +104 °F)
<b>Temperature effect</b>	0.2% of reading/°C or 0.1115% of reading/ °F
<b>Atmospheric pressure range</b>	811 to 1050 mbar absolute
<b>Warm up time</b>	10 seconds to normal operation, prior to calibration allow 2 hours to achieve full accuracy
<b>Dimensions</b>	Central unit = 175 x 105 x 75 mm, Alarm repeater = 155 x 72 x 45 mm
<b>Weight</b>	Central unit = 600g Alarm repeater = 150g
<b>IP rating</b>	IP65 for central unit and alarm repeater, unless the alarm repeater is quick connect then it is IP43
<b>Sensor type</b>	electrochemical cell
<b>Sensor life</b>	up to 7 years in air* * 7 year life is based on: 25°C temp 1 atm (atmosphere pressure) Exposure to 20.9 O <sub>2</sub> in air Differing environmental factors will alter the potential life span
<b>Display</b>	4 digit LCD
<b>Alarms</b>	2 x alarm visual indicators, 1 x system fault indicator, 1 x status indicator, common audible alarm
<b>Alarm sounder</b>	min 75dBA
<b>Relays</b>	one or two optional alarm relays with changeover contacts assigned to alarm 1, alarm 2 or system fault. Contact rating 240 V AC or 30 V DC at up to 2 A, contacts are non-latching fail-safe
<b>Output</b>	2 wire, 4 to 20 mA (max load 150 Ω)
<b>Power supply options</b>	210 to 250 V AC supply, 110 to 120 V AC supply, 9-24 V DC supply

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 and can be found in the User Manual. If you require a datasheet in another language please contact us.

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**Pricing on any accessories shown can be found by keying the part number into the search box on our website.**

**The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed, please provide these to our sales team so that details can be confirmed.**

