

O₂NE+

Oxygen Depletion Monitor



The O₂NE+ is a simple to use and maintain ambient oxygen depletion monitor and sensor, ideal for monitoring oxygen levels where inert gases such as N₂, Ar or He pose a risk of depleting O₂ levels in ambient air.

It comprises of a wall mounted main sensor unit and a repeater. It is ranged from 0 to 25% O₂ 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 O₂NE+ has two pre-set alarm levels at 19.5% and 18% O₂. 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.

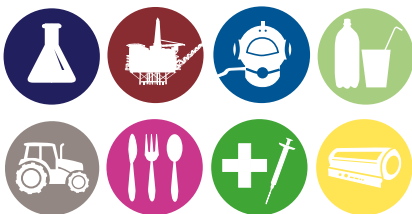
The O₂NE+ is installed in areas where an inert gas is being used or stored to provide a warning should the oxygen levels deteriorate to an unsafe level. The repeater is located at the entrance to the room, highlighting the danger to personnel before they enter.

* Unless your local legislation/regulations state otherwise

KEY FEATURES

- Long-life O₂ sensor
- User changeable sensor
- Calibration adjustment of the O₂NE+ can be completed using 'pure air'
- Repeater included
- Plug and play
- Not cross sensitive to He

INDUSTRIES



ANALOX RECOMMENDS

The O₂NE+ 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.



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SPECIFICATIONS

O₂ range: 0.1 to 25%

Sensor accuracy: better than $\pm 0.75\%$ O₂ over 5.0 to 25.0% O₂

Response time (T₉₀): <60 seconds

Operating temperature: 0 to +40 °C (+32 to +104 °F)

Temperature effect: 0.2% of reading/°C or 0.1115% of reading/ °F

Atmospheric pressure range: 811 to 1050 mbar absolute

Warm up time: 10 seconds to normal operation, prior to calibration allow 2 hours to achieve full accuracy

Dimensions: central unit = 175 x 105 x 75 mm, alarm repeater = 155 x 72 x 45 mm

Weight: central unit = 600g, alarm repeater = 150g

IP rating: IP65 for central unit and alarm repeater, unless the alarm repeater is quick connect then it is IP43

Sensor type: electrochemical cell

Sensor life: up to 7 years in air

Display: 4 digit LCD

Alarms: 2 x alarm visual indicators, 1 x system fault indicator, 1 x status indicator, common audible alarm

Alarm Sounder: min 75dBA

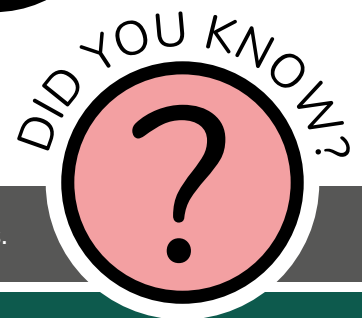
Relays: one or two optional alarm relays with changeover contacts assigned to alarm 1, alarm 2 or system fault. Contact rating 240 V AC or 30 V DC at up to 2 A, contacts are non-latching fail-safe

Output: 2 wire, 4 to 20 mA (max load 150 Ω)

Power supply options: 210 to 250 V AC supply, 110 to 120 V AC supply, 9-24 V DC supply

ANALOX ASKS

Is an oxygen safety monitor the same as a nitrogen safety monitor? Essentially, yes. When there is a threat of O₂ levels being depleted due to a leak of nitrogen gas or liquid, then an O₂ safety monitor is required. These are sometimes referred to as nitrogen safety monitors.



Most competitor O₂ monitors have a 2 year sensor life. The O₂NE+ will last up to 7 years.

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