O2NE+ Detector

Oxygen Depletion Monitor

Your Lab, your safety, OUR priority.

The O2NE+ is an oxygen depletion monitor ideal for use where there is threat of a potential leak or build-up of 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 potential leak which may cause the O2 levels to deplete to a dangerous level.

The use of inert and speciality gases is widespread and varied and includes many industries and processes, the applications of which throughout the medical market 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.

- MRI rooms (Helium is used as a coolant for a superconductors in MRI machines)
- Cryopreservation (LN2 used for blood, sperm and egg preservation)
- Tissue preservation
- Deep freeze – pathology
- Breathing observation – Asthma, Emphysema (Helium)
- Cancer treatment (Argon lasers)

The O2NE+ main sensor unit is wall mounted at normal working head height in the area/s recommended as a result of 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 situated at the entrance/s to the area to let staff or visitors know if it is safe to enter or not.

Key Features:

- Simple Calibration - The O2NE+ can be calibrated on "pure air".

- Long life O2 sensor - Can last up to 10 years.

- Minimal maintenance - 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 and early warning before entering the room.

- Suitable for use with helium - 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.

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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 ± 0.75% O2 over 5.0 to 25.0% O2
	Better than ± 1.00% O2 over 0.1 to 5.0% O2
Response Time (T90):	O2 - 60 seconds
Warm up 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 Temperature:	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
Output options:	4 to 20mA, 2 x relays, 0 to 1V
Dimensions:	175 x 110 x 75mm (analyser) 72 x 170 x 45mm (repeater)
Sounder:	85dbA @ 10cm
Alarm:	18.0% Alarm, 19.5% Alarm
Options :	4 to 20mA, 0 to 1V, 2 x relays
Warranty:	2 years
IP Rating:	Analyser IP65
	Repeater IP65 (quick connect 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 & New Zealand)
	CSA (cCSAus), Master Contract 239512, Certificate 1909026

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

Part Number: **72-8050-O2NE**

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