

O2 Mk9 Sensor Add-on KIT (2124)

O2 Sensor with amber Horn/Strobe for LogiCO2 Safety Systems



TECHNICAL DATA O2 MK9 SENSOR

Power supply:	24V DC
Operating Principle:	FB-optical
Measurement range:	0-25% O ₂ -concentration
Accuracy:	<2% FC
LED indications	
Green:	Operation
Yellow:	Fault
Red:	Alarm (<19,5% O ₂)
Sound indication	
Beeping:	Fault
Continuous:	Alarm
Dimensions (LxWxD)	90x161x38 mm 3.5"x6.3"x1.5"
Ingress protection:	IP 44

TECHNICAL DATA HORN/STROBE

Nominal voltage:	18-24V DC
Average current:	120 mA @ 24V DC supply
Decibel:	110 dB / 1 m (High-Alarm)
Flash intensity:	115 CD (Low-Alarm)
Flash frequency:	65/min
Ambient temperature:	-5°C to +50°C (+23°F to +122°F)
Dimensions (LxWxD):	134 x 115 x 61 mm / 5.3" x 4.5" x 2.4"
Ingress protection:	IP65

FUNCTION

The LogiCO2 oxygen sensor (O₂) has a FBO oxygen sensor with built-in temperature and pressure adjustment. The oxygen sensor is factory calibrated and measures the ambient oxygen partial pressure (ppO₂) levels. The sensor benefits from low power operation and a long lifetime (> 5 years) due to the non-depleting sensing principle.

The O₂ Sensor KIT is an instrument comprising of one Sensor Unit and one Horn/Strobe, cables and warning signs. The O₂ Sensor KIT is an add-on sensor for an existing Safety System and it is pre-set with the address: ID2. The O₂ Sensor KIT receives it's power from the existing Safety System. The Safety Systems Central Unit must be set to receive measuring values from two sensors. See section "DIP-switch settings, Number of connected sensors" in the LogiCO2 Safety System's User's Manual.

Installed properly, the O₂ sensor will continuously monitor the O₂ concentration that it is exposed to. A light emitting diode (LED) indicates that the O₂ sensor is running properly. The Mk9 O₂ sensor performs a self-calibration at regular intervals insuring calibration under normal circumstances. This eliminates the need of manual calibration in a normal environment.

The O₂-sensor has a backlit display showing the current O₂ concentration and the uptime (measure of operating time) in hours.

ALTITUDE ADJUSTMENT

The LogiCO2 Mk9 O₂ sensor has altitude compensation.

ALARM LEVELS

The default alarm level setting on the O₂ sensor is:
A-alarm (Evacuation alarm) at 19.5% O₂.

The O₂ sensor can be set to make an alarm at three different levels to comply with all local Safety Codes and legislations. Two B-alarms (service alarm) and one A-alarm (evacuation alarm) can be set. For example:

- B-Alarm at 19,5% O₂
- B-Alarm at at 23% O₂
- A-Alarm at 18% O₂

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O2 Mk9 Sensor



Horn/Strobe



SIGN O2 H/S B EN

ORDERING EXAMPLE

Description	Item code
O2 MK9 Sensor KIT	2124

O2 MK9 Sensor KIT consists of:

- O2 MK9 Sensor, incl. 5m cable
- Horn/Strobe LED, incl. 1m cable
- RJ45 splitter 1-1
- RJ45 splitter 1-4
- Cable RJ45 10m Red plugs
- Sign O2 H/S EN