



The Noventis Labsafe Dual Oxygen / Carbon Dioxide Detector unit is designed to detect the presence of Oxygen and Carbon Dioxide in ambient air for the protection of people in confined spaces and laboratories.

The monitor provides audible and visual indication of potentially dangerous levels of CO₂ as well as low Oxygen levels in the air surrounding the instrument.

Specifications

The instrument uses an Infra Red sensor for detection of Carbon Dioxide and an Electrochemical sensor for detection of Oxygen. All together in an IP65 splash proof housing, its provides long, trouble free service, with minimum maintenance.

The Alarm Repeater mimics the status indicators on the main detector enclosure. It also provides a push-button which operates in the same manner as the mode switch on the main enclosure.

If you have more than one entrance to your store room you may need more than one remote repeater. Up to three repeaters can be daisy chained (one repeater linked to another) covering up to three entrance doors.

Applications

They are however also chosen in many other applications where reliability, dependability and lack of false alarms are valued, for example in the automotive and aerospace manufacturing sectors, on scientific and research facilities and in high-utilisation medical, civil or commercial plants.



Main Detection Unit

Remote Display Alarm Unit

- Economical and reliable
- Cabling (7 metres) Included
- Easy Installation and Maintenance
- Two Relay Outputs
- Two Optional 4-20 mA Outputs
- Plug and Play; connectors pre-fitted
- Inclusive Power Supply
- Rugged and reliable
- Ideal for Laboratories using O₂ / CO₂





Specifications

General

Operating Voltage	: 115 -250 VAC
Power Consumption	: Max 230mA
Temp Operating Conditions	: 0 to 50°C
Humidity Operating Conditions	: 0 to 90%RH
Storage Conditions	: -40 to 70°C
Housing Protection rating	: IP55
Housing Material	: ABS FR
Dimensions Main Unit	: 170.0 × 126.0 × 63.0 mm
Dimensions Remote Unit	: 80.0 × 110.0 × 35.7 mm
Display	: Included both units
Output Specifications	: Dual 4-20 mA (Optional)
Relays	: Two relays
Sound Alarm	: 80 dB on both units
Visual Alarm	: Bright LED on both units
Digital	: RS485 (Optional)
Cable Entry	: M16
Recommended Calibration:	: 6 months
Approvals	: Ex d IIC T6 (IEC)
EMC compliance	: EN50270
Warm Up time	: 1 minutes

What's in the Box?

- One Main Detection Unit
- One Remote Detection Unit
- Interconnecting Cabling between Main and Remote Unit (7 metres)
- One Power Supply 240VAC
- Two Mounting Brackets
- Instruction Manual

Specifications can change without notice.

Specifications

General – CO2

Sensing Method	: Electrochemical / NDIR
Sampling Method	: Diffusion
Detection Range CO2	: 0 – 50,000 ppm
Accuracy CO2	: ±100ppm or ±5 % reading
Repeatability CO2	: ±20ppm @ 400ppm
Annual Drift CO2	: <20 ppm / Year @ 400 ppm
Response Time CO2	: <60 seconds for 90%
CO2 Sensor Rated Life	: 8 Years
Alarm 1 Preset	: 1.5 %
Alarm 2 Preset	: 3.0 %

General – Oxygen

Sensing Method	: Electrochemical
Sampling Method	: Diffusion
Detection Range Oxygen	: 0 – 30 %
Resolution	: 0.1 %
Accuracy	: Better than ± 3% of FS
Repeatability	: Less than ±1.0%
Response Time	: <30 seconds for 90%
Oxygen Sensor Rated Life	: 2 Years
Alarm 1 Preset	: 19.0 %
Alarm 2 Preset	: 17.0 %

