



CELLAR DETECTOR.
CONFINED SPACE
CARBON DIOXIDE (CO2)
& OXYGEN (O2)
MONITORING

Safety in the workplace is something that we all agree is important .
 In the past many of the improvements have been undertaken in the trades industries .
 In the hospitality industry where Premixed drinks are available, Carbon Dioxide poisoning is recognized as a workplace hazard and excess Oxygen can be an Ignition Point. Detection of these harmful gases(AS 5034) is now required in the relevant work areas .
 The Peel **CPO2CO2** is a Confined Space Detector which offers continual monitoring of both Carbon Dioxide & Oxygen. The detector is an indicative unit & can be understood without any training .All warnings are instant, visual and audible with simple decisions to be made. (**Go-Stay**). The Unit comes standard with a remote repeater/mimic unit which acts as an external global indicator. The repeater shows the monitoring status for both gases, ie. SAFE or ALARM (audible and visual).
 Comes standard with 10metre lead however on request up to 50 metre.

Features: As per the Australian Standards AS5034

- A simple automated system for air quality there is no need for further adjustments.
- All alarms are both audible and visual
 - ◆ The Carbon Dioxide CO2 has two excess alarm levels
 - ◆ The Oxygen O2 has excess and deficiency alarm levels
- All the sensors are factory calibrated to NATA certified gas references
 *Certification No. 118867/1
- Internal capacity to trigger external alarms, extraction fans, data logging etc.
- 240 Volt system with battery back up - providing a minimum of 10-24hrs*
 * depending on how many sensors are connected.
- Simplified testing- 3 Levels of self test for 6 monthly checks.
 - ◆ External voltage test points for measurements ,data logging etc (with a Multi Meter)
 - ◆ External confidence self test switches for all sensors.
- No expensive Calibration costs.
- Ease of use - Minimal training required to operate the instrument.
- Can be understood by observation without the User Manual
 *Single page A4 user manual.
- Capability of running a second remote set of CO2 and O2 sensors .
- Australian Made.
- Service and Warranty is local.

Available in any combination of the following Sensors:

- Local: 1x CO2-Carbon Dioxide
 1x O2-Oxygen
- Remote: 1x CO2-Carbon Dioxide
 1x O2-Oxygen

Product Specification

Gases detected:	O2 +/- 1.5% above and below free air of ~ 21% (20.94%) CO2 + 1.5% and +3% above free air of 0.034%
Operating temp:	- 10 to 55 deg C Carbon Dioxide sensors + 5 to 45 deg C Oxygen sensors
Humidity rating:	20-90% RH non condensing
Warm-up times:	O2 sensor instant . CO2 needs a small warm up time of 60 seconds.
Alarm levels :	O2 Deficiency 19.5% RED with audio prompt and ext switch Excess 22.5% YELLOW with audio prompt and ext switch CO2 Excess 1.5% YELLOW with audio prompt and ext switch Excess 3% RED led with audio prompt and ext switch
Response time:	Alarms are instant when the set gas levels are detected . The "all clear" is held back for a short time to allow the external fans to refresh the volume of free air
Power draw:	2.8 Watts (Switch Mode Power Supply 6V DC)
Battery run time :	min 15hrs + in 4 sensor configuration, continuous operation followed by low battery warning to recharge .
Charging time :	max 6 hrs intelligent fast charger
Unit Life :	Peel standard warranties apply for the main unit. The sensors used in this instrument are backed by the manufacturer of the sensor. All the instructions have been observed in the design process to maintain the sensor warranty.
Attachments :	Some are optional and can be selected by the customer. 1 internal O2 sensor 1 remote O2 sensor (calibrated for 5 or 10 m hard wire connection) 1 remote CO2 sensor (calibrated for 5 or 10 m hard wire connection) 1 external SMPS for charging batteries or 240v continuous operation . 1 external general Alarm display panel (hard wired tested to 50m) 1 external O2 alarm activated switch (contacts 24v @ 2 a) 1 external CO2 alarm activated switch (contacts 24v @ 2a) Plastic Protection case for hard-wired and portable operation Wall mounting kit External 4 way socket for passive alarm connections



Schematic

