

SafeCellar CO₂ Detector/Controller with Remote Display Unit

With Temp, Alarm and optional O₂ Detection

Model: WCD-CO₂-X

Alarm Levels Specification: in accordance with AS5034:2005

From fermentation through to distribution, Carbon Dioxide (CO₂) is one of the most common hazards to health in breweries, cellars and drinks outlets. It is also the fourth most abundant gas in the atmosphere. Long term exposure to only 0.5% volume represents a toxic health hazard. Concentrations greater than 15% volume can lead to death. SafeCellar products have been designed specifically to warn personnel of these hazards. Ampcontrol offers cost effective CO₂ and Oxygen (O₂) detection for breweries, wineries, cellars, beverage dispensing areas, fast food outlets and hospital, university and industrial laboratories.



Features

- + Simple to use
 - Clear Large LCD display for gas readings
 - Bright LEDs and loud, distinctive alarms
 - Two buttons for routine operation and testing
 - Remote Display units complete with cable
 - Built-in Calibration Function-Calibration Gas required
 - Available as single CO₂ or dual CO₂ / O₂
- + Protection- peace of mind
 - Continuous monitoring for carbon dioxide in cellars and other confined spaces
 - Optional oxygen sensor to detect asphyxiation hazards due to Nitrogen or Argon cylinder leaks
 - Turns on ventilation fans automatically
 - Alarm levels comply with AS5034-2005
- + Secure and robust
 - IP54 protection against dust and water ingress
 - Tough polycarbonate case
 - Wide operating temperature case
 - Dual-band infrared sensor for carbon dioxide
- + Economical
 - Turns on ventilation fans only when they are needed
 - Long term maintenance-free operation
 - Minimal sensor calibration requirements
 - Long life sensors

SafeCellar CO₂ Detector/Controller with Remote Display Unit

With Temp, Alarm and optional O₂ Detection

Specifications - Sensor Unit (SEU)



Power Pack	Voltage Input	100 ~ 240 VAC
	Frequency	50 / 60 Hz
	Cable length	2m
	Voltage output	6VDC ~0.5A

Measurement Range	CO ₂ : 0 to 5% Vol O ₂ : 0 to 30% Vol Temperature: 0-50 °C
Resolution	0.1%
Accuracy	Better than ± 3% of FS over 0.1 to 30%
Repeatability error	Less than ±1.0%
Response Time	Oxygen measurement: <30 seconds for 90% response to step change
	CO ₂ Measurement: <60 seconds for 90% response to step change
	Temperature measurement: 20-30 minutes (case must equalize with environment)
Dimensions and weight	170 x 126 x 63 mm; 459 g
Operating Conditions	0°C to 50°C, 0-95% RH, Non-condensing
Storage Temperature:	-20 to 60°C
Warm up time	< 60 seconds at 22°C
IP rating	IP 54
Display	Large LCD Display
Instrument status indicators	2 gas level concentration alarm LEDs, Red
	1 fault alarm LED, yellow
	1 power LED, green flashing
Audible Alarm	1 sounder (80 dB @ 10 cm)
Mounting	Wall mounting bracket (supplied)
Operating Humidity	0-95 % RH non-condensing
Alarm Levels Specification	In accordance with AS5034:2005

SafeCellar CO₂ Detector/Controller with Remote Display Unit

With Temp, Alarm and optional O₂ Detection

Specifications - Remote Display Unit (RDU)



Dimensions and weight	80 x 110 x 35.70mm; 130g
Operating temperature	0°C to 50°C (32°F to 122°F)
IP rating	IP 54
Display	Large LCD Display
Instrument status indicators	2 gas level concentration alarm LEDs, Red
	1 fault alarm LED, yellow
	1 power LED, green flashing
Audible Alarm	1 sounder (80 dB @ 10 cm)
Cable length	8 m standard, other lengths available
Storage Temperature:	-20 to 60°C
Warm up time	< 60 seconds at 22°C
IP rating	IP 54
Display	Large LCD Display
Instrument status indicators	2 gas level concentration alarm LEDs, Red
	1 fault alarm LED, yellow
	1 power LED, green flashing
Audible Alarm	1 sounder (80 dB @ 10 cm)
Mounting	Wall mounting bracket (supplied)
Operating Humidity	0-95 % RH non-condensing
Alarm Levels Specification	In accordance with AS5034:2005.80

Standard Kit Contents

- One Sensor Unit and One Remote Display Unit
- 240VAC to 6VDC Plug Pack
- One 6m interface cable (SEU to RDU link cable)

The SafeCellar products are specifically designed for the detection of carbon dioxide where there is a risk of toxicity due to CO₂ exposure and oxygen (optional) where there is a risk of asphyxiation as well. Remote display units are used to alert personnel, outside in the safe area, to the presence of a hazardous situation in the area being protected, to prevent entry. Up to 3 Remote Display Units can be daisy chained to a single SafeCellar Sensor Unit (SEU).

Specifications subject to change without notice.