

CO<sub>2</sub> analyser designed to monitor CO<sub>2</sub> for multiple applications, including Brewing industry. This unit has been developed to incorporate the latest technology and specification requirements, that provide the user with a fast, simple to use analyser.

## FEATURES

- CO<sub>2</sub> 0 - 100%
- Options for:
  - O<sub>2</sub> 0 - 100%
  - Dual temperature probes 0 to 50°C
  - Data storage and download
  - Humidity Sensor 0 - 100%

## BENEFITS

- Accurate CO<sub>2</sub> readings
- Quick verification of CO<sub>2</sub> levels
- Time saving with dual temperature probes
- Large data storage and user friendly software and download
- Easy to read large well lit display
- Built in gas moisture removal



## SECTOR

CO<sub>2</sub> monitoring

## APPLICATIONS

- Food Processing
- Research
- Brewing
- Medical

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## TECHNICAL SPECIFICATIONS

POWER SUPPLY		
Battery type	Li Ion	
Battery life	12 hours (10 hours with pump)	
Battery lifetime	600 cycles	
Battery charger	5Vdc external power supply and internal charging circuit	
Charge time	4 hours	
Alternative power	5Vdc power supply	
GAS RANGES		
Gases measured	CO <sub>2</sub>	By custom dual wavelength infra-red cell with reference channel
	O <sub>2</sub> (optional)	By internal electrochemical cell
Oxygen cell lifetime	Approximately 3 years in air	
Range	CO <sub>2</sub>	0 - 100%
	O <sub>2</sub>	0 - 100%
Typical accuracy*	CO <sub>2</sub>	± 1% of range after calibration
	O <sub>2</sub>	± 1% of range after calibration
Response time, T <sup>90</sup>	CO <sub>2</sub>	≤ 20 seconds
	O <sub>2</sub>	≤ 60 seconds
*Typical accuracies	All typical accuracies quoted are after calibration plus accuracy of calibration gas used.	
FACILITIES		
Temperature (optional)	x2 using optional probes, range 0°C to +50°C	
Temperature accuracy	± 0.2°C	
Barometric pressure	800- 1200 mbar	
RH measurement (optional)	RH Probe 0 - 100% RH non condensing	
RH accuracy	± 1.5% RH across the range	
Visual and audible alarms	User selectable CO <sub>2</sub> and O <sub>2</sub> alarm levels	
Communications	USB type B mini-connector, HID device class	
Data storage	1000 reading sets + 270 events	
PUMP		
Flow	100cc / min typically	
ENVIRONMENTAL CONDITIONS		
Operating temperature	0°C to 50°C	
Relative humidity	0 - 95% non condensing	
Barometric pressure	± 500 mbar from calibration pressure	
IP rating	IP40	
PHYSICAL		
Weight	495 grams	
Size	L: 165mm, W: 100mm, D: 55mm	
Case material	ABS / Polypropylene with Silicone Rubber inserts	
Keys	17 Resin capped silicone rubber keys	
Display	Liquid crystal display, 128 x 64 pixels	
	With RGB LED back-light	
Gas sample filters	Built-in gas dryer tube to remove moisture	
	User replaceable PTFE water trap filter	
CERTIFICATION		
EN 50270 : 2006	Electromagnetic compatibility- Electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen	
EN 61010-1 : 2010	Safety requirements for electrical equipment for measurement, control, and laboratory use. Part 1: General requirements	

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