



## CO2 INDOOR AIR QUALITY ANALYSER | ILLEGAL IMMIGRANT DETECTION

CO<sub>2</sub> analyser designed to monitor CO<sub>2</sub> for all indoor air quality applications. This unit has been developed to incorporate the latest technology and specification requirements, that provide the user with a fast, simple-to-use and accurate piece of environmental field kit.

### FEATURES

- CO<sub>2</sub> 0-10,000 ppm
- Options for:
  - O<sub>2</sub> 0-100%
  - Dual temperature probes 0 to 50°C
  - Data storage and download
  - Humidity sensor 0-100%
  - Preset audible and visual alarms
  - Optional 1m probe (Stowseek)

### BENEFITS

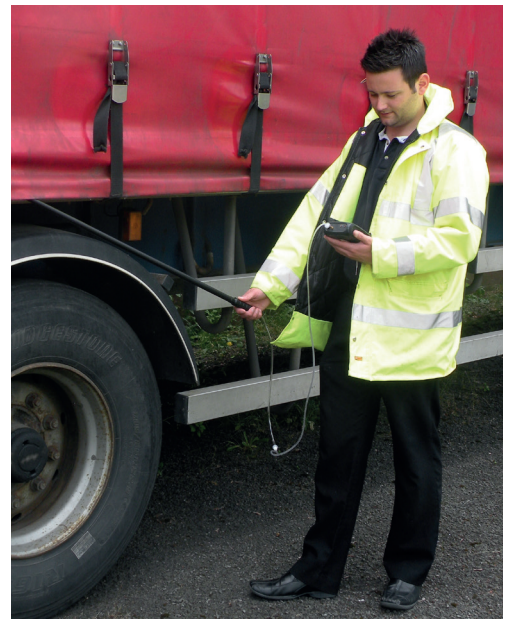
- Accurate CO<sub>2</sub> readings
- Quick verification of CO<sub>2</sub> levels for site audits
- Time saving with dual temperature probes
- Data logging for long term application
- Easy to read large well lit display
- Built in gas moisture removal

### SECTOR

- CO<sub>2</sub> monitoring

### APPLICATIONS

- General IAQ
- Environmental site audits
- HVAC System approval
- Illegal immigrant control / detection



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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>	0-10,000 ppm
	O <sub>2</sub>	0-100%
Typical accuracy*	CO <sub>2</sub>	0-10,000 ppm ± 1.5% of range after calibration (typically ± 10 ppm at 500 ppm CO <sub>2</sub> after user calibration)
	O <sub>2</sub>	± 1.0% 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)	x 2 using optional probes 0°C to +50°C (not available if humidity is selected)	
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 plus 270 events	
PUMP		
Flow	100cc / min typically	
ENVIRONMENTAL CONDITIONS		
Operating temperature	0°C to 50°C	
Relative humidity	0- 95% non condensing (RH probe 0- 100% non condensing)	
Barometric pressure	± 500mbar from calibration pressure	
IP rating	IP40	

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## TECHNICAL SPECIFICATIONS CONTINUED

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 pixel 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
EN61010-1:2010	Safety requirements for electrical equipment for measurement, control, and laboratory use. Part 1: General requirements

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