

CO₂ INDOOR AIR QUALITY ANALYSER | ILLEGAL IMMIGRANT DETECTION

CO₂ analyser designed to monitor CO₂ 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

- CO₂ 0-10,000 ppm
- Options for:
 - O₂ 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

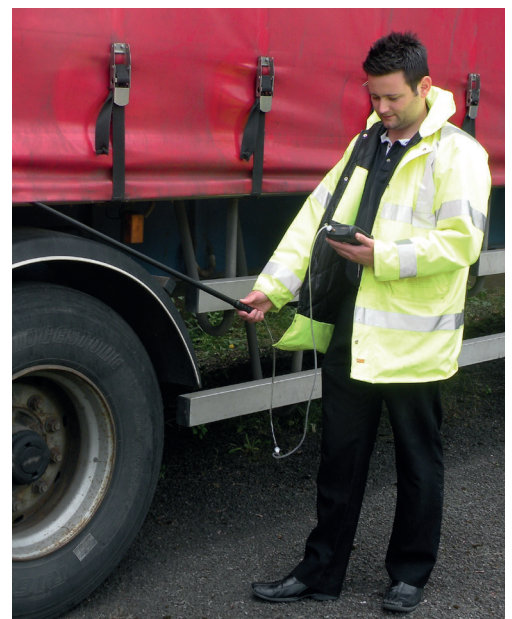
- Accurate CO₂ readings
- Quick verification of CO₂ levels for site audits
- Time saving with dual temperature probes
- Data logging for long term application
- Easy to read large well lit display
- Built in gas moisture removal

SECTOR

CO₂ monitoring

APPLICATIONS

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





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 ₂	By custom dual wavelength infra-red cell with reference channel
	O ₂ (optional)	By internal electrochemical cell
Oxygen cell lifetime	Approximately 3 years in air	
Range	CO ₂	0-10,000 ppm
	O ₂	0-100%
Typical accuracy*	CO ₂	0-10,000 ppm ± 1.5% of range after calibration (typically ± 10 ppm at 500 ppm CO ₂ after user calibration)
	O ₂	± 1.0% of range after calibration
Response time T ⁹⁰	CO ₂	≤ 20 seconds
	O ₂	≤ 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 ₂ and O ₂ alarm levels
Communications	USB type B mini-connector, HID device class
Data storage	1000 reading sets plus 270 events

PUMP

Flow	100cc / min typically
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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



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