



## 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 requirerments, that provide the user with a fast, simple-to-use and accurate piece of environmental field kit.

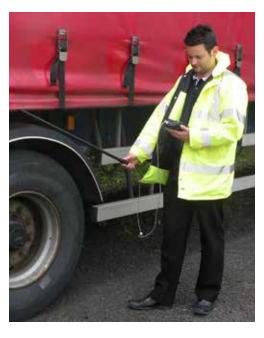


## **FEATURES**

- 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**



### **APPLICATIONS**

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



© Product designs and specifications are subject to change without notice. User is responsible for determining suitability of product.



# **TECHNICAL SPECIFICATIONS**

POWER SUPPLY			
Battery type	Li Ion	Li lon	
Battery life	12 hours (10 hours with pump)		
Battery lifetime	600 cycles		
Battery charger	5v DC external power supply and internal charging circuit		
Charge time	4 hours		
Alternative power	5v DC 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%	
Measurement accuracy*	CO <sub>2</sub>	0-10,000 ppm	
		$\pm$ 1.5% of range after calibration (typically $\pm$ 10 ppm at 500 ppm CO $_2$ 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	
* plus accuracy of calibration ga	s 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 CONDI	TIONS		
Operating temperature	0°C to 50°C	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		
Note: Due to Geotech's continous programme of improvement, this specification is subject to change without prior notice			
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		



 $@ \ Product \ designs \ and \ specifications \ are \ subject \ to \ change \ without \ notice. \ User \ is \ responsible \ for \ determining \ suitability \ of \ product.$