



**AIR QUALITY  
CHECK ANALYSER**

## G150

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.

### 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

### 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%

### Applications

- General IAQ
- Environmental Site Audits
- HVAC System approval
- Illegal immigrant control/ detection



## Technical Specifications

### G150

#### POWER SUPPLY

Battery type	Li Ion
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	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>	0-10,000ppm
	O <sub>2</sub>	0-100%
Measurement Accuracy*	CO <sub>2</sub>	± 1.5% of range after calibration (typically ± 10ppm at 500ppm CO <sub>2</sub> , after 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 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

## Technical Specifications

### G150 cont'd

#### PUMP

Flow 100cc/ min typically

#### ENVIRONMENTAL CONDITIONS

Operating temperature 0°C - 50°C

Relative humidity 0 - 95% non condensing (RH Probe 0 - 100% non condensing)

Barometric pressure  $\pm$  500mbar 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 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

EN 61010 -1:2010 Safety requirements for electrical equipment for measurement, control, and laboratory use. Part 1: General requirements

Note: Due to Geotech's continuous programme of improvement, this specification is subject to change without prior notice.