G150

CO₂ | O₂⁺

CO₂ INDOOR AIR QUALITY ANALYSER

Geotech
A subsidiary of LANDTEC

This CO₂ analyser is designed to monitor CO₂ for all indoor air quality applications. The 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%

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

G150

TECHNICAL SPECIFICATIONS

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	5v DC power supply

GAS RANGES		
Gases measured	CO_2	By custom dual wavelength infrared cell
	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%
Measurement accuracy*	CO_2	± 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
* Plus accuracy of calibration gas used		

FEATURES	
Temperature (optional)	x 2 using optional probes 0°C to +50°C (not available if humidity is selected)
Temperature accuracy	± 0.2°C
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	100 ml / 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	500 - 1500 mbar
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 backlight
Gas sample filters	Built-in gas dryer tube to remove moisture User replaceable PTFE water trap filter
Note: Due to Geotech's continuous 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
EN 61010-1:2010	Safety requirements for electrical equipment for measurement, control, and laboratory use. Part 1: General requirements