



SPECIALIST CONTROLLED
ATMOSPHERE MONITORING

G110

CO₂ analyser designed to monitor CO₂ for multiple applications, including Brewing industry. This unit has been developed to incorporate the latest technology and specification requirements, that provide the user with a fast, simple to use analyser.

Benefits

- Accurate CO₂ readings
- Quick verification of CO₂ levels
- Time saving with dual temperature probes
- Large data storage and user friendly software and download
- Easy to read large well lit display
- Built in gas moisture removal

Features

- CO₂ 0 - 100%
- Options for:
 - O₂ 0-100%
 - Dual temperature probes 0 to 50°C
 - Data storage and download
 - Humidity Sensor 0-100%

Applications

- Food Processing
- Research
- Brewing
- Medical



G110

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 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	0-100%
	O ₂	0-100%
Measurement Accuracy*	CO ₂	± 1% of range after calibration
	O ₂	± 1% of range after calibration
Response time, T ⁹⁰	CO ₂	≤ 20 seconds
	O ₂	≤ 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 ₂ and O ₂ alarm levels
Communications	USB type B mini-connector, HID device class
Data Storage	1000 reading sets + 270 events

Technical Specifications

G110 cont'd

PUMP

Flow	100cc/ min typically
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ENVIRONMENTAL CONDITIONS

Operating temperature	0°C to 50°C
Relative Humidity	0 - 95% non condensing
Barometric pressure	± 500 mbar 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 pixels 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 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