



### SPECIALIST CONTROLLED ATMOSPHERE MONITORING

## G110

New CO<sub>2</sub> analyser designed to monitor CO<sub>2</sub> 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

- Improved accuracy on CO<sub>2</sub> readings
- Quick verification of CO<sub>2</sub> 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

- CO<sub>2</sub> 0 - 100%
- Options for:
  - O<sub>2</sub> 0-100%
  - Dual temperature probes 0 to 50°C
  - Data storage and download
  - Humidity Sensor 0-100%

#### Applications

- Food Processing
- Research
- Brewing
- Medical



## Technical Specifications

### G110

#### POWER SUPPLY

Battery type	Li Ion	
Battery life	10 Hours (8 hours with pump)	
Battery charger	5v DC external power supply and internal charging circuit	
Charge time	3 hours	
Alternative power	USB connector, 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>	0-100%
	O <sub>2</sub>	0-100%
Measurement Accuracy*	CO <sub>2</sub>	± 1% of range after calibration
	O <sub>2</sub>	± 1% 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	



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## 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.



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