



ACCURATE INCUBATOR  
VERIFICATION TOOL

## G100

New CO<sub>2</sub> analyser specifically designed to monitor CO<sub>2</sub> for the verification of incubators in research and pharmaceutical markets. 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 laboratory kit.

### Benefits

- Improved accuracy on CO<sub>2</sub> readings
- Quick verification of CO<sub>2</sub> incubator 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 - 20%
- Options for:
  - O<sub>2</sub> 0-100%
  - Dual temperature probes 0 to 50°C
  - Data storage and download
  - Humidity Sensor 0-100%

### Applications

- IVF
- Research
- Laboratories
- Medical



## G100

### 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 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>	0-20%
	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)	x 2 using optional probes 0°C to +50°C
Temperature accuracy, typical	± 0.1°C from 32 to 44°C, ± 0.2°C over the rest of the range
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 alarm	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

### G100 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 (RH Probe 0 - 100% non condensing)
Barometric pressure	± 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

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