



ACCURATE INCUBATOR
VERIFICATION TOOL

G100

New CO₂ analyser specifically designed to monitor CO₂ 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 CO₂ readings
- Quick verification of CO₂ 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

- CO₂ 0 - 20%
- Options for:
 - O₂ 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 ₂	By custom dual wavelength infra-red with reference channel
	O ₂ (Optional)	By internal electrochemical cell
Oxygen cell lifetime	Approximately 3 years in air	
Range	CO ₂	0-20%
	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)	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 ₂ and O ₂ 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

ENVIRONMENTAL CONDITIONS

Operating temperature 0°C to 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

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