

G100 CO₂ INCUBATOR ANALYSER







ACCURATE INCUBATOR VERIFICATION TOOL

G100

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

- Accurate 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



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Technical Specifications

G100

POWER SUPPLY	
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Battery type	Li lon
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 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 T90	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	\pm 0.1°C from 32 to 44°C, \pm 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



Sales office:

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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 conde	nsing)
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 continous pro	gramme of improvement, this specification is subject to chang	ge without prior notice.
CERTIFICATION		
EN 50270 :2006	Electromagnetic compatibility - Electrical apparatus for t	he detection and
	measurement of combustible gases, toxic gases or oxyg	gen
N61010 -1:2010	Safety requirements for electrical equipment for measur	ement, control, and
	laboratory use. Part 1: General requirements	



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