



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 - 50°C
 - Data storage and download
 - Humidity Sensor 0-100%

Applications

- IVF
- Research
- Laboratories
- Medical



Product Specifications

G100

GAS RANGES

Gases Measured	CO ₂	By custom dual wavelength infra-red cell reference channel
	O ₂ (Optional)	By internal electrochemical cell
Oxygen cell lifetime	Approximately 3 years in air	
Range	CO ₂ O ₂	0-20% 0-100%
Measurement Accuracy	Gas	
	CO ₂	Accuracy ± (1% range +2% of reading) at reference conditions Temperature dependence ± 0.2% reading °C (typical at 5% CO ₂) Pressure dependence ± 0.02% of reading/hPa (typical at 5% CO ₂)
	O ₂	±1.0% Full Scale @ constant temperature and pressure ± 2.0% Full Scale over operating temperature range
Response time T ⁹⁰	CO ₂ O ₂	≤20 seconds ≤60 seconds

FACILITIES

Temperature (Optional)	x2 using optional probes 0 °C to +50 °C
Temperature accuracy, typical	± 0.2 °C from 32 to 44 °C, ±0.5 °C over the rest of 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 readings

ENVIRONMENTAL CONDITIONS

Operating temperature range	5 °C - 40 °C
Relative humidity	0-95% non condensing (RH Probe 0-100% non condensing)
Barometric pressure	± 200 mbar from calibration pressure

PHYSICAL

Weight	495 grams
Size	L 165mm, W 100mm, D 55 mm



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