



#### CO, INCUBATOR ANALYSER | ACCURATE INCUBATOR VERIFICATION TOOL

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.

#### **FEATURES**

- CO<sub>2</sub> 0 20%
- Options for:
  - O<sub>2</sub> 0-100%
    - Dual temperature probes 0 to 50°C
  - Data download
  - Humidity sensor 0-100%





#### **BENEFITS**

- Accurate 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

#### **SECTOR**



#### **APPLICATIONS**

- IVF
- Research
- Laboratories
- Medical



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# G100 TECHNICAL SPECIFICATIONS



Battery type
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 CO₂ By custom dual wavelength infra-red with reference channel or 20 (pottonal) By internal electrochemical cell  Oxygen cell lifetime Approximately 3 years in air  Range CO₂ 0-20% O-20% O-20%  Q₂ 0-100%  Measurement accuracy* CO₂ ± 1% of range after calibration O-2 ± 1% of range after calibration  Response time T³0 CO₂ ± 20 seconds  Q₂ ± 1% of 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  RH measurement (optional) RH Probe 0 - 100% RH non condensing  RH accuracy ± 1.5% RH across the range  Visual and audible alarm User selectable CO₂ and O₂ alarm levels  Communications USB type B mini-connector, HID device class
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       CO₂       By custom dual wavelength infra-red with reference channel         Oxygen cell lifetime       Approximately 3 years in air         Range       CO₂       0-20%         O₂       0-100%         Measurement accuracy*       CO₂       ±1% of range after calibration         Response time T³0       CO₂       ±1% of range after calibration         * plus accuracy of calibration gas used       CO₂       ≤0 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         RH measurement (optional)       RH Probe 0 - 100% RH non condensing         RH accuracy       ± 1.5% RH across the range         Visual and audible alarm       User selectable CO₂ and O₂ alarm levels         Communications       USB type B mini-connector, HID device class
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Alternative power SVdc power supply  GAS RANGES  Gases measured  CO2  O2 (optional)  Oxygen cell lifetime  Approximately 3 years in arrange  CO2  O2  O2  O2  O2  O2  O2  O2  O3  O2  O3  O2  Measurement accuracy*  O2  O2  O2  O3  O3  O4  O3  O4  O5  O3  O5  O5  O3  O5  O5  O5  O5  O5
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Communications USB type B mini-connector, HID device class
Data storage 1000 reading sets + 270 events
2000 (000) 2000 (270 00)
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 500-1500 mbar
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### TECHNICAL SPECIFICATIONS CONTINUED

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
CERTIFICATION	
EN 50270:2006	Electromagnetic compatibility - electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen
EN 61010-1:2010	Safety requirements for electrical equipment for measurement, control, and laboratory use. Part 1: General requirements

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