



DIAMOND
SCIENTIFIC

CO₂ INCUBATOR ANALYZER

G100

ACCURATE INCUBATOR
VERIFICATION TOOL



G100

CO₂ analyzer

specifically designed to **monitor CO₂** for the verification of *incubators* in IVF, medical, research and other pharmaceutical markets.

This unit has been developed to incorporate the latest technology and specification requirements. This provides the user with a fast, simple-to-use and accurate piece of laboratory equipment.

- ❖ **Ideal for IVF, medical and other laboratory applications**
- ❖ **Quick verification of CO₂ incubator levels**
- ❖ **Built in gas moisture removal**

VIASENSOR.INFO

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www.Viasensor.info
321-223-7500

Features

- CO₂ 0 – 20%
- Options for:
 - O₂ 0 – 100%
 - Dual temperature probes
32°F – 122°F (0°C – 50°C)
 - Humidity Sensor 0 – 100%
 - Data storage and download

Applications

- IVF
- Research
- Laboratories
- Medical

Key Benefits

- High accuracy on CO₂ readings
- Quick verification of CO₂ incubator levels
- Time saving with dual temperature probes
- Large data storage with software
- Easy to read large well-lit display
- Built in gas moisture removal

TECHNICAL SPECIFICATIONS:

Gas Ranges

Gases Measured	CO ₂	By custom dual wavelength Infra-red sensor 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*	Gas	
	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

Pump

Flow | 100cc/min typically

Facilities

Temperature (Optional)	X2 using optional probes, range 32°F to 122°F. (0°C to +50.0°C)
Temperature accuracy, typical	± 0.2 °C over the range (± 0.1 °C between 32-44 °C)
Barometric pressure	800-1,200 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-connect, HID device class
Data Storage	1,000 reading sets + 270 events

Environmental Conditions

Operating temperature	32°F - 122°F (0°C – 50°C)
Relative humidity	0 - 95% non condensing
Barometric pressure	±201 H ₂ O from calibration pressure, (±500mbar)

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

Physical

Weight	1.1 lbs (495 grams)
Size	L 6.5 in, W 3.9 in, D 2.2 in (L 165mm, W100mm, D55mm)
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 VIASENSOR'S continuous program of improvement, this specification is subject to change without prior notice.

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