

# VIASENSOR

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## CO<sub>2</sub> INCUBATOR ANALYZER G100

ACCURATE INCUBATOR  
VERIFICATION TOOL



G100

### CO<sub>2</sub> analyzer

specifically designed to **monitor CO<sub>2</sub>** 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 CO<sub>2</sub> incubator levels
- ❖ Built in gas moisture removal

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[www.viasensor.com](http://www.viasensor.com)

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### Features

- CO<sub>2</sub> 0 – 20%
- Options for:
  - O<sub>2</sub> 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 CO<sub>2</sub> readings
- Quick verification of CO<sub>2</sub> 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 <sub>2</sub>	By custom dual wavelength infra-red sensor with reference channel
	O <sub>2</sub> (Optional)	By internal electrochemical cell
Oxygen cell lifetime	Approximately 3 years in air	
Range	CO <sub>2</sub>	0-20%
	O <sub>2</sub>	0-100%
Measurement Accuracy*	Gas	
	CO <sub>2</sub>	± 1% of range after user calibration
	O <sub>2</sub>	± 1% of range after user calibration
Response time, T <sup>90</sup>	CO <sub>2</sub>	≤20 seconds
	O <sub>2</sub>	≤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 <sub>2</sub> and O <sub>2</sub> 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 <sub>2</sub> 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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