



**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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