VIASENSOR

CO_2 INCUBATOR ANALYZER G100

ACCURATE INCUBATOR VERIFICATION TOOL

G100

New CO_2 analyzer
specifically designed to **monitor CO_2** for the verification of ***incubators*** in IVF, medical, research and other pharmaceutical markets.

This unit has been developed to incorporate the latest technology and specifications requirements, that provide the user with a fast, simple-to-use and accurate piece of laboratory kit.

- **Ideal for IVF, medical and other laboratory applications**
- **Quick verification of CO_2 incubator levels**
- **Built in gas moisture removal**

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G100 SERIES TECH SHEET

Features

- CO_2 0 – 20%
- Options for:
  - O_2 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

- Improved accuracy on CO_2 readings
- Quick verification of CO_2 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	**Accuracy:** ±(1% of range+ 2% of reading) at reference conditions[1] **Temperature dependence:** ±0.2% reading / (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	≤20 seconds
	O_2	≤60 seconds

[1] Conditions during factory calibration, typically 25°C, 980mBar

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 from 32 to 44 °C, ±0.5°C over the rest of the range
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 or, HID device class
Data Storage	1,000 reading sets + 270 events

Environmental Conditions

Operating temperature	41°F - 104°F (5°C – 40°C)
Relative humidity	0 - 95% non condensing
Barometric pressure	±201 "H_2O from calibration pressure, (±500mbar)

Pump

Flow	100cc/min typically

Power Supply

Battery type	Li Ion
Battery life	10 Hours (8 hours with pump)
Battery lifetime	>300 Cycles
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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