G100

Geotech

CO_2 INCUBATOR ANALYSER | ACCURATE INCUBATOR | VERIFICATION TOOL

CO_2 analyser specifically designed to monitor CO_2 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_2 0- 20%
- Options for:
  - O_2 0-100%
  - Dual temperature probes 0 to 50°C
  - Data storage and download
  - Humidity sensor 0-100%

BENEFITS

- Accurate CO_2 readings
- Quick verification of CO_2 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

CO_2 monitoring

APPLICATIONS

- IVF
- Research
- Laboratories
- Medical

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TECHNICAL SPECIFICATIONS

POWER SUPPLY		
Battery type	Li Ion	
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	CO_2	By custom dual wavelength infra-red 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*	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		
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	
Barometric pressure	800- 1200 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-connector, HID device class	
Data storage	1000 reading sets + 270 events	
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	± 500mbar from calibration pressure	
IP rating	IP40	

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
EN61010-1:2010	Safety requirements for electrical equipment for measurement, control, and laboratory use. Part 1: General requirements

© Product designs and specifications are subject to change without notice. User is responsible for determining suitability of product.

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