

## CO<sub>2</sub> INCUBATOR ANALYSER | ACCURATE INCUBATOR VERIFICATION TOOL

CO<sub>2</sub> analyser specifically designed to monitor CO<sub>2</sub> 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<sub>2</sub> 0 - 20%
- Options for:
  - O<sub>2</sub> 0-100%
  - Dual temperature probes 0 to 50°C
  - Data download
  - Humidity sensor 0-100%

### BENEFITS

- Accurate CO<sub>2</sub> readings
- Quick verification of CO<sub>2</sub> 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<sub>2</sub> monitoring

### APPLICATIONS

- IVF
- Research
- Laboratories
- Medical



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| 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 <sub>2</sub>   | By custom dual wavelength infra-red 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*                   | CO <sub>2</sub>   | ± 1% of range after calibration                            |
|   | O <sub>2</sub>  | ± 1% of range after 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 |   |  |
| 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     |  |
| 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-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                     | 500-1500 mbar   |  |
| IP rating                               | IP40  |  |

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TECHNICAL SPECIFICATIONS *CONTINUED*

| 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<br>With RGB LED back-light  |
| Gas sample filters | Built-in gas dryer tube to remove moisture<br>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 |
| EN 61010-1:2010    | Safety requirements for electrical equipment for measurement, control, and laboratory use.<br>Part 1: General requirements         |

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