

COA-2010-F Electronic CO₂ Analyzer

New electronic CO₂ analyzer specifically designed to monitor CO₂ and temperature 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.

Benefits

- Improved accuracy on CO₂ readings
- Quick verification of CO₂ 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

Applications

- Calibration of inbuilt CO₂ sensor in Esco CelCulture® CO₂ incubators
- Calibration of inbuilt temperature sensor in Esco CelCulture® CO₂ incubators
- Measurement of CO₂ level in CO₂ incubators
- Measurement of temperature in CO₂ incubators



Product Specification

COA-2010-F (Electronic CO₂ Analyzer)

Gas Ranges

Gas Measured	CO ₂	By custom dual wavelength infra-red cell reference channel
Range	CO ₂	0-20%
Measurement Accuracy	Gas	CO ₂
	CO ₂	Accuracy ± (1% range +2% of reading) at reference conditions Temperature dependence ± 0.2% reading °C (typical at 5% CO ₂) Pressure dependence ± 0.02% of reading/hPa (typical at 5% CO ₂)
Response Time T ⁹⁰	CO ₂	≤20 seconds

Facilities

Temperature (Optional)	x2 using optional probes 0°C to +50°C
Temperature Accuracy, Typical	± 0.2°C from 32 to 44°C, ± 0.5°C over the rest of range
Barometric Pressure	800-1200 mbar
Visual and Audible Alarm	Selectable CO ₂ alarm levels
Communications	USB type B mini-connector, HID device class
Data Storage	1000 reading sets + 270 events

Environmental Conditions

Operating Temperature Range	5°C - 40°C
Barometric Pressure	± 500 mbar from calibration pressure
IP Rating	IP40

Power Supply

Battery Type	Li Ion
Battery Life	10 hours (8 hours with pump)
Battery Lifetime	>300 Cycles
Battery Charger	5 V DC external power supply and internal charging circuit
Charge Time	3 hours
Alternative Power	USB connector DC power supply

Pump

Flow	100 cc/min typically
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Environmental Conditions

Operating Temperature Range	5°C - 40°C
Barometric Pressure	± 500 mbar from calibration pressure

Physical

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 backlight
Gas Sample Filters	Built-in gas dryer tube to remove moisture Replaceable PTFE water trap filter
Weight	495 g
Dimension (W x D x H)	165 x 100 x 55 mm (6.5" x 3.9" x 2.2")



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