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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 Specifications

COA-2010-F (Electronic CO ₂ 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		User selectable CO ₂ alarm levels
Communications		USB type B mini-connector, HID device class
Data Storage		1000 readings
Enrionmental Conditions		
Operating Temperature Range		5 °C - 40 °C
Barometric Pressure		± 200 mbar from calibration pressure
Physical		
Weight		495 grams
Size		L 165mm, W 100mm, D 55 mm

Technical Specification

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
Gas Ranges		
Gas Measured	CO ₂	By custom dual wavelength Infra-red cell with reference channel
Range	CO ₂	0-20%
Measurement Accuracy	Gas	CO ₂
	CO ₂	Accuracy: $\pm(1\% \text{ of range} + 2\% \text{ of reading})$ at reference conditions ¹ Temperature dependence: $\pm 0.2\% \text{ reading} / ^\circ\text{C}$ (typical at 5% CO ₂) Pressure dependence: $\pm 0.02\% \text{ of reading} / \text{hPa}$ (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		User selectable CO ₂ alarm levels
Communications		USB type B mini-connector, HID device class
Data Storage		1000 reading sets + 270 events
Pump		
Flow		100cc/min typically
Enrionmental Conditions		
Operating Temperature Range		5 °C - 40 °C
Barometric Pressure		± 200 mbar from calibration pressure
IP Rating		IP40
Physical		
Weight		495 grams
Size		L 165mm, W 100mm, D 55 mm
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



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Use the above details to contact us if this literature doesn't answer all your questions.

Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

