COA-2010-F
Electronic CO_2 Analyzer

New electronic CO_2 analyzer specifically designed to monitor CO_2 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 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

Applications
- Calibration of inbuilt CO_2 sensor in Esco CelCulture CO_2 incubators
- Calibration of inbuilt temperature sensor in Esco CelCulture CO_2 incubators
- Measurement of CO_2 level in CO_2 incubators
- Measurement of temperature in CO_2 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

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: ±(1% of range+ 2% of reading) at reference conditions[1] Temperature dependence: ±0.2% reading /oC (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 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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