

COA-2016-F Electronic CO₂ Analyzer

New electronic CO_2 analyzer specifically designed to monitor CO_2 , O_2 and temperature for the verification of incubators in research, IVF, 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 and O₂ readings
- Quick verification of CO₂ and O₂ 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 CO_2 and O_2 levels in CO_2 incubators
- Measurement of temperature in CO₂ incubators



Product Specification

COA-2016-F (Electronic CO ₂ Analyzer)			
Gas Ranges			
Gas Measured	CO ₂	By custom dual wavelength infra-red cell reference channel	
	O ₂	By internal electrochemical cell	
Range	CO ₂	0-20%	
	O ₂	0-100%	
Measurement Accuracy	Gas	CO ₂ /O ₂	
	CO ₂	Accuracy \pm (1% range +2% of reading) at reference conditions Temperature dependence \pm 0.2% reading °C (typical at 5% CO ₂) Pressure dependence \pm 0.02% of reading/hPa (typical at 5% CO ₂)	
	O ₂	±1.0% Full scale at constant temperature and pressure ±2.0% Full scale over operating temperature range	
Response Time T ⁹⁰	CO ₂	≤20 seconds	
		≤60 seconds	
Facilities Facilities Facilities			
Temperature (Optional)		x2 using optional probes, range 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 and O 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 lon		
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		
Environmental Conditions			
Operating Temperature Range	5°C - 40°C		
Barometric Pressure	± 500 mbar from calibration pressure		
Physical 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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