



COA-2010-F Electronic CO, 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
- \bullet Measurement of temperature in CO_2 incubators



Product Specification

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 \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)		
Response Time T ⁹⁰	CO ₂	≤20 seconds		
Facilities 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 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	
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")	



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				
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	
Case Material	ABS / Polypropylene with silicone rubber inserts	
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Dimension (W x D x H)	165 x 100 x 55 mm (6.5" x 3.9" x 2.2")	



COA-2017-F Electronic CO, Analyzer

New electronic CO_2 analyzer specifically designed to monitor CO_2 , O_2 , %RH 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 O₃ 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
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Applications

- Calibration of inbuilt CO₂ sensor in Esco CelCulture[®] CO₂ incubators
- Calibration of inbuilt temperature sensor in Esco CelCulture® CO₂ incubators
- Measurement of CO₂ and O₂ levels in CO₂ incubators
- \bullet Measurement of temperature in CO_2 incubators
- Measurement of Relative Humidity



Product Specification

COA-2017-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		
Relative Humidity	%RH	By capacitative measurement		
	CO ₂	0-20%		
Range	O ₂	0-100%		
	%RH	1%-95%		
	Gas	CO ₂ /O ₂		
Measurement Accuracy	CO ₂	Accuracy \pm (1% range \pm 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		
	%RH	±1.3 %RH at 31°C		
	CO ₂			
Response Time T ⁹⁰	O ₂	≤20 seconds		
	%RH			
		Facilities		
Temperature (Optional)		x2 using optional probes, range 0°C to +50°C		
Temperature Accuracy, Typ	ical	\pm 0.2°C from 32 to 44°C, \pm 0.5°C over the rest of range		
Barometric Pressure		800-1200 mbar		
Visual and Audible Alarm		Selectable $\mathrm{CO_2}$ and $\mathrm{O_2}$ 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		
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Operating Temperature Range	5°C - 40°C		
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