

CARBON MONOXIDE ANALYSER

CMA-3330

The CMA-3330 Carbon Monoxide analyser delivers precise and reliable performance at excellent value. It uses proven NDIR gas filter correlation technology to measure CO in ambient air (LDL <40 ppb, range 0-200ppm).

▶▶▶ Approvals

- US EPA approval (RFCA-0509-174).
- EN approval TUV 936/21221977/D.
- Australian Standard: AS 3580.7.1-2011.
- Russian approval: 56262-14.



▶▶▶ BENEFITS

The range of analysers have been designed using our experience and knowledge gained from operating large air quality monitoring networks for more than 35 years. The result, instruments that integrate seamlessly into continuous monitoring networks.

▶▶▶ Benefits include:

- Guaranteed performance with a two year warranty.
- Minimises time spent on site performing maintenance through superior remote instrument control, diagnostic viewing and calibration.
- Comprehensive data logging and remote viewing of over 200 operational parameters.
- Versatile interfacing through RS232, USB
- Bluetooth, analogue and optional TCP/IP.
- Easier setup through an intuitive menu system with “Quick Menu”, advanced GUI and a large keypad with tactile keys.
- Instant display of operational status using illuminated traffic lights on the front panel.
- Removable flash memory stores 10 years of data, including up to 12 individual parameters and event logs. Operational parameters can also be transferred to memory for easy retrieval.
- Latest firmware updates can easily be installed using the USB flash memory drive.
- Programming, viewing, downloading and emailing of data is made even simpler using Bluetooth connectivity combined with the “Remote” Android App.
- Enhanced operator safety through the use of 12VDC internal voltages.
- Reduced cost of spare parts, accessories and consumable items through extensive use of standard components across the range.
- Rack slide design makes accessing internal components and removing the analyser from a rack cabinet easy.
- Sample pump versatility-choose either an external sample pump suitable for use by multiple analysers or the optional low power internal pump.
- AQM system power usage can be reduced due to the instrument’s low power demand and its ability to operate over a wide temperature range.

►►► Specifications

Range:	Autoranging 0-200ppm (Analogue ranges 0-50 ppb to 0-200 ppm)
Concentration display:	User selectable mg/m ³ , µg/m ³ , ppm, ppb, ppt
Noise:	< 0.02 ppm or 0.2% of concentration reading whichever is greater
Lower detectable limit:	0.04< ppm or 0.2% of reading whichever is greater
Linearity:	< 1% of full scale (0-50 ppm)
Precision:	0.1 ppm or 0.1% of reading whichever is greater
Zero drift:	24 hours: < 0.1 ppm 7 days: <0.1 ppm
Span drift:	7 days: < 0.5% of reading
Response time:	60 seconds to 95%
STP reference:	0°C, 20°C, 25°C at 101.3kPa
sample flow rate:	1000 cc/min
Temperature range:	-40°C
Power:	100-240VAC, 50 to 60 Hz (Autoranging) 260 VA (max startup), 150 VA (nominal)
Dimensions (wxhxd):	RU, 3.5 429 x 175 x 638 mm
Weight:	17.8 kg

►►► Communications:

- USB port (digital communication).
- Bluetooth (digital communication via Android App.)
- TCP/IP Ethernet network connection (optional).
- RS232 Port 1: Digital communication.
- RS232 Port 2: Multidrop port.
- Protocols: Modbus RTU/TCP, Bavarian, EC9800, Advanced.

►►► Inputs/outputs: 25 pin I/O port

- Menu selectable current or voltage output 0-20mA, 4-20 mA, or 0-5 VDC.
- Menu selectable offset of set of 0%, 5% or 10%.
- Auto-ranging from 0-50 ppb to 0-200ppm (between two user specified full scale values).
- 3 scalable analogue inputs, 0-5v, 160µV resolution.
- 8 logic level digital status inputs/8 open collector digital outputs.

►►► Data logging : Removable USB flash memory that stores data in the following formats:

- Instantaneous data from: 1, 3, 5, 10, 30, or 60 minute intervals and 2, 5, 10, 30, seconds.
- Average data from: 1, 3, 5, 10, 15, 30 minutes, 1, 4, 8, 12, or 24 hours.
- Data storage of 10 years of 12 parameters, 1 minute data on 8 Gb memory.

►►► Options & Accessories

- Extended measurement range.
- External AC powered pump (capable of operating 3 analysers, excluding NO_x).
- Internal long life, low power maintenance free pump (Max 6 watts).
- Dual filter (particulate), high pressure zero/span valves, Rack slides.
- TCP/IP network port.
- Integrated CO₂ sensor (range: 0-2000 ppm, accuracy: +/- 2%).
- Printed manual-electronic manual supplied with analyser.



▶▶▶ HPLC Servicing, Validation, Trainings and Preventive Maintenance:

- HPLC Servicing :We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.
- Trainings :We also take up preventive Maintenance to reduce downtime of HPLC's
- AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, troubleshooting.
- Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/U SFDA norms
- Instruments :We offer instruments / Renting Services Modules like pumps, detector etc. on Rent.



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UV/VIS Spectro 2060+ Double Beam	FTIR	Gas Chromatograph 3000	Gas Chromatograph 2979 Plus	Flash Chromatograph	Atomic Absorption Spectrophotometer	Liquid Partical Counter
Optical Emission Spectrophotometer	DSC/TGA	NOVA 2020 plus Automated Bio Chemistry Analyzer	HEMA 2020 Hematology Analyzer	Micro Plate Reader/Washer	Water purification system	Total Organic Carbon
Fully Automated CLIA	NOVA Basic Semi -Auto Chemistry Analyzer	PCR/Gradient PCR/ RTPCR	Blood Gas Analyzer	Random access Analyzer for immunoassay Proteins & clinical chemistry	Semen Analyzer	Water Purification System

▶▶▶ Regulatory compliances



▶▶▶ Corporate Social Responsibility

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Analytical
Foundation

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3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds, souls and body by means of Yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

▶▶▶ Reach us @



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