

CGA - 3400

COMBUSTION GAS ANALYZER



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

►► COMPACT :

- Has been designed to measure flue gases on
- Boilers
- Burners
- Engines
- Has been developed to meet the customers need
- Is a high quality combustion gas analyzer using the latest sensor technology
- Is easy to use and measures all the important parameters to adjust and optimize the combustion process

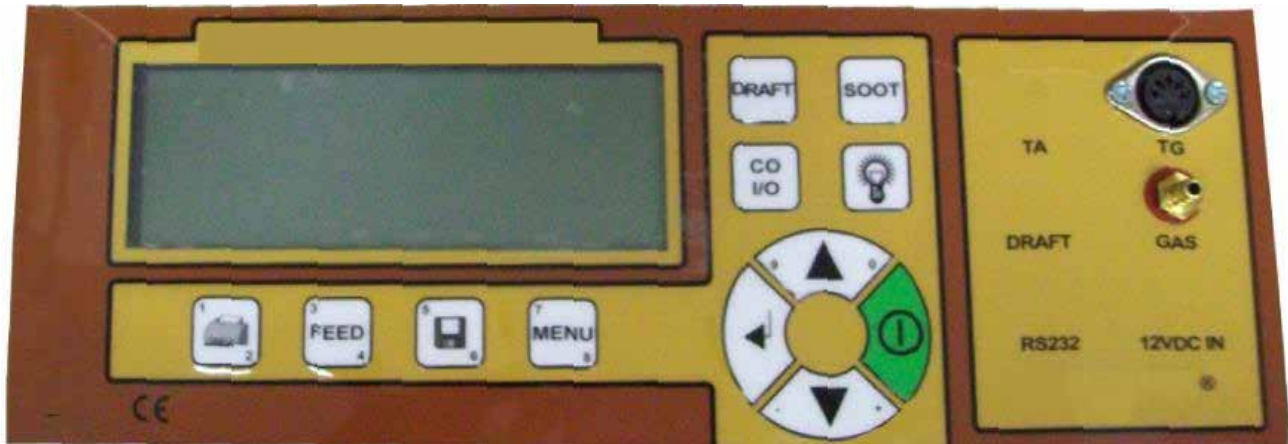
►► STANDARD FEATURES :

- Portable and very compact combustion gas analyzer housed in a rugged aluminum case
- Simultaneous measurement of
 - O₂ Oxygen
 - CO Carbon Monoxide
 - TG Flue-gas temperature
- Calculation of following parameters according ASME-equations
 - Combustion efficiency
 - Losses
 - Excess Air
 - CO₂ Carbon Dioxide
- 7 Fuels are programmed – 5 fuels are programmable
- Automatic zero calibration
- Integrated self-check program
- Simultaneous display of eight parameters on the illuminated display
- Unit selection : ppm - mg - mg(ref O₂) – mg/kWh
- Gas sampling probe E – length 0.8 ft , hose 8 ft
- Rechargeable battery with charger
- Power supply 110V or 230V

►► OPTIONAL FEATURES :

- | | |
|---|--|
| • Ambient air temperature probe | • Gas sampling probe with heated handle |
| • CO ₂ -measured (NDIR sensor) | • Gas sampling probes with different lengths |
| • HC-measurement | • Electronic controlled soot measurement |
| • CO-bypass valve with purging pump | • Draft measurement |
| • RS 232 (USB type B port) | • NO-measurement |
| • Memory for 200 measurements | • SO ₂ -measurement |
| • 12V DC power jack | • NO ₂ -measurement |
| • Printer (1400 C/P) | |

►► SPECIFICATION :



PARAMETER	PRINCIPLE	RESOLUTION	ACCURACY	RANGE	STANDARD
O ₂ Oxygen	Electro-chemical cell	0.1 Vol. %	± 0.2 %	0-20.9 Vol. %	√
CO Carbon monoxide	Electro-chemical cell	1 ppm	5 %	0-2000/4000ppm	√
CO _p CO pure	Calculation	1 ppm	5 %		√
NO Nitric oxide	Electro-chemical cell	1 ppm	5 %	0-2000 ppm	
NO ₂ Nitric dioxide	Electro-chemical cell	0.1 ppm	5 %	0- 100 ppm	
SO ₂ Sulfur dioxide	Electro-chemical cell	1 ppm	5 %	0-4000 ppm	
HC Hydrocarbons	Sensor	0.1%	5 %	0-100% LEL	
TG Flue gas temperature	NiCr-Ni thermocouple	1°C/1°F	± 2 %	-20° F / 1200° C	√
TA Air temperature	Semiconductor	1°C/1°F	± 2 %	-20° F / 120° C	
P Draft	Solid state	0.004" H ₂ O	± 2 %	- 12" / 20" H ₂ O	
CO ₂ Carbon dioxide**	Calculation	0.1 Vol. %	± 0.2 %	0- CO ₂ max	√
Efficiency	Calculation	1 %	± 0.5 %	0-999 %	√
Losses	Calculation	1 %	± 0.5 %	0-999 %	√
Excess Air	Calculation	1 %	± 2 %	0-999 %	√
Soot	Filter paper method				

HPLC Servicing, Validation, Trainings and Preventive Maintenance :

HPLC Servicing :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 Trainings.

AMC's/CMC :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-shooting.

Validations :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

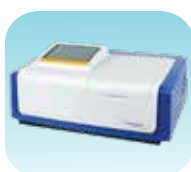
Instruments :Instruments :We offer instruments/Renting Services Modules like pumps,detector etc. on Rent.



About Analytical Technologies

Analytical Technologies is synonymous for offering technologies for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the global. Analytical Technologies Limited is an ISO:9001 Certified Company engaged in Designing, Manufacturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers. Distributors & Channel partners worldwide.

Our Products & Technologies



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Spectro 2080+
Double Beam



Infra FTIR



Optima Gas
Chromatograph
3007



Optima Gas
Chromatograph
2979 Plus



Flash
Chromatograph



Atomic Absorption
Spectrophotometer



Liquid Particle
Counter



Optical Emission
Spectrophotometer



DSC/TGA



Semi Auto Bio
Chemistry Analyzer



HEMA 2062
Hematology
Analyzer



Micro Plate
Reader/Washer



URINOVA 2800
Urine Analyzer



Total Organic
Carbon 3800



Fully Automated
CLIA



NOVA-2100
Chemistry Analyzer



PCR/Gradient PCR/
RTPCR



TOC
Analyzer



Laser Particle
Size Analyzer



Ion Chromatograph



Water purification
system

Regulatory compliances



Corporate Social Responsibility

Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



Analytical
Foundation

1. Research & Innovation Scientist's awards/QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at Info@analyticalfoundation.org

2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

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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