

BG-3800

Blood Gas Analyzer



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

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

►► Specifications

- **Sample:**

Whole blood, Serum, Plasma, Dialysate, CSF

- **Model name :**

BG 3800: pH pCO₂ pO₂ K⁺ Na⁺ Cl⁻ Ca⁺⁺ Hct

BG 3800A: pH pCO₂ pO₂ Hct

BG 3800B: pH pCO₂ pO₂ K⁺ Na⁺ Cl⁻ Hct

BG 3800Q: pH pCO₂ pO₂ K⁺ Na⁺ Cl⁻ Ca⁺⁺ Hct AutoQC

BG 3800AQ: pH pCO₂ pO₂ Hct AutoQC

BG 3800BQ: pH pCO₂ pO₂ K⁺ Na⁺ Cl⁻ Hct AutoQC

BG 3800E: pH pCO₂ pO₂ K⁺ Na⁺ Cl⁻ Ca⁺⁺ Hct Lac Glu

BG 3800EQ: pH pCO₂ pO₂ K⁺ Na⁺ Cl⁻ Ca⁺⁺ Hct Lac Glu AutoQC

- **Measured Parameters:**

Analyte	Measuring range	Unit
Hydrogen ion activity(pH)	6.000—9.000	pH scale
Carbon dioxide partial pressure(pCO ₂)	0.667—26.67	KPa
Oxygen partial pressure(pO ₂)	5.0—200.0	mmHg
	0—106.7	Kpa
	0—800.0	mmHg
Potassium ion(K ⁺)	0.50—10.00	mmol/L
Sodium ion(Na ⁺)	50.0—200.0	mmol/L
Chloride ion(Cl ⁻)	20.0—200.0	mmol/L
Ionized calcium(Ca ⁺⁺)	0.10—5.00	mmol/L
Hct	12.0—65.0	%
B.P.	500—800	mmHg
Glucose	1.1—66.7	mmol/L
Lactate	0.4—30.0	mmol/L



• **Derived(Calculated) Parameters:**

pH(TC)	pH temperature corrected
pCO ₂ (TC)	pCO ₂ temperature corrected
pO ₂ (TC)	pO ₂ temperature corrected
TCO ₂	0-50mmol/L
HCO ₃	0-50mmol/L
Be _b	-25.0-25mmol/L
Be _{ecf}	-25.0-25mmol/L
SBC	0-50mmol/L
sO ₂ %	40-100.0%
Ca ⁺⁺ (7.4)	Ionized calcium “normalized” to pH 7.4
TCa	Total calcium content
AG	Anion gap
RI	0.0-70.0
AaDO ₂	0-700mmHg
O ₂ SAT	Oxygen Saturation
tHb(c)	Hemoglobin(Calculated)

• **Input parameter :**

Patient Temperature
Hemoglobin
FiO₂
B. P.

• **Interface :**

Serial Line RS-232
TCP/IP interface
USB port
Integrated Bar-code reader

Analysis Time	<90s
Sample Volume	95uL Whole blood (120uL if with Glu and Lac) 50uL Capillary blood
Calibration	Automatic, programmable 1-point and 2-point calibration
Data Storage	>10000
Display	10.4” TFT touch screen
Battery	Nickel-metal hydride battery,3.0Ah
Printer	Build-In Thermal printer, 70mm
Barcode Reader	Up to 14 kinds barcode type

• **Dimension :**

Instrument	400(W)X574(H)X344(D) mm3
CAL PAK	258(W)X 180(H) X 70(D) mm3
AUTOQC	103(W)X180(H)X70(D) mm3
Weight	18kg
Work Enviroment	15°C ~ 30°C
Storage Enviroment	5°C ~ 40°C
Power supply	100-240V ~ 50/60 Hz

- This new designed blood gas analyzer has a convenient disposable calibrants cartridge containing flush solution, mixed gas and liquid calibrants, waste container. The gas tanks are eliminated. This new cartridge design can avoid operator biological hazards and environment pollution.

Intuitive Touch screen

High resolution 10.4" touch screen
 User-friendly operation interface
 Parameter area provides analyzer status at a glance
 Online operation and self-diagnostic tutorials

Reliable and convenient measurement unit

High resolution 10.4" touch screen
 User-friendly operation interface
 Parameter area provides analyzer status at a glance
 Online operation and self-diagnostic tutorials

Infrared human-detector

Flexible and simple calibrants cartridge

High and low volume testing cartridge can be chose(300,200,150,100,50).
 30 days available on board
 Stored at room temperature
 All-in-one design without extra consumables
 Cartridge expiration alarm and residue information

AutoQC cartridge

Optional AutoQC cartridge containing 3 levels QC design
 Auto H/M/L QC once per days, customer can define 30 days available on board
 Stored at room temperature All-in-one design without extra consumables
 Cartridge expiration alarm and residue information Auto-stop analysis sample once failing on QC



Easy to use

The sample adaptor is suitable for both syringe and capillary samples. The sample probe's wiper provides convenience, sample integrity and user safety.

Fast data input

Easy sample and patient ID input Convenient bar-code calibrants and Auto-QC cartridge replace Easy bar-code consumables identification

Rich data management

RS-232 interface LIS connection under HL7 protocol
Data backup with USB port

Compact, flexible

Size(mm) W*H*D: 400×574×344 Easy move with rolling stand
Nickel-metal hydride battery,3.0Ah

Test Menu

pH, pCO₂ , pO₂ , Hct, K⁺ , Na⁺ , Ca⁺⁺ , Cl⁺ , Glu, Lac

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.

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Chromatograph
3007



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Chromatograph
2979 Plus



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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
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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

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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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