

BG - 3800

BLOOD GAS ANALYZER



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

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

▶▶ **Innovative Optical Technology**

The BG - 3800 utilizing the latest Optical Fluorescence Technology. This unique patented technology does not use traditional electrodes or contact points, which eliminates the need for costly electrode maintenance. It uses maintenance free optical sensors.

▶▶ **Accurate Results**

Reduce pre-analytical errors with Automatic Sample Aspiration, bubble and clot detection and step by step picture instructions on the High resolution large colorful touch screen.

▶▶ **Significant Cost Savings**

The BG 3800 analyzer provides lab quality results with zero standby cost. The single use consumable. Stored at room temperature, is only used during a measurement and safety locks waste inside.

▶▶ **Simplify Compliance**

Compliance and audit trails are made easy with QC Lockouts, maintenance log and multiple levels security. Save time and reduce errors by using the built in barcode scanner to quicker enter user ID and patient Ids.

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**▶▶ MEASURED
PARAMETERS**
Range
RESOLUTION

pH	6.6 - 7.8 pH units	0.001 pH units
pCO ₂	10 - 200 mmHg	0.1 mmHg
pO ₂	10 - 700 mmHg	0.1 mmHg
tHb	5 - 25 g/dL	0.1 g/dL
sO ₂	60% - 100%	0.1%
Na ⁺	100 - 180 mmol/L	0.1 mmol/L
K ⁺	0.8 - 10 mmol/L	0.01 mmol/L
Ca ⁺⁺	0.2 - 3.0 mmol/L	0.01 mmol/L
Cl ⁻	50 - 160 mmol/L	0.1 mmol/L
Glucose	1.7 - 22.2 mmol/L (30 - 400 mg/dL)	0.1 mmol/L (0.1 mg/dL)
Lactate	0.3 - 17.5 mmol/L (2.7-157.7 mg/dL)	0.01 mmol/L (0.1 mg/dL)
BUN(Urea)	2.8 - 112.0 mg/dL (1 - 40 mmol/L)	0.1 mg/dL (0.01 mmol/L)
Barometric Pressure	300 - 800 mmHg	0.1 mmHg

CALCULATED PARAMETERS

Actual Bicarbonate (HCO_3^-)
 Standard Bicarbonate (st. HCO_3^-)
 Base Excess (BE)
 Base Excess Extra Cellular Fluid
 (BEecf)
 Base Excess Actual (BEact)
 Buffer Base (BB)
 Standard pH (st.pH)
 Hydrogen Ion Conc. (cH^+)
 Total CO_2 (tCO_2)
 Oxygen Saturation (SO_2)
 Oxygen Content (O_2ct)
 Alveolar-arterial O_2 Conc. (AaDO_2)
 P50
 St. Ionized Calcium (pH=7.4)
 (nCa^{++})
 Hematocrit (Hct)
 Anion Gap

INPUT PARAMETERS

Operator ID
 Patient ID
 Accession Number
 Date of Birth
 Sex
 Temperature
 Medical Record Number
 Account Number
 Test ID
 Patient Name
 Age
 Attending Physician
 Patient Location
 Sample Collection Time
 Sample Type
 Puncture Site
 Allen's Test
 tHb Type
 O2 Mode
 Vent Mode
 Pplat
 Mvol
 PIP
 Litre Flow
 Tvol
 PS
 PEEP
 Rate
 CPAP
 FIO₂
 MCHC
 RQ
 P50
 Bilevel Pressure
 I/E Ratio
 Comment field

▶▶ **Wide Operating Temperature**

The BG 3800 analyzer has a measuring chamber heated to 37 C. This allows for a wide operating temperature to meet the needs of colder environments such as the operating room

▶▶ **Comprehensive Test Menu**

To help meet exact testing needs, the BG 3800 has a variety of cassettes configuration available. Each cassette comes individually wrapped in cartons of 25 tests, reducing the potential for consumable waste.

▶▶ **Advance Communication**

The BG 3800 analyzer now features a standard POCT 1 interface for bi-direction communication and can be interfaced to any LIS/HIS using the Ethernet.

▶▶ **Rechargeable Battery, Thermal Printer & Cassette Shelf Life**

Longer Lasting Rechargeable Battery Backup of upto 8 hours. Allows blood gas testing when electric service is not available. Also it has built in Fast Load Thermal Printer and Long Cassette Shelf Life having 6-12 months from the date of manufacture.

▶▶ **Quality Control**

BG 3800 provides tri levels Liquid Quality Controls and Electronic QC as well to check the performance of the analyzer on regular and as and when required basis.

▶▶ **OPERATING PARAMETERS**

Minimum Sample Size: 125 µL, 60µL for B-60 cassette

Sample Type: Whole Blood, Plasma, or Serum

Sample Application: Syringe, Capillary or Comfort Sampler™

Sample Input: Automatic Aspiration

Analysis Time (Time to Results): < 120 Seconds

Ambient Temperature: 10° C - 30° C (50°F - 86°F)

Relative Humidity: 5% - 95% (Non-Condensing)

Available Languages: English & 10 others

▶▶ **DATA BASE**

Patient Data: 500 Records
QC Data: 70 Records Per Level
SRC Data: 105 Records per Level

▶▶ **SECURITY**

Storage for 300 Operator IDs (11) Digits) & Passwords
Associated PIN (4 Digits)
Password Protected Analyzer Setup
Operation and Delete Functions
User Definable QC Lockout Functions

▶▶ **MISCELLANEOUS**

Power Consumption (Max.): 110 VA
Interface: ASTM, ASCII, and POCT1 protocols
(Ethernet and USB Serial)
Ports: USB Type A
Approvals: CE, UL, IVDD, FDA 510k cleared
Size: 4.7 H x 14.2 W x 9.1 D in (12.0 x 36.2 x 23.0 cm)
Weight: 4.3 kg (9.6 lbs) with rechargeable Battery Pack
Voltage/Frequency: 120 or 240 AC/50-60 Hz

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+
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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
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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.



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