

Specification

Sample:

Whole blood, Serum, Plasma, Dialysate, CSF

Model name :

BG 800: pH pCO₂ pO₂ K⁺ Na⁺ Cl⁻ Ca⁺⁺ Hct
 BG 800A: pH pCO₂ pO₂ Hct
 BG 800B: pH pCO₂ pO₂ K⁺ Na⁺ Cl⁻ Hct
 BG 800Q: pH pCO₂ pO₂ K⁺ Na⁺ Cl⁻ Ca⁺⁺ Hct AutoQC
 BG 800AQ: pH pCO₂ pO₂ Hct AutoQC
 BG 800BQ: pH pCO₂ pO₂ K⁺ Na⁺ Cl⁻ Hct AutoQC
 BG 800E: pH pCO₂ pO₂ K⁺ Na⁺ Cl⁻ Ca⁺⁺ Hct Lac Glu
 BG 800EQ: 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	0.667—26.67	KPa
partial pressure(pCO ₂)	5.0—700.0	mmHg
Oxygen partial pressure(pO ₂)	0—106.7	Kpa
	0—800.0	mmHg
Potassium ion(K ⁺)	0.50—10.00	mmol/L
Sodiumion(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 — 99 mmol/L
HCO ₃ ⁻	0 — 99 mmol/L
Be _s	-30 — 30 mmol/L
Be _{ef}	-30 — 30 mmol/L
SBC	0 — 99 mmol/L
%SO ₂ C	0-100.0%
Ca ⁺⁺ (7.4)	0.10 — 5.00 mmol/L
TCa	0.20 — 10.00 mmol/L
AG	0 — 99.0 mmol/L
RI	0.0-75.0
AaDO ₂	0-800 mmHg
O ₂ SAT	0-100.0%
tHb(c)	1.0—25.9g/dL

Input parameter:

Patient Temperature -5—50°C
 Hemoglobin 3.0—35.0g/dL
 FiO₂ 5—100%
 B.P.
 Patient ID 14 digits

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 patients results with
 operator ID, Patient ID, Date &
 Time and QC Results
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)×574(H)×344(D) mm³
CAL PAK 258(W)×180(H)×70(D) mm³
AUTOQC 103(W)×180(H)×70(D) mm³
Weight 18kg
Work Enviroment 15°C ~ 30°C
Storage Enviroment 5°C ~ 40°C
Power supply 100-240V ~ 50/60 Hz

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BG-800

Blood Gas Analyzer

GAS-TANK FREE

CE

pH

PCO₂

pO₂

Na⁺

K⁺

Ca⁺⁺

Cl⁻

Hct

Glu

Lac



Safe, Simple, Human-based



BG-800 Blood Gas

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.

Test Menu

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

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

Infrared human-detector

Flexible and simple calibrants cartridge

- Highest reagent volume 1220ml
- 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

Reliable and convenient measurement unit

- Capillary Sample volume only 50uL
- Whole blood volume only 95uL(120uL if with Glu and Lac)
- Multi-combination parameters
- Self-made long life maintenance free electrodes, modular Ion-Selective electrode, Plug-in type.
- Maximum 90s result from aspiration, less than 120s from sample to sample
- Long-lasting fluid system Preheats reagents and sample
- Sample Temp. Control: 37°C±0.2°C

User friendly Software

- In-Built Diagnostic Software allows Electrode Response, Parameters reported, Monitors Calibration & Reagent Usage, Correlation with other methods, selection of QC & Reference Limits.

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
- Built-in Thermal Printer shows QC data, Result Summary, Patient Results, Calibration Values.

Compact, flexible

- Size(mm) W*H*D: 400×574×344
- Easy move with rolling stand
- Nickel-metal hydride battery,3.0Ah
- 2 hours for stand by and 30 mins for continuous testing

