

BLOOD GAS ANALYZER



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VERSION.2024

Blood Gas And Electrolyte Analyzer

BGA-95-4



Features

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

Reliable and convenient measurement unit

- ◆ Capillary Sample volume only 50μL
- ◆ Whole blood volume only 95μL
- ◆ Multi-combination parameters
- ◆ Self-made long life maintenance free electrodes
- ◆ Maximum 90s result from aspiration, less than 120s from sample to sample
- ◆ Long-lasting fluid system
- ◆ Preheats reagents and sample



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



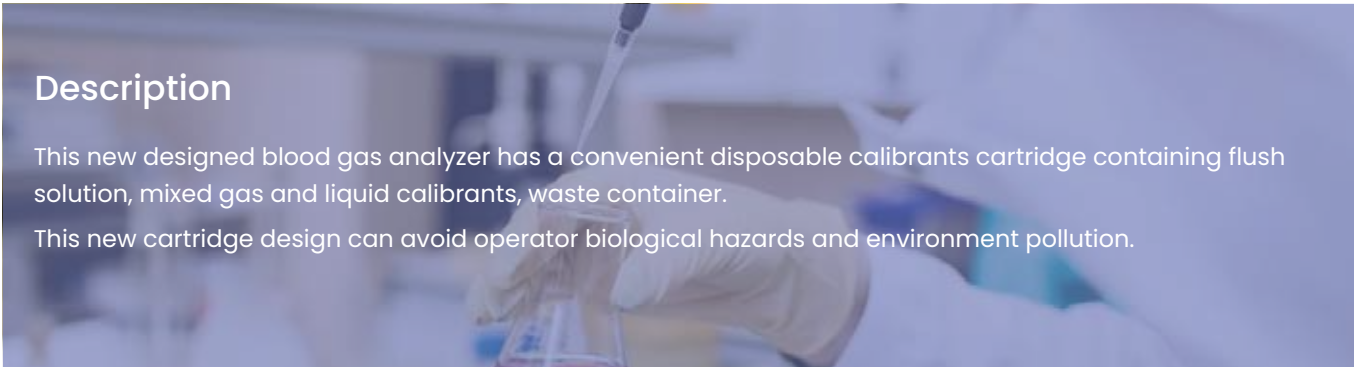
Auto QC cartridge

- ◆ Optional Auto QC 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

Description

This new designed blood gas analyzer has a convenient disposable calibrants cartridge containing flush solution, mixed gas and liquid calibrants, waste container.

This new cartridge design can avoid operator biological hazards and environment pollution.





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



Rich data management

RS-232 interface

LIS connection under HL7 protocol

Data backup with USB port



Test Menu

pH, pCO2 , pO2 , Hct



Fast data input

Easy sample and patient ID input

Convenient bar-code calibrants and Auto-QC cartridge replace

Easy bar-code consumables identification



Compact, flexible

Size(mm) W*H*D: 400×574×344

Easy move with rolling stand

Nickel-metal hydride battery,3.0Ah

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(PCO2)	5.0—200.0	mmHg
Oxygen partial pressure(PO2)	0—106.7	kPa
	0—800.0	mmHg
Hct	12.0—65.0	%
B.P.	500—800	mmHg



Derived(Calculated) Parameters	
pH(TC)	pH temperature corrected
pCO2 (TC)	pCO2 temperature corrected
pO2 (TC)	pO2 temperature corrected
TCO2	0-50mmol/L
HCO3	0-50mmol/L
Beb	-25.0~25mmol/L
Beecf	-25.0~25mmol/L
SBC	0-50mmol/L
SO2%	40~100.0%
AG	Anion gap
RI	0.0~70.0
AaDO2	0-700mmHg
O2SAT	Oxygen Saturation
tHb(c)	Hemoglobin(Calculated)
Sample	Whole blood, Serum, Plasma, Dialysate, CSF
Test items	pH, pCO2, pO2, Hct
Input parameter	Patient temperature
	Hemoglobin
	FiO
	B.P.
Interface	Serial Line RS-232
	TCP/IP interface
	USB port
	Integrated Bar-code reader
Analysis time	<90s
Sample volume	95μL Whole blood
	50μL Capillary blood
Calibration	Automatic, programmable1-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 printer70mm
Barcode reader	Up to 14 kinds barcode type
Instrument	400 (W) *574 (H) *344 (D) mm ³
CAL PAK	258 (W) *180 (H) *70 (D) mm ³
AUTOQC	103 (W) *180 (H) *70 (D) mm ³
Weight	30Kg
Work environment	15℃~30℃
Storage environment	5℃~40℃
Electricity	100-240V~50/60Hz

Blood Gas And Electrolyte Analyzer

BGA-95-8



Features

Intuitive touch screen

- ◆ User-friendly operation interface
- ◆ Parameter area provides analyzer status at a glance
- ◆ Online operation and self-diagnostic tutorials

High resolution 10.4" touch screen



Flexible and simple calibrants cartridge

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- ◆ 30 days available on board
- ◆ Stored at room temperature
- ◆ All-in-one design without extra consumables
- ◆ Cartridge expiration alarm and residue information



Auto QC cartridge

- ◆ Optional Auto QC 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 50μL
- ◆ Whole blood volume only 95μL
- ◆ Multi-combination parameters
- ◆ Self-made long life maintenance free electrodes
- ◆ Maximum 90s result from aspiration, less than 120s from sample to sample
- ◆ Long-lasting fluid system
- ◆ Preheats reagents and sample

Infrared human-detector

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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

Easy move with rolling stand

Nickel-metal hydride battery,3.0Ah

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(PCO2)	5.0—200.0	mmHg
Oxygen partial pressure(PO2)	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



Derived(Calculated) Parameters	
pH(TC)	pH temperature corrected
pCO2 (TC)	pCO2 temperature corrected
pO2 (TC)	pO2 temperature corrected
TCO2	0-50mmol/L
HCO3	0-50mmol/L
Beb	-25.0-25mmol/L
Beecf	-25.0-25mmol/L
SBC	0-50mmol/L
SO2%	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
AaDO2	0-700mmHg
O2SAT	Oxygen Saturation
tHb(c)	Hemoglobin(Calculated)
Sample	Whole blood, Serum, Plasma, Dialysate, CSF
Test items	pH , pCO2, pO2, K+ , Na+ , Cl- , Ca++ , Hct
Input parameter	Patient temperature
	Hemoglobin
	FiO
	B.P.
Interface	Serial Line RS-232
	TCP/IP interface
	USB port
	Integrated Bar-code reader
Analysis time	<90s
Sample volume	95µL Whole blood
	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 printer70mm
Barcode reader	Up to 14 kinds barcode type
Instrument(W*H*D)	400*574*344mm
CAL PAK(W*H*D)	258*180*70mm
AUTOQC(W*H*D)	103*180*70mm
Weight	30Kg
Work environment	15℃~30℃
Storage environment	5℃~40℃
Electricity	100-240V~50/60Hz

Blood Gas Analyzer

BGA-150-3



Features

Advanced technology

- Solid electrode technology
- Liquid calibration technology
- Wet measurement mode, with good repeatability and high accuracy

Cost-effective

- Catridge type reagent package

Easy operation

- 8"colorful graphical touch screen operation
- Each measurement channel can be used separately.
- A) 24 hours continuous working, make sure of detection in time.
- B) Sampling system washed automatically, avoid blocking.



Application

Blood gas analyzer includes blood gas measuring items (PH, PCO2, PO2), It is used to detect partial pressure of Carbon Dioxide (PCO2),and partial pressure of Oxygen (PO2) value.

Clinical Dept.

ICU, Examination Dept., Respiration Medicine Dept, Pediatrics ICU, Neurosurgery, Cardiology Dept, Anesthesia Dept., Surgical Dept., Emergency Dept., etc.

Specification

Model	BGA-150-3	
Measurement Items	PH,PCO2,PO2	
Calculation Parameters	PH(TC), PCO2(TC), Po (TC), HCO3, SBC, BE, Beecf, TCO2,SO2%,P50,A-Ado2,RI	
Sample	whole blood 150ul	
Test Method	automatic sampling	
Testing time	50s	
Printer	build-in thermal printer	
Display screen	8"TFT colorful LCD touch screen	
Storage	≥5000 test results	
Interfaces	RS232	
Power supply	100v~240V , 47Hz~63Hz	

Items	Reference Range	Linearity Range
PH	7.35- 7.45	3.000 - 12.0000
PO2	60 - 100 mmHg	0- 800.0 mmHg
PCO2	35- 45 mmHg	2.0-200.0 mmHg

Blood Gas and Electrolyte Analyzer

BGA-150-7



Features

Multi- function detection

Besides for the detection of blood gas, it also has option to test electrolyte items K⁺, Na⁺, Cl⁻,and Ca²⁺, allowing for multi - function detection.

Advanced technology

- Solid electrode technology
- Liquid calibration technology
- Wet measurement mode, with good repeatability and high accuracy

Cost-effective

Catridge type reagent package

Easy operation

- 8"colorful graphical touch screen operation
- Each measurement channel can be used separately.
- A) 24 hours continuous working, make sure of detection in time.
- B) Sampling system washed automatically, avoid blocking.



Application

Blood gas electrolyte analyzer includes blood gas measuring items (PH, PCO₂, PO₂), electrolyte measuring items (Na⁺, K⁺, Cl⁻, Ca²⁺). It is used to detect partial pressure of Carbon Dioxide (PCO₂),and partial pressure of Oxygen (PO₂) value.

Clinical Dept.

ICU, Examination Dept., Respiration Medicine Dept, Pediatrics ICU, Neurosurgery, Cardiology Dept, Anesthesia Dept., Surgical Dept., Emergency Dept., etc.

Specification

Model	BGA-150-7
Measurement Items	PH, PCO ₂ ,PO ₂ , Na ⁺ ,K ⁺ , Cl ⁻ ,Ca ²⁺
Calculation Parameters	PH(TC), PCO ₂ (TC), PO ₂ (TC),HCO ₃ , SBC, BE, Beecf,TCO ₂ , SO ₂ %,P50,A-Ado ₂ ,RI,Tca, nCa
Sample	whole blood 150ul
Test Method	automatic sampling
Testing time	50s
Printer	build-in thermal printer
Display screen	8"TFT colorful LCD touch screen
Storage	≥5000 test results
Interfaces	RS232
Power supply	100v~240V , 47Hz~63Hz

Items	Reference Range	Linearity Range
K ⁺	3.5- 5.5 mmol/L	1.60 - 7.50 mmol/L
Na ⁺	135- 145 mmol/L	100 - 180 mmol/L
Cl ⁻	96 - 108 mmol/L	85- 150 mmol/L
Ca ⁺⁺	1.1- 1.4 mmol/L	1.50 - 3.00 mmol/L
PH	7.35- 7.45	3.000 - 12.0000
PO ₂	60 - 100 mmHg	0- 800.0 mmHg
PCO ₂	35- 45 mmHg	2.0-200.0 mmHg