



BLOOD GAS ANALYZER LBGS-A1 SERIES

Blood Gas Analyzer is a compact unit offer wide range of test parameters for pH, pO₂, pCO₂, HCT, K⁺, Na⁺, Cl⁻, Ca²⁺, Glu, Lac. Blood gas analyzer is incorporated infrared human detector, reliable measurement unit with long-lasting fluid system, and self-made long-life maintenance free electrodes, flush solution pack to avoid biological pollution and without waste until used. Enabled with cartridge expiration alarm and residue information, measures the whole parameters in < 170 µl. Equipped with large 12.1-inch color LCD touch screen and with large data storage space.

Features

- Advanced compact blood gas analyzer
- More than 32 calculated parameters
- User friendly 12.1-inch color LCD touch screen
- Disposable dry lactate-glucose electrode valid up to 30 days
- Large data storage capacity
- Gas tank free blood gas analyzer
- Multi combination parameters
- Cartridge expiration alarm and residue information
- Automated sample aspiration, sample needles cleaning, support capillary, test tube and arterial blood syringe etc.
- Sample analysis time only in ~60 seconds (with Lac / Glu <90s)
- Blood volume for whole parameters <170 µl
- Inbuilt multi-level quality control rules, quality control data, quality control charts can be printed and exported
- Auto stop analysis of sample on failing on QC
- Remote maintenance, built in Wi-Fi, 4G and supports bi-direction
- Built in thermal printer and 2D barcode scanner, supports USB external printer
- Built in UPS and external large capacity UPS and trolley optional

Application

Blood gas analyzers are used to measure combinations of pH, blood gas (i.e., pCO₂ and pO₂), electrolytes, and metabolites parameters from whole blood samples across hospital, medicine, research institutes and labs etc.

Specifications

Model No.	LD-LBGS-A12
Sample type	Whole Blood, Arterial Blood, Venous Blood, Serum, Plasma, CSF
Sample volume	Blood volume for the whole parameters <170 µl
Analysis time	< 90 s

Test parameter	pO ₂ , pCO ₂ , pH, K, Na, Cl, Ca, and HCT
Working temperature	15 to 30 °C
Input parameter	Patient temperature, Hemoglobin, FiO ₂ , BP
Measured parameters	Hydrogen ion activity (pH): 6.000 to 9.000 pH; Carbon dioxide : 0-667 to 26.67 kPa; Partial pressure (pCO ₂) 8.0 to 200.0 mmHg; Oxygen partial pressure (PO ₂): 0 to 106.7 kPa, 0 to 800.0 mmHg; Potassium ion (K): 0.50 to 15.00 mmol/L; Sodium ion (Na): 20.0 to 200.0 mmol/L; Chloride ion (Cl): 20.0 to 200.0 mmol/L; Ionized calcium (Ca): 0.10 to 5.00 mmol/L; Hct: 12.0 to 65.0%; B.P.: 500 to 800 mmHg; Glucose: 1.1 to 66.7 mmol/L; Lactate: 0.4 to 30.0 mmol/L
Derived parameters	pH, pCO ₂ , pO ₂ , TCO ₂ , HCO ₃ , BE, BE _{ecf} , SBC, sO ₂ %, Ca ²⁺ , TCa ²⁺ , AG, RI, pO ₂ (A-a), pO ₂ (A), PO ₂ (A, TC), PO ₂ (A-a, T); pO, (a/A, T), pO, (a/A), SO ₂ %, tHb (c)
Calibration	Automatic, programmable 1-point and 2-point calibration
Data storage	Large data storage
Display	Yes, 12.1 inches color LCD touch- screen
Printer	Built-in thermal printer
Bar code reader	Built-in 2D barcode scanner
Results	Sample analysis speed ~60s (with Lac/Glu <90s)
Interface	Support bi-direction LIS, built-in Wi-Fi, 4G, and remote maintenance system. Built-in 2D barcode scanner and thermal printer, support external USB printer.
Backup	Built in UPS
Power supply	100 to 240 V, 50/60 Hz
Cartridge dimension (W×D×H)	280×80×180 mm
Dimension (W×D×H)	320×375×545 mm
Weight	22 Kg