



BLOOD GAS ANALYZER LD-LBGS-A1 SERIES

Blood Gas Analyzer LD-LBGS-A10

Blood Gas Analyzer LBGS-A10 is an advanced and compact blood gas analyzer offers test parameters for pO₂, pCO₂, pH, K, Na, Cl, Ca, and HCT. Features convenient, flexible and simple disposable calibrants cartridge with cartridge expiration alarm and residue information. Incorporated infrared human detector, reliable measurement unit with long-lasting fluid system, and self-made long life maintenance free electrodes, this analyzer has capillary sample volume of only 50 µl. Equipped with high resolution 10.4 inches touch screen, built-in thermal printer, fast and easy data input with convenient bar code calibrants and consumables identification, it has LIS connection, RS232 and USB interface. With flexible sample adaptor for both syringe and capillary sample, and all-in-one design without extra consumables, it is a gas tank free blood gas analyzer with nickel-metal hydride battery. Optional AutoQC cartridge with 3 levels QC design, this analyzer also provides multi-combination parameters with maximum 90s results from the aspiration, less than 120s from sample to sample.

Blood Gas Analyzer LD-LBGS-A11

Blood Gas Analyzer LBGS-A11 is an advanced and compact blood gas analyzer offers test parameters for pO₂, pCO₂, pH, and HCT. Features convenient, flexible and simple disposable calibrants cartridge with cartridge expiration alarm and residue information. Incorporated infrared human detector, reliable measurement unit with long-lasting fluid system, and self-made long life maintenance free electrodes, this analyzer has capillary sample volume of only 50 µl. Equipped with high resolution 10.4 inches touch screen, built-in thermal printer, fast and easy data input with convenient bar code calibrants and consumables identification, it has LIS connection, RS232 and USB interface. With flexible sample adaptor for both syringe and capillary sample, and all-in-one design without extra consumables, it is a gas tank free blood gas analyzer with nickel-metal hydride battery. Optional AutoQC cartridge with 3 levels QC design, this analyzer also provides multi-combination parameters with maximum 90s results from the aspiration, less than 120s from sample to sample.

Features

- ❑ Advanced and compact blood gas analyzer
- ❑ Convenient, flexible and simple disposable calibrants cartridge containing flush solution, mixed gas and liquid calibrants, and waste container
- ❑ Cartridge expiration alarm and residue information

- ❑ Infrared human detector with reliable measurement unit and long-lasting fluid system
- ❑ Self-made long life maintenance free electrodes
- ❑ Capillary and whole blood sample volume of only 50 µl and 95 µl respectively
- ❑ High resolution 10.4 inches touch screen, user-friendly operation interface
- ❑ Built-in thermal printer, fast and easy data input
- ❑ Convenient bar code calibrants and consumables identification
- ❑ LIS connection, RS232 and USB interface
- ❑ Flexible sample adaptor for both syringe and capillary sample
- ❑ All-in-one design without extra consumables
- ❑ Gas tank free blood gas analyzer with nickel-metal hydride battery
- ❑ Multi-combination parameters
- ❑ Maximum 90s results from the aspiration, less than 120s from sample to sample
- ❑ Optional AutoQC cartridge with 3 levels QC design
- ❑ Auto-stop analysis of sample on failing on QC
- ❑ Automatic, programmable 1-point and 2-point calibration
- ❑ High-efficient, stable and reliable results with minimal error

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	LD-LBGS-A10	LD-LBGS-A11
Sample	Whole blood, Serum, Plasma, Dialysate, CSF	
Sample volume	95 µl whole blood; 50 µl capillary blood; 120 µl Glu and Lac	
Analysis time	< 90s	

Working temperature	15 to 30°C	
Input parameter	Patient temperature, Hemoglobin, FiO ₂ , BP	
Test parameter	pO ₂ , pCO ₂ , pH, K, Na, Cl, Ca, and HCT	pO ₂ , pCO ₂ , pH, and HCT
Measured parameter	Hydrogen ion activity (pH): 6.000 to 9.000 pH; Carbon dioxide : 0.667 to 26.67 kPa; Partial pressure (pCO ₂): 5.0 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 10.00 mmol/L; Sodium ion (Na): 50.0 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	Hydrogen ion activity (pH): 6.000 to 9.000 pH; Carbon dioxide : 0.667 to 26.67 kPa; Partial pressure (pCO ₂): 5.0 to 200.0 mm Hg; Oxygen partial pressure (PO ₂): 0 to 106.7 kPa, 0 to 800.0 mm Hg; 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 (TC), pCO ₂ (TC), pO ₂ (TC), TCO ₂ , HCO ₃ , BEb, BEecf, SBC, sO ₂ %, Ca** (7.4), TCa, AG, RI, AaDO ₂ , O ₂ SAT, tHb(c)	
Calibration	Automatic, programmable 1-point and 2-point calibration	
Data storage	>10000 result	
Display	10.4 inches TFT touch screen	
Printer	Built-in thermal printer	
Bar code reader	>14 kinds barcode type	
Results	Maximum 90s results from the aspiration, less than 120s from sample to sample	
Interface	RS-232, TCP/IP interface, USB port, Integrated Bar-Code Reader	
Battery	Nickel-metal hydride battery, 3.0 Ah	

Blood Gas Analyzer LD-LBGS-A1 Series

Power supply	100 to 240 V, 50/60 Hz
Dimension (WxDxH)	400x344x574 mm
Cartridge dimension (WxDxH)	103x70x180 mm
Weight	18 kg