

MEDICA

EasyBloodGas™ medicacorp.com



EasyBloodGas
Analyzer
AGENT MODULE

MEDICA EasyBloodGas analyzer
for point-of-care measurement of pH, PCO₂,
PO₂, and temperature.
For use with EasyBloodGas
sampling module only.
Operating temperature:
15°C to 37°C (59°F to 99°F)

EasyBloodGas™

easy inside and out

With EasyBloodGas, Medica has redefined blood gas analyzer design

The sophistication of traditional blood gas analyzers has been packaged in a new compact format with a small footprint to save space. Gas tanks are eliminated. Gas and liquids have been mixed (tonometered) to create a convenient Reagent Module containing liquid calibrants. All components are combined into three simple modules, easily accessible by the user. Routine maintenance is limited to the replacement of electrodes and a single pump tube.

Medica's EasyBloodGas analyzer measures pH, PCO₂ and PO₂ and calculates eleven additional parameters. Patient parameters, including FIO₂ and Hb, can be entered using the digital keypad and integrated into patient results. Measured and calculated results are displayed and printed. Simple menus guide the user through analyzer operation. The modular design makes maintenance easy.

EasyBloodGas focuses on the laboratory's need to deliver sample results economically. Unique electrode design, combined with precise control of calibrator volumes, ensure economical operation and a low cost per sample.



...*Easy* to use


Blood gas analyzer operation has never been simpler

The Universal Sampler adapts to both syringe and capillary samples. The sample probe's self-wiping feature provides convenience, sample integrity and user safety.




Syringe Sampling




Capillary Sampling

Compact reagent module for convenience, economy and safety

Bulky gas tanks are replaced with liquid, tonometered calibrants, packaged in a convenient Reagent Module which also collects waste, protecting the user from biological hazards. The Reagent Module's solid-state memory enables EasyBloodGas to track date code and reagent usage. Operation without interruption is assured.

Disposable, maintenance-free electrodes

Advanced membrane technology and novel packaging bring unprecedented convenience to electrode replacement. Medica's integral membrane design means that membranes never need to be changed by the user, saving time and simplifying maintenance.

HOME MENU

- 1 ANALYZE SAMPLE
- 2 ANALYZE QC
- 3 CALIBRATE
- 4 DAILY CLEANER
- 5 SECOND MENU

SETUP MENU

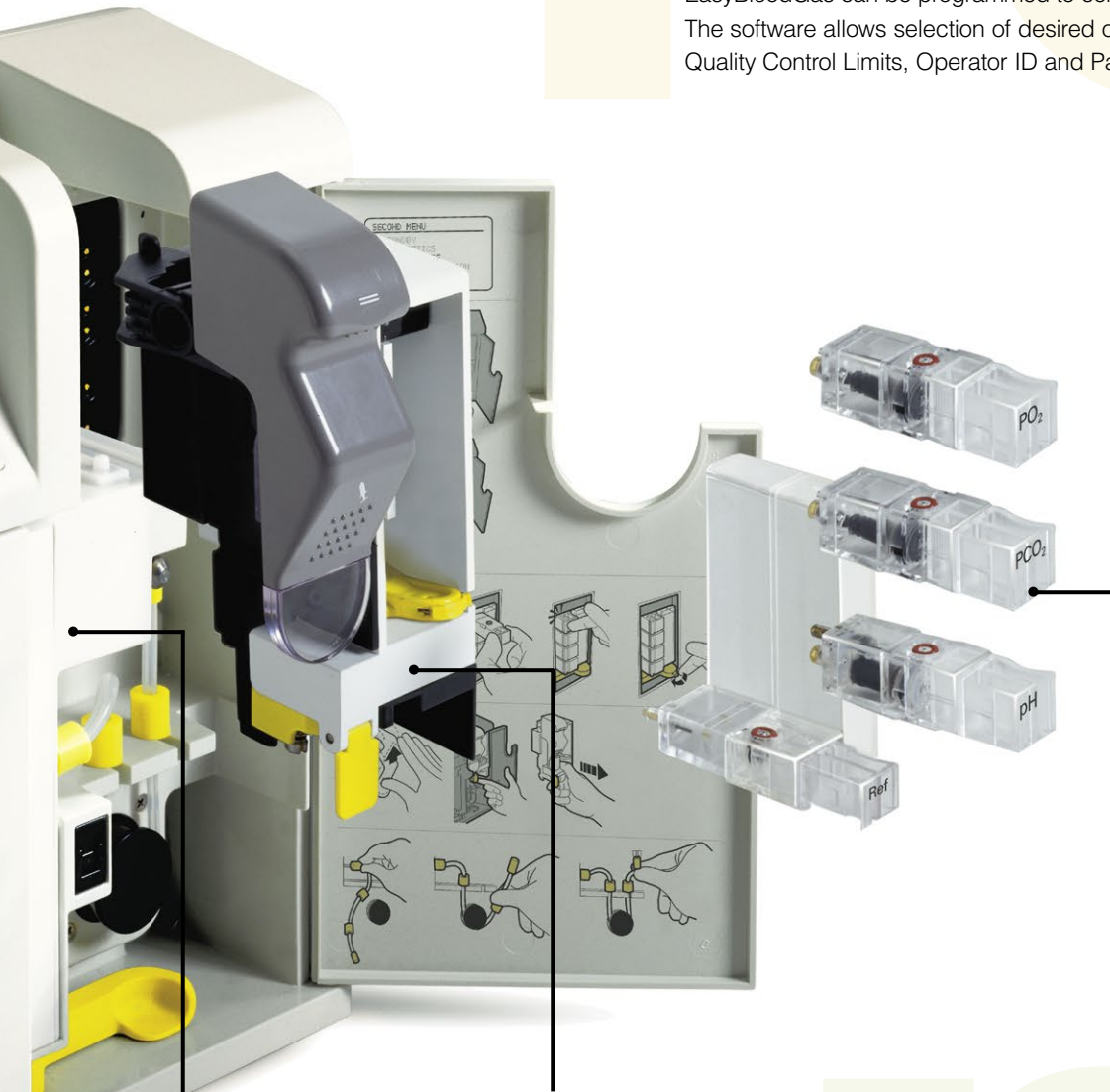
- 1 SECURITY CODE
- 2 USER OPTIONS
- 3 CONFIGURATION
- 4 REFERENCE LIMITS
- 5 PATIENT INFORMATION
- 6 DELETE DATA

DIAGNOSTICS

- 1 TEST COMPONENTS
- 2 TEST FLUIDICS
- 3 SENSOR STATUS
- 4 PRIME FLUIDS

Simple menu-prompted operation with a touch of the keypad

EasyBloodGas can be programmed to conform with established lab protocols. The software allows selection of desired options, including Reference Limits, Quality Control Limits, Operator ID and Patient Data.



Maintenance-free
Electrode design
permits fast, fail-safe
installation

Sensor Module contains
Universal Sampler with
self-wiping probe for
convenience and safety

Valve Module contains
long-lasting ceramic valve;
selects and preheats reagents

...*Easy* to maintain

EasyBloodGas can be maintained by anyone, anytime, anywhere

Innovative design simplifies maintenance, addressing the needs of the remote laboratory with limited access to technical service personnel. All service calls can be performed by fax or telephone, eliminating the need for on-site service. Diagnostic software displays component status, assuring quick troubleshooting. Modularity makes assembly and disassembly quick and easy.

Removal of the three plug-in modules—Reagent Module, Sensor Module and Valve Module—is accomplished without tools.

...*Easy* data management

Comprehensive quality control and data management

The EasyBloodGas quality control program calculates and stores complete statistics for the last 30 quality control results at each of three levels. A printed Levey-Jennings chart visually identifies trends. The data management program compares all patient results with ranges stored in memory and flags out-of-range results. Results are stored in memory for up to 64 patients.



Self-contained **Reagent Module**
eliminates gas tanks and collects
all waste

Ref

Specifications

CLIA Classification:	Moderate complexity	
Sample Type:	Whole blood	
Sample Size:	100 μ L Syringe 75 μ L Capillary	
Measured Parameters		
pH	6.900 – 7.900 pH units	
PCO ₂	8.0 – 150.0 mmHg	
PO ₂	10 – 700 mmHg	
Calculated Parameters		
pH (T) (pH temperature corrected)		
PCO ₂ (T) (PCO ₂ temperature corrected)		
PO ₂ (T) (PO ₂ temperature corrected)		
TCO ₂ (Total Carbon Dioxide)	0 – 50 mmol/L	
HCO ₃ ⁻ (Bicarbonate)	0 – 50 mmol/L	
BE _b (Base Excess in blood)	-25.0 – 25.0 mmol/L	
BE _{ecf} (Base Excess in extra cellular fluid)	-25.0 – 25.0 mmol/L	
SBC (Standard Bicarbonate)	0 – 50 mmol/L	
%SO _{2c} (Oxygen Saturation calculated at normal P ₅₀)	40.0 – 100.0%	
A-aDO ₂ (Alveolar arterial oxygen gradient)	0 – 700 mmHg	
RI (Respiratory Index)	0.0 – 70.0	
Input Parameters		
Patient Temperature	5 – 45°C	
Hemoglobin	30 – 30.0 g/dL	
FIO ₂	10 – 100%	
Patient ID	14 digits	
Sample Temperature Control:	37°C \pm 0.2°C	
Ambient Conditions:	15 – 30°C (59 – 86°F), 500 – 800 mmHg (max 15 PSI) 5 – 85% relative humidity, non-condensing atmospheric air environment (21% PO ₂)	
Analysis Time:	125 seconds	
Data Storage:	64 Patient results with Operator ID, Patient ID, Date and Time QC – up to 30 results for each Level (1, 2, 3)	
Calibration:	Automatic or On-Demand	
Input/Output:	Numeric keypad, graphic display, 27 column thermal printer, barcode reader port, RS-232 computer interface port	
Power:	100/115 ~ VAC, 50 – 60 Hz, 0.8 A or 220 ~ VAC, 50 – 60 Hz, 0.4A	
Size & Weight:	14.5" W x 12.5" H x 7" D (37 cm W x 32 cm H x 18 cm D) 16 lbs. (7.3 kg) with reagent module	

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