



**Low Cost
Per Test**

BGM 1312

pH/blood gas/electrolyte analyzer

Characteristics :

Convenience in work :

- Fully automated
- Deep Self-diagnostics
- Built -in thermal printer
- Not Volatile memory for 70 results and for 30 quality control results
- Sample from a capillary and syringe

It is intended for fast and accurate determination of pH, pCO₂, pO₂, K⁺, Na⁺, Ca⁺⁺, in heparinized whole blood samples. In addition to the measured parameters, this analyzer will also calculate 14 additional parameters.

Simplicity in service :

Built - in gasmixer :

- All reagents can be used till the expire (over one year).
- Electrodes do not require maintenance and are easily replaciable.
- Automatic monitoring of a condition of electrodes.
- Service is reduced to replacement of solutions.
- Minimum of starting-up and adjusting operations time.

Reliability:

- Minimal influence of the human factor on the device;
- Standby mode (provides trouble-free operation in case of long-term deenergizing).



Technical characteristics :

Measuring Range

<i>Parameter</i>	<i>Measuring Range</i>
pO ₂	0...800.0 mm Hg
pCO ₂	8.0...200.0 mm Hg
pH	6.400...8.000
K ⁺	0,20...40.00 mmol/l
Na ⁺	20.0...200.0 mmol/l
Ca ⁺⁺	0..20...5.00 mmol/l

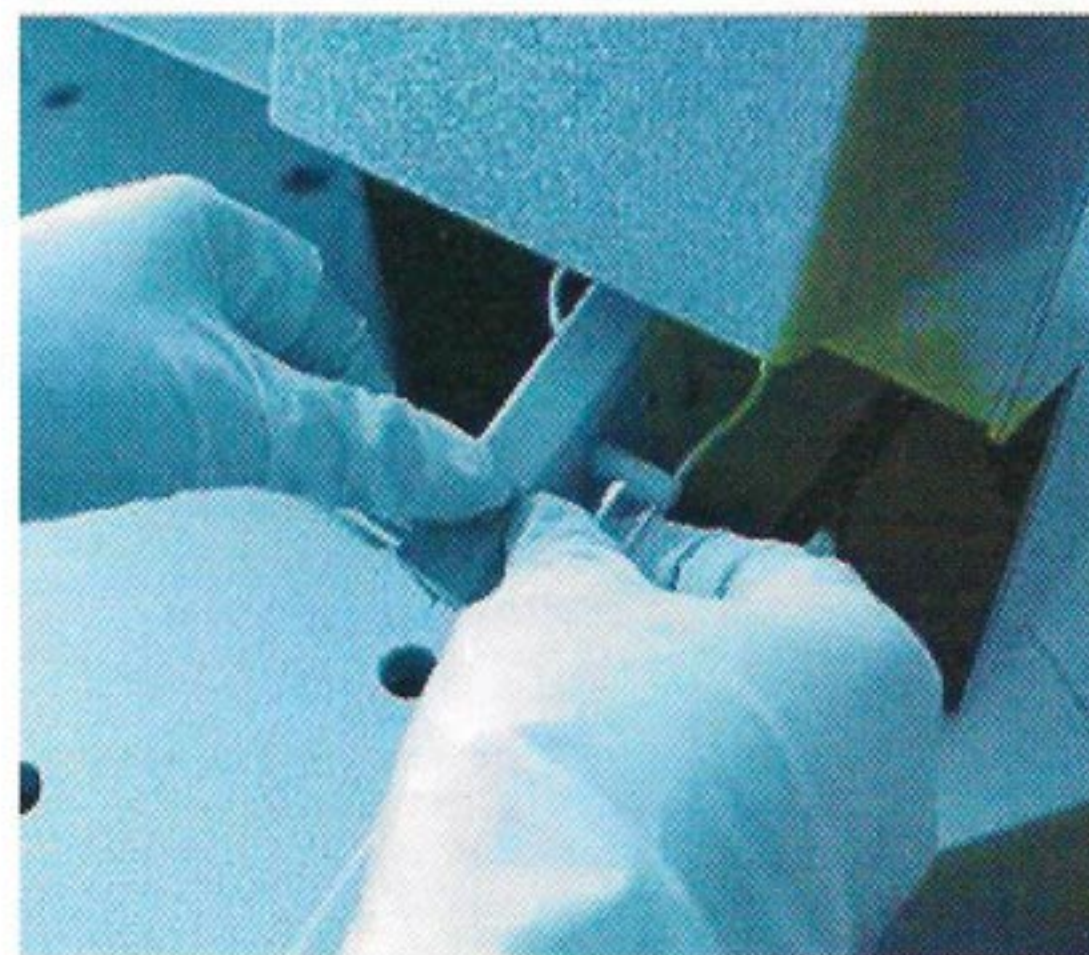
- Sample volume 120 µl (BGE), 90 µl (BG), 70 µl capillary
- Measuring time 60 sec. (Maximum)
- Dimensions and weight: 385 x 310 x 260 mm, 10 kg

Input parameters:

- Actual patient temperature values (T) (5.0...50.0 C0)
- Haemoglobin(HB) (0...400 g/l)
- FiO₂ (10% to 100%)

Calculated parameters:

- Actual bicarbonate (HCO₃).
- Total CO₂ (TCO₂).
- Base excess in blood (Beb).
- Base excess in cell's liquid (Beecf).
- Buffer bases (BB).
- Standard bicarbonate (SBC).
- Oxygen saturation (SAT).
- Oxygen contents in blood (O₂CT).
- Respirate index (RI).
- Arterial Alveolar- Oxygen gradient (AaDO₂).
- Calcium for pH=7,4 (nCa⁺⁺).
- pH with temperature correction (pHt).
- CO₂ with temperature correction (Co₂t).
- O₂ with temperature correction (O₂t).



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