Blood Gas Analyzer, pH pCO2 pO2 Hct, 95 µL Whole Blood, <90 s Result, 10.4-Inch Touch

Model **MSBGA-95-4SWISS** | Brand **Master Science**





The Blood Gas Analyzer measures pH, pCO2, pO2 and Hct from 95 µL of whole blood or 50 µL of capillary blood and reports results in under 90 seconds. From these it calculates temperature-corrected values, HCO3, TCO2, base excess, SBC, SO2%, anion gap, RI, AaDO2, O2SAT and calculated hemoglobin.

KEY HIGHLIGHTS

- Low Sample Volume
- Closed Waste System
- Fast Turnaround
- Automated QC Option

AT A GLANCE

6.000-9.000 PH RANGE	**5.0-200.0 mmHg (0.667-26.67 kPa)** PCO2 RANGE
0-800.0 mmHg (0-106.7 kPa) PO2 RANGE	**15-30°C / 5-40°C** OPERATING / STORAGE TEMPERATURE

Request a Quotation
Contact us for pricing, configuration options and delivery details.

support@themsci.com
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Overview

Calibration runs from a disposable cartridge that contains flush solution, mixed gas, liquid calibrants and the waste container, keeping operators away from biohazardous waste. The Blood Gas Analyzer has a 10.4-inch touch screen with self-diagnostic tutorials, an integrated barcode reader, a built-in 70 mm thermal printer and HL7 LIS connectivity.

Need electrolytes in the same run? See our Blood Gas and Electrolyte Analyzer, the extended version of the Blood Gas Analyzer.

Key Benefits

Low Sample Volume
95 µL of whole blood or 50 µL of capillary blood gives a full blood gas result.

Closed Waste System
Waste is held inside the disposable calibrant cartridge.

Fast Turnaround
Results in under 90 seconds and under 120 seconds between samples.

Automated QC Option
The optional Auto QC cartridge runs three levels daily and stops testing after a QC failure.

Technical Specifications

UNDEFINED

Brand	Master Science
Model Number	MSBGA-95-4SWISS
SKU	MSBGA-95-4SWISS
Measured Parameters	pH, pCO2, pO2, Hct
pH Range	**6.000-9.000**
pCO2 Range	**5.0-200.0 mmHg (0.667-26.67 kPa)**
pO2 Range	**0-800.0 mmHg (0-106.7 kPa)**
Hct Range	**12.0-65.0%**
Barometric Pressure	500-800 mmHg
Calculated Parameters	pH/pCO2/pO2 (TC), TCO2, HCO3, BEb, BEecf, SBC, SO2%, AG, RI, AaDO2, O2SAT, tHb(c)
Sample Types	Whole blood, serum, plasma, dialysate, CSF
Sample Volume	95 µL whole blood; 50 µL capillary blood
Analysis Time	< 90 s from aspiration; < 120 s sample to sample
Input Parameters	Patient temperature, hemoglobin, FiO2, barometric pressure
Calibration	Automatic, programmable 1-point and 2-point
Calibrant Cartridge	Test volumes 300/200/150/100/50; 30 days on board; room-temperature storage
Display	10.4-inch TFT touch screen
Data Storage	> 10,000 results
Printer	Built-in 70 mm thermal printer
Barcode Reader	Integrated, up to 14 barcode types
Interfaces	RS-232, TCP/IP, USB; LIS under HL7
Battery	Ni-MH, 3.0 Ah
Dimensions (W × H × D)	400 × 574 × 344 mm
Calibrant Pack Size (W × H × D)	258 × 180 × 70 mm
Auto QC Cartridge Size (W × H × D)	103 × 180 × 70 mm
Weight	30 kg
Operating / Storage Temperature	15-30°C / 5-40°C
Power Supply	100-240 V, 50/60 Hz

PROBLEMS THE BLOOD GAS ANALYZER SOLVES

Problems the Blood Gas Analyzer Solves	Critical-care teams face the issues below. The Blood Gas Analyzer solves each one.
Large sample draws from fragile patients	Only 95 µL whole blood or 50 µL capillary blood is needed.
Handling liquid biohazard waste	Waste stays sealed in the disposable cartridge.
Slow results delay ventilation decisions	Results arrive in under 90 seconds.
Electrode upkeep	Long-life electrodes need no maintenance.
Manual QC scheduling	The optional Auto QC cartridge runs QC automatically.

Applications

- **Arterial blood gas analysis in ICU and emergency rooms**
- **Acid-base balance assessment**
- **Oxygenation and ventilation monitoring**
- **Hematocrit checks during surgery**
- **Dialysate and CSF gas analysis**

Touch Screen Interface

- 10.4-inch high-resolution touch screen
- Status area shows analyzer condition at a glance
- Online operation and self-diagnostic tutorials
- Infrared operator detection

Calibrant Cartridge

- Flush solution, mixed gas, liquid calibrants and waste in one pack
- Test volume options: 300, 200, 150, 100 or 50
- 30 days on board at room temperature
- Expiration alarm and remaining-test display

Measurement Unit

- Long-life, maintenance-free electrodes
- Preheats reagents and sample
- Adaptor for syringe and capillary samples
- Probe wiper for sample integrity and safety

Data Management

- Barcode input for sample, patient and consumables
- RS-232, TCP/IP and USB backup
- LIS connection under HL7
- Ni-MH battery, 3.0 Ah

Standard Accessories Included

- Blood gas analyzer main unit
- Built-in thermal printer
- Integrated barcode reader

Optional Accessories

- Auto QC cartridge with three QC levels
- Calibrant cartridges in 300, 200, 150, 100 or 50 test sizes