



# BG 2100

## ISE Electrolyte & Blood Gas Analyzer

- Measured Parameters: PCO<sub>2</sub>, PO<sub>2</sub>, pH, K<sup>+</sup>, Na<sup>+</sup>, Cl<sup>-</sup>, Ca<sup>++</sup>
- 240 x 128 dots LCD Display
- Soft Keypad
- ≤200 µL Sample Volume – Whole Blood, Serum, Plasma
- 65 Samples / hour Throughput
- Built-in Thermal Printer



BG 2100 is an innovative ISE Electrolyte and Blood Gas Analyzer complementing our existing ISE NG. The analyzer measures K<sup>+</sup>, Na<sup>+</sup>, Cl<sup>-</sup>, Ca<sup>++</sup>, pH, PCO<sub>2</sub> and PO<sub>2</sub> in whole blood, serum and plasma. The analyzer has a compact design, is easy to operate, economical and is virtually maintenance free. The aspirate probe has a self-cleansing mechanism affording enhanced operator safety, low carry-over and cross-contamination.

## Gas Specifications

- Low Gas Composition  
CO<sub>2</sub> 5% O<sub>2</sub> 20% N<sub>2</sub> 75%
  - High Gas Composition  
CO<sub>2</sub> 10% N<sub>2</sub> 90%
- Tank(L) Pressure: 15MPa  
 Tank(S) Pressure: 10Mpa  
 Two Level Gas Regulator

## Test Ranges

Channel	Linearity	CV	SD
pH(cH)	6.800–8.000 (158.5 –10 mmol/L)	≤0.1%	20 * 10-3
PCO <sub>2</sub>	1.607–26.67 kPa (8.0–200.0 mmHg)	≤1.5%	≤4% or 0.13kPa
PO <sub>2</sub>	0–106.7 kPa (0–800mmHg)	≤1.0%	≤3% or 0.13kPa
K <sup>+</sup>	2.0–10 mmol/L	≤2.0%	≤0.4 mmol/L
Na <sup>+</sup>	50–200 mmol/L	≤1.0%	≤4 mmol/L
Cl <sup>-</sup>	50–200 mmol/L	≤2.0%	≤4 mmol/L
Ca <sup>++</sup>	0.5–3.0 mmol/L	≤3.0%	≤0.3 mmol/L

## Technical Specifications

- Equipment Interface: 240 × 128 dots LCD display with soft key pad
- Analysis principle: Direct “Flow Thru” electrodes
- Sample volume: ≤200 µl
- Sample type: Whole Blood, Serum, Plasma,
- Sample Application: Sample Cup, Capillary or Collection Tube
- Throughput: 65 samples/hour
- Calibration: Automatic two-point calibration with additional option for carrying out one-point and two-point calibration manually
- Pre adjusted Standby mode with automatic calibration steps
- Quality Control: 2 different levels of quality controls
- Printer: Built in Stationary Head Graphical Thermal Printer
- Storage Capacity: 1000 samples
- Interface port: RS 232
- Power: 110 ~ 230 V AC, 50/60 Hz
- Dimensions: 452(H) × 452(W) × 500(D) mm approx.
- Equipment weight: 15 Kg approx.
- Operating environment: 15° to 30°C, 20%~ 80% RH, 86 ~ 106 kPa

Parameter

Model BG 2100

Measured Parameters

PCO<sub>2</sub>, PO<sub>2</sub>, pH, K<sup>+</sup>, Na<sup>+</sup>, Cl<sup>-</sup>, Ca<sup>++</sup>

Calculated Parameters

pH(TC), PCO<sub>2</sub>(TC), PO<sub>2</sub>(TC), HCO<sub>3</sub><sup>-</sup>, SBC, AG, BE, BE<sub>ecf</sub>, TCO<sub>2</sub>, sO<sub>2</sub>%, A-aDO<sub>2</sub>, RI, Ca<sup>++</sup>(7.4), TCa<sup>++</sup>



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