

RAPIDLab 1200 Blood Gas Analyzer

Designed to Meet Your High Volume Needs

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siemens.com/rapidlab1200

System Description

High throughput blood gas analyzer

System Menu

pH	Cl
pCO ₂	Glucose
pO ₂	Lactate
Na ⁺	Neonatal Total Bilirubin
K ⁺	CO-oximetry
Ca ⁺⁺	

Parameter Specifications

Analyte	Units	Reporting Range
pH		6.000–8.000
pCO ₂	mmHg kPa	5.0–250.0 0.67–33.33
pO ₂	mmHg kPa	0.0–800.0 0.00–106.67
Na ⁺	mmol/L	70.0–200.0
K ⁺	mmol/L	0.50–20.00
Ca ⁺⁺	mmol/L mg/dL	0.25–5.00 1.0–20.0
Cl ⁻	mmol/L	40.0–160.0
Glucose	mmol/L mg/dL	0.6–55.4 10.0–998.0
Lactate	mmol/L mg/dL	0.00–30.00 0.0–270.2
Neonatal Total Bilirubin	μmol/L mg/dL	34.0–1026.0 2.0–60.0

CO-oximetry Parameter Specifications

Analyte	Units	Reporting Range
tHb	g/dL g/L mmol/L	2.0–25.0 20–250 1.2–15.5
sO ₂	%	15–100
FO ₂ Hb	%	0–100
FHHb	%	0–100
FCOHb	%	0–100
FMetHb	%	0–100

Calculated Parameters

HCO ₃ ⁻ act	ctO ₂ ([a- \bar{v}]/a)
HCO ₃ ⁻ std	VO ₂
ctCO ₂	ĐO ₂
BE(B)	Hct
BE(ecf)	BO ₂ (O ₂ CAP)
Ca ⁺⁺ (7.4)	ctO ₂ (Hb)
AnGap	pH(T)
p50	H ⁺ (T)
ctO ₂ (a)	pCO ₂ (T)
ctO ₂ (v)	pO ₂ (T)
ctO ₂ (\bar{v})	pO ₂ (A-a)(T)
O ₂ SAT(est)	pO ₂ (a/A)(T)
pO ₂ /FIO ₂	RI(T)
O ₂ CT(est)	Q _{sp} /Q _t (T)
ctO ₂ (a- \bar{v})	Q _{sp} /Q _t (T) (est)

Input Parameters

Patient Demographics	Sample Demographics
Patient ID	Location
Last Name	Physician ID
First Name	Draw Date
Sex	Draw Time
Date of Birth	Accession Number
	Operator ID
	Temperature
	tHb
	F _i O ₂
	Flow
	Respiratory Rate

Model Description

RAPIDLab® 1240 System:	pH, Blood Gas
RAPIDLab 1245 System:	pH, Blood Gas, CO-oximetry, nBili
RAPIDLab 1260 System:	pH, Blood Gas, Electrolytes, Metabolites
RAPIDLab 1265 System:	pH, Blood Gas, Electrolytes, Metabolites, CO-oximetry, nBili



Features and specifications are subject to manufacturer change.

RAPIDLab 1200 Blood Gas Analyzer Specifications

Sample Type

Heparinized whole blood, syringe, and capillary

Time to Results

Approximately 60 seconds

Reagent Cartridge Use Life

30 days

Calibration

One point every 30 minutes to a maximum of 60 minutes; full calibration every 8 hours

Quality Control

Automatic Quality Control (AQC) cartridge; ampuled QC; customizable QC schedule

System Dimensions

W/D/H: 53.5 cm (21.0 in.)/58.5 cm (23.0 in.)/61.0 cm (24.0 in.)

Weight: 29.5 kg (65.0 lb)

External Interfaces

USB (three ports), RS232 port, bar-code scanner port, RJ10/100 Base T Ethernet port

System Security

McAfee Embedded Control, firewall, verified system connection, encrypted patient data transfer via USB

Communication

RAPIDComm® Data Management System
LIS/HIS
Dual-port transmission

Power Requirements

Rating: 150 VA
Voltage: 100–240 VAC
Freq: 50/60 Hz

Environmental Requirements

Temp: 15–32°C
Humidity: 5–90% noncondensing
Barometric Pressure: 523–800 mmHg (69.7–106.7 kPa)

Safety

TUV-listed to IEC/EN 61010, 61010-2-101, 61010-2-081, CB Test Certificate, certified to CSA and UL

EMC

EN 60601-1-2:2001 Group 1 Equipment, Class B for non-life supporting equipment
FCC 47 CFR Part 15 Class B emissions requirements



RAPIDLab 1200 system screen



Measurement chamber

Sample Size: Capillary (Minimum)

Mode	RAPIDLab 1240 system	RAPIDLab 1245 system	RAPIDLab 1260 system	RAPIDLab 1265 system
pH Only	35 µL	35 µL	95 µL	95 µL
CO-oximetry Only	–	100 µL	–	100 µL
Full Menu	90 µL	140 µL	125 µL	175 µL

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