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Can we perform critical care testing simply and with confidence?



Get trusted results from an easy-to-use blood gas system.

RAPIDLab 248/348 Blood Gas Analyzers

Answers for life.

SIEMENS



Our RAPIDLab 248/348 blood gas analyzers provide the right balance of operator efficiency and value for a variety of critical care testing sites.

RAPIDLab 248/348 analyzers from Siemens Healthcare Diagnostics are the perfect choice for economical blood gas testing in many critical care environments. Fully automated operation ensures fast, accurate results with a minimum of operator involvement, allowing important treatment decisions to be made at an early stage.

Simple, Efficient Operation

- Compact design saves space
- Small sample size (50µL to 95µL) ideal for many patient types
- Syringe and capillary modes adjust for sample volume automatically
- Comprehensive QC materials help verify system performance

Reliable, Low-Maintenance Technology

- Minimal maintenance requirements maximize analyzer uptime
- Proven Ready Sensor® technology ensures long use-life

Convenient Data Management and System Connectivity

- Easy on-board management of QC, patient and system information
- Connectivity with RAPIDComm® Data Management System facilitates control and monitoring from a remote workstation

For more information, contact your Siemens Healthcare Diagnostics Representative today.



RAPIDLab 348 System Test Menu

- Blood Gas (pH, pCO₂, pO₂)
- Electrolytes (Na⁺, K⁺, Ca²⁺/Cl)
- Hematocrit

RAPIDLab 248 System Test Menu

- Blood Gas (pH, pCO₂, pO₂)



Perform critical care testing simply and economically

Sample Volume

RAPIDLab 348 Analyzer	Syringe	95 µL
	Capillary	70 µL
	Microsample	50 µL
RAPIDLab 248 Analyzer	Syringe	85 µL
	Capillary	60 µL

Sample Type

Whole Blood
Plasma/Serum (for electrolytes only)
Dialysate Fluid (RAPIDLab 348 only)

Analysis Time

RAPIDLab 348 Analyzer	50 seconds
RAPIDLab 248 Analyzer	45 seconds

Calibration

Automatic or on-demand

RAPIDLab 348 Analyze

Analyte	Units	Range of Operation
pH		6.001 – 8.000
pCO ₂	mmHg	5.0 – 250.0
pO ₂	mmHg	0.0 – 749.0
Na ⁺	mmol/L	80 – 200
K ⁺	mmol/L	0.50 – 9.99
Ca ⁺⁺	mmol/L	0.20 – 5.00
Cl ⁻	mmol/L	40 – 160
Hct	%	12 – 75

RAPIDLab 248 Analyzer

Analyte	Units	Range of Operation
pH		6.001 – 8.000
pCO ₂	mmHg	5.0 – 250.0
pO ₂	mmHg	0.0 – 749.0

Input Parameters

Temperature	10.0°C – 43.9°C
Hemoglobin	2.0 – 25.0 g/dL
FIO ₂	15.0% – 100.0%
Patient/Operator ID	12 digits each
Sample Source	Arterial, mixed venous, venous
Sample Location	Radial, brachial, femoral, arterial line, cord

Calculated Parameters

Parameter	Units	Reporting Range
O ₂ SAT	%	0.0 – 100.0
O ₂ CT	mL/dL	0.0 – 40.0
HCO ₃ ⁻ act	mmol/L	0.0 – 60.0
HCO ₃ ⁻ std	mmol/L	0.0 – 60.0
ctCO ₂	mmol/L	0.0 – 60.0
BE _b	mmol/L	-29.9 – 29.9
BE _{ecf}	mmol/L	-29.9 – 29.9
pO ₂ (A-a)	mmHg	0.0 – 749.0
pO ₂ (a/A)	mmHg	0.00 – 1.00
pO ₂ /FIO ₂	mmHg	0.00 – 5.00
Ca ⁺⁺ (7.4)	mmol/L	0.20 – 5.00
Anion gap	mmol/L	-60.0 – 60.0
pH(T)	pH	6.001 – 8.000
H ⁺ (T)	nmol/L	10.0 – 997.0
pCO ₂ (T)	mmHg	5.0 – 250.0
pO ₂ (T)	mmHg	0.0 – 749.0
pO ₂ (A-a) (T)	mmHg	0.0 – 749.0
pO ₂ (a/A) (T)	mmHg	0.00 – 1.00
ctHb (est)	g/dL	2.0 – 25.0

System Size and Weight

RAPIDLab 348	W: 38.6 cm (15.2 in.) D: 38.0 cm (15 in.) H: 37.1 cm (14.6 in.)
RAPIDLab 248	W: 38.6 cm (15.2 in.) D: 32.1 cm (12.7 in.) H: 37.1 cm (14.6 in.)
Weight:	
RAPIDLab 348	13.1 kg. (29 lbs.)
RAPIDLab 248	9.1 kg. (20 lbs.)

Power Requirements

Voltage:	100V (85-110V), 120V (102-132V), 220V (187-242V), 240V (204-264V)
Power:	80 VA
Frequency:	50/60 Hz

Environmental

Temperature:	15°C to 32°C
Humidity:	5% – 85%, non-condensing
Barometric Pressure:	400 – 825 mmHg

External Interfaces

RS-232 Ports

Data Management Protocols

LIS 1, LIS 2, LIS 3

Approvals

UL, C-UL, IEC-601, MHW (Japan), CSA Complies with the EMC directive (CE)

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