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, pCO_2, pO_2)
- Electrolytes (Na^+, K^+, Ca^{++}/Cl^-)
- Hematocrit

RAPIDLab 248 System Test Menu

- Blood Gas (pH, pCO_2, pO_2)

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 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
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/F_IO_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)

Siemens Healthcare Diagnostics, the leading clinical diagnostics company, is committed to providing clinicians with the vital information they need for the accurate diagnosis, treatment and monitoring of patients. Our comprehensive portfolio of performance-driven systems, unmatched menu offering and IT solutions, in conjunction with highly responsive service, is designed to streamline workflow, enhance operational efficiency and support improved patient care.

Product availability may vary from country to country and is subject to varying regulatory requirements. Please contact your local representative for availability.

Siemens Global Headquarters

Siemens AG
Wittelsbacherplatz 2
80333 Muenchen
Germany

Global Siemens Healthcare Headquarters

Siemens AG
Healthcare Sector
Henkestrasse 127
91052 Erlangen
Germany
Telephone: +49 9131 84 - 0
www.siemens.com/healthcare

Global Division

Siemens Healthcare Diagnostics Inc.
1717 Deerfield Road
Deerfield, IL 60015-0778
USA
www.siemens.com/diagnostics

www.siemens.com/diagnostics

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