

SIEMENS



[www.siemens.com/diagnostics](http://www.siemens.com/diagnostics)

Advance your critical care testing with trusted technology that's easy to use.

RAPIDPoint 500 Blood Gas Analyzers

Answers for life.

# RAPIDPoint 500 analyzers meet your critical care testing needs using proven technology and features designed to work in point-of-care settings.

## The demand for point-of-care testing is increasing. Do you have a solution that works for everyone?

Your referring physicians and their patients want answers fast, at the point of care. Answers that lead to improved clinical decision-making and expedited treatment strategies. But your point-of-care testing needs don't end there. Your core lab team has concerns about accuracy, quality control (QC), and compliance of decentralized instruments. And the wide variety of clinicians who use the analyzers demand that they be available, easy to operate, and maintenance free. RAPIDPoint® 500 Blood Gas Analyzers are designed to satisfy the unique demands of testing at the point of care so that everybody wins.

### An Advantage for Time-Pressured Testing

Siemens RAPIDPoint 500 Blood Gas Analyzers deliver accurate, laboratory-quality test results for a comprehensive menu of critical care parameters in approximately 60 seconds: pH and blood gases, electrolytes, glucose, lactate, plus fully integrated CO-oximetry, including neonatal Bilirubin (nBili) and Total Hemoglobin (tHb), all from a single, whole blood sample. The system also supports pH testing of pleural fluid\* samples.

### Reliable Technology You Can Trust

To give you more confidence in your results, the RAPIDPoint 500 blood gas system uses Siemens technology, which has been performance-proven for more than a decade.

- **Maximize uptime** with 28-day measurement cartridge containing a full complement of critical care analytes without gas tanks or reagent bottles
- **Preserve sample integrity and improve safety** with a hands-free sample port, automated sample aspiration, self cleaning probe, and clot detection features
- **Minimize risk** with cartridge-based system design, integrated planar sensors, and patented slide cell technology for CO-oximetry
- **Ensure accuracy and simplify compliance** with automatic QC and calibration systems

### Fast and Flexible Point-of-Care Design

Count on RAPIDPoint 500 systems to be ready to use without slowing down hospital staff with complex operating procedures and maintenance tasks. RAPIDPoint 500 systems enable users to perform faster testing with greater accuracy.

- Increase efficiency with **pre-set custom panels for the most frequently used tests**; just scan the ID, insert sample, and touch start
- Optimize viewing and reduce glare with an **adjustable touch screen**
- Ensure error-free data capture with an **integrated bar code reader** for fast, single-handed scans of patient or operator ID
- Improve ease of use with a **single sample port** that accepts syringe or capillary samples without adapters
- Reduce downtime with a **28-day measurement and AQC cartridges**
- Minimize delays for STAT patient samples by interrupting **automatic QC and calibration functions**
- Simplify training and day-to-day operation with **built-in instructional videos**
- Quickly and easily back up results and event logs using **USB ports**
- Create hard copies of patient results in just 60 seconds using **integrated printer**

\*Available for sale only in select countries.



### RAPIDPoint 500 Test Menu

- Blood Gas: pH<sup>†</sup>, pO<sub>2</sub>, pCO<sub>2</sub>
- Electrolytes: Na<sup>+</sup> K<sup>+</sup>, Ca<sup>++</sup>, Cl<sup>-</sup>
- Metabolites: Glucose, Lactate
- CO-oximetry: nBili, tHb, SO<sub>2</sub>, O<sub>2</sub>Hb, HHb, COHb, MetHb

† pH results also available using pleural fluid\* sample

## Advance your critical care testing with easy-to-use, trusted technology.

### Maximize Efficiency with the RAPIDComm Data Management System

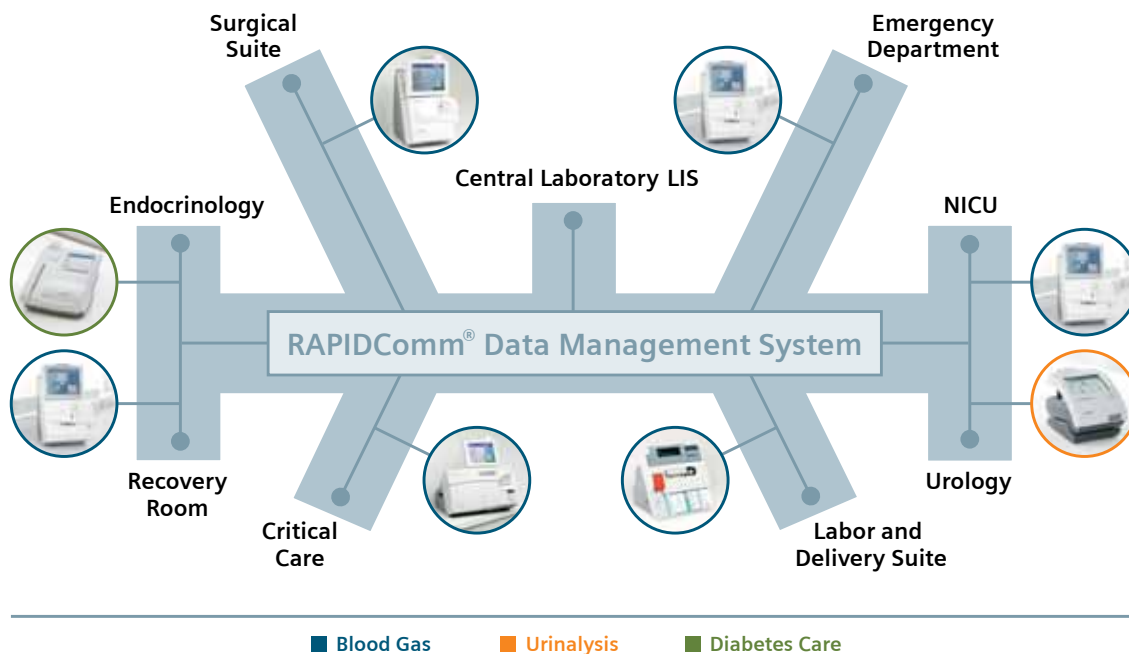
Take your efficiency to the next level by seamlessly integrating your RAPIDPoint 500 analyzers with the RAPIDComm<sup>®</sup> Data Management System. Centralize management of Siemens analyzers, and up to 5,000 instrument operators, to standardize testing procedures, facilitate compliance, and improve risk management.

- **Remotely configure, monitor, and control** networked POC analyzers from the comfort of your own office
- Centralize operator management to **limit instrument access** to trained and authorized users
- **Ensure regulatory compliance** with monitoring of event logs and audit trail reports

### The Technology You Trust for the Tests You Need

Every RAPIDPoint 500 feature has been designed to save your clinicians valuable time on the way to making the critical decisions that directly impact patient lives. You can count on the instrument to be available when it's needed and to perform consistently—with laboratory-quality results—when in use. And Siemens is committed to expanding the RAPIDPoint 500 critical care test menu as your test requirements evolve. Experience the benefits of a critical care testing solution based on the proven technology that only Siemens can deliver.

Learn more at [www.siemens.com/diagnostics](http://www.siemens.com/diagnostics)



Siemens Healthcare Diagnostics, a global leader in clinical diagnostics, provides healthcare professionals in hospital, reference, and physician office laboratories and point-of-care settings with the vital information required to accurately diagnose, treat, and monitor patients. Our innovative portfolio of performance-driven solutions and personalized customer care combine to streamline workflow, enhance operational efficiency, and support improved patient outcomes.

RAPIDComm, RAPIDPoint, and all associated marks are trademarks of Siemens Healthcare Diagnostics Inc. All other trademarks and brands are the property of their respective owners.

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

Order No. A91DX-110692-GC4-4A00  
05-2012 | All rights reserved  
© 2012 Siemens Healthcare Diagnostics Inc.

**Global Siemens Headquarters**

Siemens AG  
Wittelsbacherplatz 2  
80333 Muenchen  
Germany

**Global Siemens Healthcare  
Headquarters**

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

**Global Division**

Siemens Healthcare Diagnostics Inc.  
511 Benedict Avenue  
Tarrytown, NY 10591-5005  
USA  
[www.siemens.com/diagnostics](http://www.siemens.com/diagnostics)

# Easy-to-use, proven technology to advance your critical care testing

## RAPIDPoint® 500 Blood Gas Analyzer Product Specifications

[www.siemens.com/diagnostics](http://www.siemens.com/diagnostics)

### System Description

Point-of-care blood gas analyzer

### System Menu

pH	Na+	Glucose
pCO <sub>2</sub>	K+	CO-oximetry
pO <sub>2</sub>	Ca <sup>++</sup>	Lactate
	Cl <sup>-</sup>	

### Parameter Specifications

Analyte	Units	Reporting Range
pH	-	6.500–7.800
Pleural pH*	-	7.000–7.500
pCO <sub>2</sub>	mmHg kPa	10.0–700.0 1.33–93.32
Na <sup>+</sup>	mmol/L	100.0–200.0
K <sup>+</sup>	mmol/L	0.50–15.00
Ca <sup>++</sup>	mmol/L	0.20–5.00
Cl <sup>-</sup>	mmol/L	65.0–140.0
Glucose	mmol/L mg/dL	1.1–41.6 20.0–750.0
Lactate	mmol/L mg/dL	0.18–30.00 1.6–270.3

### CO-oximetry Parameters

	Units	Reporting Range
tHb	g/dL	2.0–25.0
	g/L	20–250
	mmol/L	1.2–15.5
nBili	mg/dL	2.0–30.0
	µmol/L	34–513
sO <sub>2</sub>	%	0–100
FO <sub>2</sub> Hb	%	0–100
FHHb	%	0–100
FCO <sub>2</sub> Hb	%	0–100
FMetHb	%	0–100

### Calculated Parameters

pH(T)	BO <sub>2</sub>
pCO <sub>2</sub> (T)	pO <sub>2</sub> (A-a)(T)
pO <sub>2</sub> (T)	pO <sub>2</sub> (a/A)(T)
HCO <sub>3</sub> <sup>-</sup> act	p50
HCO <sub>3</sub> <sup>-</sup> scd	Qsp/Qt(T)
BE(B)	Qsp/Qt(est)(T)
BE(ecf)	RI(T)
ctCO <sub>2</sub>	pO <sub>2</sub> /FIO <sub>2</sub>
Ca <sup>++</sup> (7.4)	ctO <sub>2</sub> (a-v)
AnGap	ctO <sub>2</sub> ([a-v]/a)
sO <sub>2</sub>	VO <sub>2</sub>
O <sub>2</sub> SAT(est)	DO <sub>2</sub>
Hct	ctO <sub>2</sub> ( )

### Input Parameters

#### Patient Demographics

Patient ID	Sex
Last Name	Date of Birth
First Name	

#### Sample Demographics

Location	Temperature
Physician ID	tHb
Draw Date	FIO <sub>2</sub>
Draw Time	Flow
Accession No.	Resp Rate
Operator ID	pATM



## Sample Types

Heparinized whole blood, syringe and capillary, pleural fluid,\* dialysate\*

## Sample Size (All Parameters)

Syringe: 200 µL Whole blood, pleural fluid, dialysate

Capillary: 100 µL Whole blood

## Time to Results

Approximately 60 seconds

## Measurement Cartridge

Use Life: 28 days or maximum number of tests

Size: 250/400/750 tests

## Calibration

1-point calibration every 30 minutes; 2-point calibration every 2 hours;

Full calibration every 8 hours

## Quality Control

Automatic Quality Control (AQC) cartridge—3 levels of independent quality control solutions; customizable QC schedule; ampule QC

## System Dimensions

Width: 30.0 cm (11.5 in)

Depth: 42.0 cm (16.0 in)

Height: 55.0 cm (21.5 in, display at highest position)

Weight: 16.55 kg (36.5 lbs, excluding cartridges)

Touchscreen: 21.1 x 15.8 cm (8.3 x 6.2 in)

## Integrated Bar Code Scanner

1D Bar code Symbologies: Code 128, Codabar, Code 39, Character/Digit, Interleaved 2 of 5

2D Bar code for ampule QC data entry only

## External Interfaces

Universal Serial Bus (USB): 3 Ports; RS232 port; 10BaseT Ethernet; Bar code scanner

## Power Requirements

Rating: 150 VA

Voltage: 100 to 240 VAC

Freq: 48 to 62 Hz

## Environmental Requirements

Temp: 15°C to 30°C

Humidity: 5% to 85% non-condensing

Barometric Pressure: 523 to 800 mmHg

## Safety

TUV listed, CSA, EN/IEC 61010-1, JIS

## EMC

EN 60601-1-1:2007, IEC60601-1-2 Ed.2.1

## Operating System

Windows® XP embedded

Data Capacity

Patient Samples: 250

QC Samples: 250

Operators: 5,000

## Communication

LIS

RAPIDComm® Data Management System

Siemens Healthcare Diagnostics, a global leader in clinical diagnostics, provides healthcare professionals in hospital, reference, and physician office laboratories and point-of-care settings with the vital information required to accurately diagnose, treat, and monitor patients. Our innovative portfolio of performance-driven solutions and personalized customer care combine to streamline workflow, enhance operational efficiency, and support improved patient outcomes.

RAPIDComm, RAPIDPoint, and all associated marks are trademarks of Siemens Healthcare Diagnostics Inc. All other trademarks and brands are the property of their respective owners.

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

### Global Siemens Headquarters

Siemens AG  
Wittelsbacherplatz 2  
80333 Muenchen  
Germany

### Global Siemens Healthcare Headquarters

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

### Global Division

Siemens Healthcare Diagnostics Inc.  
511 Benedict Avenue  
Tarrytown, NY 10591-5005  
USA  
[www.siemens.com/diagnostics](http://www.siemens.com/diagnostics)

Order No. A91DX-110933-GC3-4A00  
05-2012 | All rights reserved  
© 2012 Siemens Healthcare Diagnostics Inc.

Features and specifications are subject to manufacturer change.

\*Available for sale only in select countries.

[www.siemens.com/diagnostics](http://www.siemens.com/diagnostics)