

RAPIDPoint[®] 500e[®] Blood Gas System Product Specifications

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With Integri-sense™ Technology

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System	Description	n
System	Description	и

Point-of-care blood gas analyzer

System Menu

рН	K+	Lactate
pCO ₂	Ca ⁺⁺	tHb
pO_2	Cl-	CO-oximetry
Na ⁺	Glucose	nRili

Parameter Specifications

Analyte	Units	Reporting Range
рН	OF THE REAL PROPERTY.	6.500-7.800
Pleural pH		7.000-7.500
pO ₂	mmHg kPa	10.0-700.0 1.33-93.32
pCO ₂	mmHg kPa	5.0-200.0 0.66-26.66
Na+	mmol/L	100.0-200.0
K+	mmol/L	0.50-15.00
Ca ⁺⁺	mmol/L mg/dL	0.20-5.00 0.8-20.0
CI-	mmol/L	65.0-140.0
Glucose	mmol/L mg/dL	1.1-41.6 20-750
Lactate	mmol/L mg/dL	0.18-30.00 1.6-270.3

CO-oximetry Parameters

Analyte	Units	Reporting Range
tHb	g/dL	2.0-25.0
	g/L mmol/L	20-250 1.2-15.5
nBili	mg/dL µmol/L	2.0-30.0 34-513
sO,	%	15.0-100.0
FO, Hb	%	0.0-100.0
FHHb	%	0.0-100.0
FCOHb	%	0.0-100.0
FMetHb	%	0.0-100.0

Calculated Parameters

pH(T)	BO ₂
pCO ₂ (T)	pO ₂ (A-a)(T)
$pO_2(T)$	pO ₂ (a/A)(T)
HCO ₃ act	p50
HCO ₃ std	Ċsp/Ċt(T)
BE(B)	ġsp/ġt(T)(est)
BE(ecf)	RI(T)
ctCO ₂	pO ₂ /F ₁ O ₂
Ca++(7.4)	$ctO_2(a), ctO_2(\nabla)$
AnGap	ctO ₂ ([a-v]/a)
Hct	$ctO_2(v), ctO_2(a-\nabla)$
sO ₂	ctO ₂ (Hb)
O ₂ SAT(est)	VO ₂
mOsm	ÒO₂

Input Parameters

Patient Demo	graphics	
Patient ID	Sex	
Last Name	Date of Birth	
First Namo		-

Sample Demographics

Location	Temperature	
Physician ID	tHb	
Draw Date	F ₁ O ₂	
Draw Time	Flow	
Accession No.	Resp Rate	
Operator ID	pATM	
Up to 10 custom de	emographic fields available	
	omograpine netas availabl	

Ventilator Settings (optional)

ventilator Settings (optional)	
Ventilator Flow	
Respiratory Rate	
Continuous Positive Airway Pressure	
Positive End Expiratory Pressure	
Peak Inspiratory Pressure	
Tidal Volume	
Allen Test	

Integri-sense™ technology is the guardian of patient results. It is a comprehensive series of analyzer functional checks and flagging mechanisms designed to deliver accurate test results.

*Not available for sale in the U.S. Product availability may vary from country to country and is subject to varying regulatory requirements. Please contact your local representative for availability.



RAPIDPoint 500e" Blood Gas System **Product Specifications**

Sample Types

Whole blood (arterial, venous, mixed venous and capillary); pleural fluid; dialysate[†]

Measurement Volume

Sample volume: 100 µL

Time to Result

Approximately 60 seconds

Cycle time: approximately 120 seconds

Measurement Cartridge

Use life: 28 days, or maximum number of tests

Size: 100/250/400/750 tests

Cartridge initialization time: approximately 24 minutes

1-point calibration every 30 minutes; 2-point calibration every 2 hours; full calibration every 8 hours

Quality Control

Automatic Quality Control (AQC) cartridge: three 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 lb, excluding cartridges)

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

Integrated and External Barcode Scanner*

For patient ID, operator ID, and ampuled QC

1D barcode symbologies: Code 128, Codabar, Code 39, Interleaved 2 of 5

2D barcode symbologies: PDF47, MicroPDF417, Datamatrix,

QR Code, Micro QR Code, Aztec and MaxiCode

External Interfaces

USB (3 ports); RS232; 10BASE-T Ethernet; barcode scanner

Power Requirements

Rating: 150 VA Voltage: 100-240 VAC Frequency: 48-62 Hz

Environmental Requirements

Temp: 15-30°C

Humidity: 5-85% noncondensing

Barometric Pressure: 523-800 mmHg

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

EMC

61326-2-6: Class B

Operating System

MICROSOFT WINDOWS 10 IoT Enterprise (1809)

Data Security

Patient data encryption

MCAFEE enabled anti-malware

Endpoint configuration

Firewall

Two-step operator authentification

No hard-coded password

USB on/off functionality

Data Capacity

Patient samples: 250

QC samples: 250

Operators: 5000

Communication

Wireless

Dual-port transmission via Ethernet and serial port

POCcelerator™, UniPOC™, RAPIDComm®—Data Management Systems

Features and specifications are subject to manufacturer change.

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‡External scanner is optional and is not included with the analyzer.

§This feature applies only to facilities that implement an external wireless bridge between the RAPIDPoint 500e system and a DMS.

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