**Abbott Point of Care** Glen Tinevez glen.tinevez@abbott.com 104 Windsor Center Drive East Windsor, NJ 08520 Part 1 of 13 800-827-7828 www.abbottpointofcare.com Name of device/First year sold/No. of analyzers sold in 2007 i-STAT System/1992/-~30,000 worldwide/\$8,761 No. of devices sold in U.S./Outside U.S./List price Dimensions (H x W x D)/Weight  $9.25 \times 3.0 \times 2.85$  in./22.4 oz Analytes measured on device pH, pCO2, pO2, Hct, Na, K, Cl, iCa, lactate, glucose, creatinine, BUN, TCO2 Parameters calculated on device Hb, HCT, O2SAT, BE, TCO2, HCO3-**Barometric pressure** measured Analytical method(s), technology(ies) employed electrochemical for all analytes Device is part of a series of related models yes (through local sales representative) User list or group available **Device warranty** 1-yr replacement Loaner devices provided ves Average expected life of device 8 yrs Open or closed system/External gas tanks required closed/no For POC testing or laboratory POC testing Uses disposable prepackaged reagent/Electrode system for analysis reagent/electrode (single use) No. of disposable reagent system units in basic shipment package 25 per box No. of samples analyzed per one disposable reagent, electrode system List price per disposable reagent system Reagent unit storage requirements refrigerate, 2-week shelf life at room temperature Shelf life of disposable units reag./electrode: 6-9 months No. of different disposable reagents required to maintain device none Max. No. of specific analyte reagents that can reside in device at once Shelf life Cost per test/Reagent cost per test Calibrations required 1 point (automatic) **Calibration frequency** every test Calibrants traceable to NIST standards electronic QC, automated internal wet QC Internal QC program recommended comparable plot, monthly cumulative reports (available with external system) QC features Remote control of device from laboratory System can use LOINC to transmit results to LIS yes How labs get LOINC codes for reagent kits Detects clots within analysis chamber Specimen types suitable for device whole blood, capillary, mixed venous, arterial, venous Acceptable anticoagulants heparin Sampling technique injection, capillary transfer and fill Suitable for samples from well neonates/Sick neonates yes/yes Sample size for complete panel of analyte results blood gas 95 µL, electrolytes 65 µL Sample size differs with No. of analytes selected Recommended collection device syringe or capillary tube Provides for patient temperature corrected results Time from sample introduction to result availability about 2 min Max. No. of patient samples per hr/Max. No. of measured 20 per unit/160 parameters per hr Optimal throughput when calibrated and awaiting specimens Calibration can be interrupted to perform stat sample Contraindications Known interferences **Restrictions based on Hct** Sampler has self-wiping probe Time required for maintenance by lab personnel Onboard diagnostics for troubleshooting/Limited to software yes/no Diagnostics performed through modem yes Training & certification program for user yes, No. of training days varies Method of analyst ID in system keypad entry/bar-code scanner (customizable)  ${\bf code\ No.\ error\ message/code\ No.\ error\ message/} \\ {\bf code\ No.\ error\ message}$ Response for hardware & software failure/User ID & QC failure/ Calibration & power failure Supports bar-code scanning of operator & patient IDs, reagent lot No. User can search for and review previous patient results on screen yes Built-in printer/Data port Information on hard copy report device unique identifier, operator & patient IDs, results, QC results, QC identifier Analyzer connects to LIS/HIS, via data management system Interface standards supported ASTM 1394 & 1238, HL7, others To upload patient & QC results, how analyzer connects to direct serial; modem dial-in; hospital network external system Information included in transmission from analyzer to external system device unique identifier, operator & patient IDs, results, QC identifier QC Manager 3.0/Central Data Station Hardware/Software for data management system No. of different management reports system produces Contents downloaded from DMS to analyzer strip lot Nos., valid control values, valid operator IDs, customizations, analyzer locations System connected (live installations) to which LISs, HISs using screen animation, screen scraping all major LIS vendors using standard HL7 interface multiple vendors using proprietary protocol interface Use a third-party interfacing tool, engine for LIS, HIS interfaces yes, Sybase Distinguishing features (provided by vendor) handheld portable, single-use test cartridge menu; broadest test menu available on a single POC platform; laboratory accurate results at the bedside

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	Instrumentation Laboratory	Instrumentation Laboratory
Part 2 of 13	Xavier Nogue-Vila xvila@ilww.com 101 Hartwell Ave. Lexington, MA 02421 781-861-4244 www.ilus.com	Xavier Nogue-Vila xvila@ilww.com 101 Hartwell Ave., Lexington, MA 02421 781-861-4244 www.ilus.com
Name of device/First year sold/No. of analyzers sold in 2007 No. of devices sold in U.S./Outside U.S./List price	GEM Premier 3000/2000/1,580 >2,760/>7,580/\$39,995	GEM 3100/2000/1,580 >2,760/>7,580/\$39,995
Dimensions (H x W x D)/Weight  Analytes measured on device	17 × 12 × 12 in./29.5 lbs  pH, pO2, pCO2, Hct, Na+, K+, Ca++, glucose, lactate	22 × 12 × 12 in./31.5 lbs  pH, pO2, pCO2, Hct, Na+, K+, Ca++, glucose, lactate: PT, APTT, ACT, ACT-LR,
Parameters calculated on device	A-aDo2, Hb, pAO2, paO2/pAO2, RI, O2cap*, CtO2*, CaO2*, CvO2*, CcO2*, a-vDO2*,	citrate PT A-aDo2, Hb, pAO2, paO2/pAO2, Rl, O2cap*, CtO2*, CaO2*, CvO2*, CcO2*, a-vDO2*,
Barometric pressure	Qsp/Qt*, P50*	Qsp/Qt*, P50*
Analytical method(s), technology(ies) employed	pH, pCO2: potentiometry; pO2, glucose, lactate: amperometry; Hct: conductivity; Na, iCa, K: ISE	pH, pCO2: potentiometry; pO2, glucose, lactate: amperometry; Hct: conductivity; Na, iCa, K: ISE; PT, APTT, ACT, ACT-LR, citrate PT, mechanical clot detection
Device is part of a series of related models User list or group available Device warranty	yes yes (through local sales representative)	yes yes (through local sales representative)
Loaner devices provided  Average expected life of device	5 yrs yes 7–10 yrs	5 yrs yes 7–10 yrs
Open or closed system/External gas tanks required For POC testing or laboratory	closed/no POC & laboratory	closed/no POC & laboratory
POC: Uses disposable prepackaged reagent/Electrode system for analysis No. of disposable reagent system units in basic shipment package No. of samples analyzed per one disposable reagent, electrode system	yes (multiuse cartridge) 1 per pack 35-, 75-, 150-, 300-, 450-, & 600-test cartridge	yes (multiuse cartridge) 1 per pack cartridges available: 35-, 75-, 150-, 300-, 450-, & 600-test cartridge, 1 sample
List price per disposable reagent system Reagent unit storage requirements	varies with size & menu room temperature	per cartridge for coagulation tests  room temperature
Shelf life of disposable units	6 months	6 months
Laboratory:  No. of different disposable reagents required to maintain device  Max. No. of specific analyte reagents that can reside in device at once	1 1 multiuse cartridge	1 2:1 for blood gas/electrolytes, 1 for coagulation
Shelf life Cost per test/Reagent cost per test	6 months varies with size & menu	6 months varies with menu & cartridge size
Calibrations required Calibration frequency	1 & 2 point (automatic) 1 point: each patient sample; 2 point: at least every 4 hrs	1 & 2 point (automatic) 1 point: each patient sample; 2 point: at least every 4 hrs
Calibrants traceable to NIST standards Internal QC program recommended	yes internal, automated, continuous quality management included	yes internal, automated, continuous quality management included
QC features  Remote control of device from laboratory	Onboard Intelligent Quality Management; monthly report includes no. of mea- surements, mean, max, and min delta values yes	Onboard Intelligent Quality Management; monthly report includes no. of mea- surements, mean, max, and min delta values yes
System can use LOINC to transmit results to LIS How labs get LOINC codes for reagent kits	no —	no —
Detects clots within analysis chamber Specimen types suitable for device	yes; automatically attempts to clear whole blood, arterial, venous, or capillary	yes; automatically attempts to clear whole blood, arterial, venous, or capillary
Acceptable anticoagulants Sampling technique Suitable for samples from well neonates/Sick neonates	heparin aspiration yes/yes	heparin, fresh whole blood for coagulation tests aspiration yes/yes
Sample size for complete panel of analyte results Sample size differs with No. of analytes selected	135–150 μL no	135–150 μL, 50 μL for coagulation no
Recommended collection device Provides for patient temperature corrected results Time from sample introduction to result availability	syringe or capillary tube yes 85 seconds	syringe or capillary tube yes 85 seconds; under 5 min for coaqulation
Max. No. of patient samples per hr/Max. No. of measured parameters per hr	20/180	20/180
Optimal throughput when calibrated and awaiting specimens Calibration can be interrupted to perform stat sample Contraindications	20 samples per hour yes —	20 samples per hour yes —
Known interferences Restrictions based on Hct		  no
Sampler has self-wiping probe	yes	yes
Time required for maintenance by lab personnel Onboard diagnostics for troubleshooting/Limited to software Diagnostics performed through modem	disposable cartridge/no maintenance required yes/no no	no operator involvement yes/no no
Training & certification program for user	yes manual or bar-code entry of ID & password (customizable)	yes manual or bar-code entry of ID & password (customizable)
Method of analyst ID in system Response for hardware & software failure/User ID & QC failure/ Calibration & power failure	operator warning, sampling lockout/user ID: no system access, QC: channel flagged/calibration: no results for channel, power: automatic recalibration	operator warning, sampling lockout/user ID: no system access, QC: channel flagged/calibration: no results for channel, power: automatic recalibration
Supports bar-code scanning of User can search for and review previous patient results on screen	operator & patient IDs, QC values yes	operator & patient IDs, QC values yes
Built-in printer/Data port Information on hard copy report	yes/3 RS-232, 1 parallel, bar-code reader port, Ethernet port patient demographics, hospital name and address, results	yes/2 RS-232, 1 parallel, bar-code reader port, Ethernet port patient demographics, hospital name, results
Analyzer connects to	GEMweb, GEMweb Plus, Impact for Critical Care	GEMweb, GEMweb Plus, Impact for Critical Care
Interface standards supported To upload patient & QC results, how analyzer connects to	ASTM protocol direct serial, Ethernet, modem dial-in	ASTM protocol direct serial, modem dial-in, Ethernet
external system Information included in transmission from analyzer to external system Hardware/Software for data management system	device identifier, operator & patient IDs, results, QC ID & results Impact for Critical Care	device identifier, operator & patient IDs, results, QC ID Impact for Critical Care
No. of different management reports system produces  Contents downloaded from DMS to analyzer	customizable patient ID, demographics	customizable patient ID, demographics
System connected (live installations) to which LISs, HISs  using screen animation, screen scraping using standard HL7 interface	yes yes	yes yes
using proprietary protocol interface     Use a third-party interfacing tool, engine for LIS, HIS interfaces	yes yes	yes yes
Distinguishing features (provided by vendor)	Intelligent Quality Management; maintenance-free, multiuse cartridge available in 30 menu/size options for use in any hospital location; 20-year history	Intelligent Quality Management; maintenance-free, multiuse cartridge available in 30 menu/size options for use in any hospital location; 20-year history
	of cartridge technology; remote management from any PC via GEMweb; consolidated workstation for blood gas, electrolytes, Hct, glucose, lactate,	of cartridge technology; remote management from any PC via GEMweb; consolidated workstation
	co-oximetry, and coagulation * when interfaced to IL CO-Oximeter	* when interfaced to IL CO-Oximeter

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Part 3 of 13	Instrumentation Laboratory Xavier Nogue-Vila xvila@ilww.com 101 Hartwell Ave., Lexington, MA 02421 781-861-4244 www.ilus.com	ITC 8 Olsen Ave. Edison, NJ 08820 800-631-5945 www.itcmed.com
Name of device/First year sold/No. of analyzers sold in 2007 No. of devices sold in U.S./Outside U.S./List price Dimensions (H x W x D)/Weight	GEM Premier 4000/2006/100 1,000 worldwide/\$50,000 18 × 12 × 15 in./44 lbs	IRMA TRUpoint Blood Analysis System/1994/— 5,800 worldwide/ $\$$ 8,900 11.5 $\times$ 9.5 $\times$ 5 in./5 lbs, 4 oz
Analytes measured on device Parameters calculated on device	pH, pCO2, pO2, Hct, Na, K, Cl, iCa, lactate, glucose, tHb, O2Hb, COHb, MetHb, HHb Hct, TCO2, BEecf (in vivo), BE(B) (in vivo), tHb(c), Ca++ (7.4), anion gap, P/F ratio, pAO2,CaO2, CvO2, P50, O2cap, sO2, sO2(c), HCO3-std, HCO3-(c), A-aDO2, paO2/pAO2, RI, CcO2, a-vDO2, Qsp/Qt(est), Qsp/Qt	pH, pCO2, pO2, Hct, Na, K, Cl, iCa, glucose, BUN, creatinine, lactate Hb, O2SAT, BEb, BEecf, TCO2, HCO3-, iCa(n), creatinine MDRD-GFR
Barometric pressure Analytical method(s), technology(ies) employed	pH, pCO2: potentiometry; pO2, glucose, lactate: amperometry; Hct: conductivity; Hb: spectrophotometric; Na, Cl, iCa, K: potentiometric ion selective electrode	measured pH, pCO2, Na, Cl, iCa, K, BUN, creatinine, lactate (enzymatic): potentiometric; pO2, glucose (enzymatic): amperometric; Hct: conductometric; glucose strip (enzymatic): colormetric
Device is part of a series of related models User list or group available Device warranty Loaner devices provided Average expected life of device Open or closed system/External gas tanks required	yes yes (through local sales representative) 5 yrs yes 7–10 yrs closed/no	yes yes 1 yr yes 7 yrs closed/no
For POC testing or laboratory	POC & laboratory	POC testing
POC: Uses disposable prepackaged reagent/Electrode system for analysis No. of disposable reagent system units in basic shipment package No. of samples analyzed per one disposable reagent, electrode system List price per disposable reagent system Reagent unit storage requirements Shelf life of disposable units	yes (multiuse cartridge) 1 per pack cartidges available: 75, 150, 300, 450, 600 varies with size and menu room termperature 6 months	reagent/electrode (single use) 25 per box 1 \$6-\$7 room temperature; creatinine 2° to 8°C reagent/electrode: 6 months
Laboratory: No. of different disposable reagents required to maintain device Max. No. of specific analyte reagents that can reside in device at once Shelf life Cost per test/Reagent cost per test	1 1 multi-use cartridge 6 months (cartridge) varies with cartidge size and menu	
Calibrations required Calibration frequency Calibrants traceable to NIST standards Internal QC program recommended QC features	8 2 point (automatic)     1 point: each patient sample; 2 point: at least every 4 hrs     yes     internal, automated, continuous quality management included     Onboard Intelligent Quality Management; monthly report includes no. of mea-	2 point (automatic) automatic with each sample yes automatic electronic QC per 8 hrs L-J plots, statistical calculations, monthly cumulative reports (IDMS)
Remote control of device from laboratory System can use LOINC to transmit results to LIS How labs get LOINC codes for reagent kits	surements, mean, max, and min delta values yes no —	yes no —
Detects clots within analysis chamber Specimen types suitable for device Acceptable anticoagulants Sampling technique Suitable for samples from well neonates/Sick neonates Sample size for complete panel of analyte results Sample size differs with No. of analytes selected Recommended collection device Provides for patient temperature corrected results Time from sample introduction to result availability Max. No. of patient samples per hr/Max. No. of measured	yes; automatically attempts to clear whole blood, capillary, mixed venous, arterial, venous heparin aspiration yes/yes 150 μL, 95 μL (electrochemical only), 65 μL micro mode (electrochemical only) yes heparinized syringe or caillary tube yes 70 seconds for electrochemical and 25 additional seconds for CO-Ox 20/300	no—sample path visible whole blood, capillary, mixed venous, arterial, venous heparin, EDTA (glucose strip only) injection yes/yes 125 µL capillary, 200 µL syringe no standard blood gas syringe or capillary collection device yes 60–90 seconds on average 25/175
parameters per hr Optimal throughput when calibrated and awaiting specimens Calibration can be interrupted to perform stat sample Contraindications Known interferences Restrictions based on Hct	20 samples per hr yes no interfering substance would be detected and operator notified no	20 per hour  none  no
Sampler has self-wiping probe	yes	no, not needed
Time required for maintenance by lab personnel Onboard diagnostics for troubleshooting/Limited to software Diagnostics performed through modem Training & certification program for user	none yes/no no (but can through VPN) yes	maintenance free yes/no no yes
Method of analyst ID in system Response for hardware & software failure/User ID & QC failure/ Calibration & power failure  Supports bar-code scanning of User can search for and review previous patient results on screen Built-in printer/Data port	wireless bar-code gun or manual virtual keyboard entry operator warning, sampling lockout/user ID: no system access/QC: iQM disables analyte channel; no result reported/iQM disables analyte channel; no result reported/power: system automatically performs checks before samples can be analyzed operator & patient IDs, cartridge lot number & expiration date yes yes/4 RS-232, 1 parallel port, 1 Ethernet port, 4 USB ports	LCD touchscreen, numeric (customizable) EQC failure or screen prompt, software: screen prompt/if user ID required, no access to menu, if QC required, no access to patient testing mode/calib.: test ends-no injection of sample allowed, power: blank screen-resume testing with power operator & patient IDs, cartridge information, lot No., quality control ranges yes yes/RS-232, modem, Ethernet
Information on hard copy report	patient demographics, hospital info, results, result flags and legend, reference and critical ranges (optional), comments, notification info	analyzer serial No., date, calib. successful, calib. code, lot No., patient ID & temp., results, barometric press., SW version optional: user ID, ref. ranges, O2 therapy, sample information
Analyzer connects to  Interface standards supported To upload patient & QC results, how analyzer connects to	LIS/HIS via direct interface or via IL's GEMweb Plus data management system; vendor-neutral or Web-based systems ASTM 1394, HL7 direct serial, hospital network, real-time wireless	data management system, which connects to LIS/HIS; directly to LIS/HIS (both options) IRMA (ASTM protocol), idms (script, HL7, or EDI) hospital network, direct serial, modem dial-in
external system Information included in transmission from analyzer to external system Hardware/Software for data management system	device identifier, operator & patient IDs, results, QC ID  GEMweb Plus	device unique identifier, operator & patient IDs, results, QC identifier, patient 02 therapy information integrated data management system, also integrates ITC co-oximetry and coagulation devices, connects to MAS, Telcor, and Aegis POC data managers
No. of different management reports system produces Contents downloaded from DMS to analyzer	4 most configuration information, including valid operator IDs, QC lots and ranges	coagulation devices, connects to MAS, Telcor, and Aegis POC data managers 24 all analyzer settings, software upgrades
System connected (live installations) to which LISs, HISs  using screen animation, screen scraping using standard HL7 interface using proprietary protocol interface Use a third-party interfacing tool, engine for LIS, HIS interfaces	— SCC, Misys, Cerner, Meditech — MAS-Rals Plus, Telecor Quick-Linc	all major HIS/LIS vendors all major HIS/LIS vendors customizable EDI interface to HIS/LIS vendors yes
Distinguishing features (provided by vendor)	IQM detects, corrects, and documents instrument errors, reducing time to error detection to minutes; single component, multi-use GEM Premier 4000 cartridge includes testing components, is changed every 30 days, requires no refrigeration or maintenance; GEMweb Plus is an information management system for the GEM Premier 4000 analyzer	self contained and easy to use; contains onboard printer, interactive touchscreen, bar-code scanning, automatic electronic QC, and site-specific custom correlation reference ranges; complete data management from patient information to lot traceability; self-calibrating cartridges with Luer lockport, which forms a closed system and reduces biohazards, room-temperature cartridge storage

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	Charlene M. Soley csoley@medicacorp.com	Medica Corp. Charlene M. Soley csoley@medicacorp.com
	5 Oak Park Drive, Bedford, MA 01730 800-777-5983 or 781-275-4892	5 Oak Park Drive, Bedford, MA 01730 800-777-5983 or 781-275-4892
Part 4 of 13	www.medicacorp.com	www.medicacorp.com
Name of device/First year sold/No. of analyzers sold in 2007 No. of devices sold in U.S./Outside U.S./List price Dimensions (H x W x D)/Weight	EasyBloodGas/2000/255 —/255/\$10,750 12.5 × 14.5 × 7 in./16 lbs	EasyStat/2002/166 —/166/\$12,500 12.5 × 14.5 × 7.0 in./17 lbs
Analytes measured on device	pH, pO2, pCO2	pH, pCO2, pO2, Hct, Na, K, iCa or Cl
Parameters calculated on device Barometric pressure	O2SAT, BE, TCO2, HCO3- measured	Hb, O2SAT, BE, TCO2, HCO3- measured and recorded
Analytical method(s), technology(ies) employed	pH: ISE-potentiometry; pCO2: ISE-potentiometry; pO2: ISE-amperometry	pH and pCO2: ISE-potentiometry; pO2: ISE-amperometry; Hct: conductivity; Hb: calculated from Hct; iCa: ISE; K: ISE
Device is part of a series of related models  User list or group available	yes (basic model first gen., related to expanded model EasyStat)	yes (expanded parameter menu, related to EasyBloodGas)
Device warranty	yes 1-yr analyzer warranty	yes 1 yr analyzer warranty
Loaner devices provided Average expected life of device	yes >5 yrs	yes (planned) >5 yrs
Open or closed system/External gas tanks required For POC testing or laboratory	closed/no laboratory	closed/no laboratory
POC:		
Uses disposable prepackaged reagent/Electrode system for analysis No. of disposable reagent system units in basic shipment package	reagent & electrode 1	reagent & electrode 1
No. of samples analyzed per one disposable reagent, electrode system List price per disposable reagent system	based on testing volume per day —	based on testing volume per day —
Reagent unit storage requirements Shelf life of disposable units	room temperature: 5° to 25°C reagent module, 10 months; electrodes, 12 months	room temperature: 5° to 25°C reagent module: 10 months; electrodes: 12 months
Laboratory:		
No. of different disposable reagents required to maintain device Max. No. of specific analyte reagents that can reside in device at once	1	1
Shelf life Cost per test/Reagent cost per test	reagent module: 10 months; electrode: 12 months \$0.57 at 20 samples per day/\$0.26 at 20 samples per day	reagent module: 10 months; electrode: 12 months <\$0.80 per sample at 20 samples per day/\$0.33 at 20 samples per day
Calibrations required	1 & 2 point (automatic)	1 & 2 point (automatic)
Calibration frequency  Calibrants traceable to NIST standards	1 point: during each sample analysis; 2 point: can be set for 2-, 4-, or 8-hr increments yes	1 point: with every sample analysis; 2 point: can be set for 2-, 4-, or 8-hr increments yes
Internal QC program recommended QC features	1 level per 8 hrs, CLIA recommendations, Medica controls recommended L-J plots; monthly cumulative reports	1 level per 8 hrs, CLIA recommendations, Medica controls recommended L-J plots; monthly cum. report
Remote control of device from laboratory System can use LOINC to transmit results to LIS	no no	no no
How labs get LOINC codes for reagent kits	<u>=</u>	<u> </u>
Detects clots within analysis chamber Specimen types suitable for device	yes whole blood, capillary, mixed venous, arterial, venous	yes plasma, serum, whole blood, capillary, mixed venous, arterial, venous
Acceptable anticoagulants	heparin	heparin
Sampling technique Suitable for samples from well neonates/Sick neonates	aspiration yes/yes	aspiration yes/yes
Sample size for complete panel of analyte results Sample size differs with No. of analytes selected	100 μL syringe; 75 μL capillary no	120 µL syringe; 95 µL capillary no
Recommended collection device Provides for patient temperature corrected results	heparinized capillary or syringe yes	heparinized capillary or syringe yes
Time from sample introduction to result availability Max. No. of patient samples per hr/Max. No. of measured	125 seconds, includes 1 point calibration 25/75	<120 seconds, includes 1 point calibration 30/210
parameters per hr Optimal throughput when calibrated and awaiting specimens	25 samples	30 samples
Calibration can be interrupted to perform stat sample Contraindications	yes no	yes no
Known interferences Restrictions based on Hct	incorrect anticoagulant no	incorrect anticoagulant no
Sampler has self-wiping probe	yes	yes
Time required for maintenance by lab personnel Onboard diagnostics for troubleshooting/Limited to software	daily: 0.5 min; weekly: 3.5 min; monthly: 15 min yes/no	daily: 0.5 min; weekly: 3.5 min; monthly: 15 min yes/no
Diagnostics performed through modem Training & certification program for user	no yes (through distributors)	no yes (through distributors)
Method of analyst ID in system	manual or bar-code wand for ID entry (optional)	manual or bar-code entry (optional)
Response for hardware & software failure/User ID & QC failure/ Calibration & power failure	HW: oper. warning & error msg.; SW: error msg./user ID: sampling lockout; QC failure; flagged results/calib.: error msg. & 2nd attempt for 2-pt. calib. auto.; power: display not illuminated, data retained & auto reset	HW: operator warning-error message; SW: error message/user ID: sampling lockout; QC: flagged results/calibration: error message & 2nd 2 pt calibration automatically run; power: display not illuminated, data retained-auto reset
Supports bar-code scanning of	operator & patient IDs, reagent lot No., QC control, reagent pack automatically	operator & patient IDs, QC controls, reagent pack automatically read when
User can search for and review previous patient results on screen	read when reagent module installed yes	reagent module installed yes
Built-in printer/Data port Information on hard copy report	yes/RS-232 patient information; measured & calculated parameters	yes/RS-232 patient information, measured & calculated results, date, operator ID
Analyzer connects to	data management system, which can further transmit data; directly to LIS/HIS	data management system, which connects to LIS/HIS; data management system,
Interface standards supported	Medica protocol	which can further transmit data; directly to LIS/HIS Medica protocol
To upload patient & QC results, how analyzer connects to external system Information included in transmission from analyzer to external system	direct serial patient ID, results	direct serial operator & patient IDs, results
Hardware/Software for data management system	internal	internal
No. of different management reports system produces Contents downloaded from DMS to analyzer	QC, L-J chart, patient reports —	QC, L-J chart, patient & proficiency reports —
System connected (live installations) to which LISs, HISs     using screen animation, screen scraping     using standard HL7 interface	_	_
using proprietary protocol interface		TID
Use a third-party interfacing tool, engine for LIS, HIS interfaces	TBD	TBD
Distinguishing features (provided by vendor)	modular components; simple operation and maintenance; low operation cost; disposable, maintenance-free sensors; no gas tanks; easy inside and out	modular components; simple operation and maintenance; low operation cost; disposable, maintenance-free sensors; no gas tanks, easy inside and out

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	Nova Biomedical	Nova Biomedical
	Sales info@novabiomedical.com	Sales info@novabiomedical.com
	200 Prospect St. Waltham, MA 02454-9141	200 Prospect St. Waltham, MA 02454-9141
Part 5 of 13	800-458-5813	800-458-5813
Name of device/First year sold/No. of analyzers sold in 2007	Stat Profile pH0x Basic/2002/—	Stat Profile pH0x/1998/—
No. of devices sold in U.S./Outside U.S./List price	—/—/ <b>\$12</b> ,000	—/—/\$15, <del>0</del> 00
Dimensions (H x W x D)/Weight	15×12×15 in./18 lbs	15 × 12 × 15 in./18 lbs
Analytes measured on device	pH, pCO2, pO2	pH, PCO2, PO2, Hct, Hb, SO2%
Parameters calculated on device Barometric pressure	BE, TCO2, HCO3- tracked	BE, TCO2, HCO3- tracked
Analytical method(s), technology(ies) employed	pH: direct ISE; PCO2: Severinghaus; PO2: amperometry	pH: direct ISE; PCO2: Severinghaus; PO2: amperometry; Hct: conductivity; Hb &
Device is weath of a series of valeted would be		S02%: optical-reflectance
Device is part of a series of related models  User list or group available	yes yes (upon request)	yes yes (upon request)
Device warranty	1 yr, repair or replacement of any part, including labor	1 yr, travel and labor, repair or replacement
Loaner devices provided Average expected life of device	no 5–7 yrs	yes 5–7 yrs
Open or closed system/External gas tanks required	closed/no	closed/no
For POC testing or laboratory	POC & laboratory	POC & laboratory
POC:		
Uses disposable prepackaged reagent/Electrode system for analysis No. of disposable reagent system units in basic shipment package	reagent 200–500 analyses	reagent 200–500 analyses
No. of samples analyzed per one disposable reagent, electrode system	— analyses	
List price per disposable reagent system Reagent unit storage requirements	\$200-\$265	\$200-\$265
Shelf life of disposable units	room temperature reagents: 18 months room temperature; electrodes: up to 18 months	room temperature reagents: 18 months room temperature, electrodes: up to 18 months
Laboratory: No. of different disposable reagents required to maintain device	1	1
Max. No. of specific analyte reagents that can reside in device at once	1	i
Shelf life Cost per test/Reagent cost per test	reagents & electrodes: 18 months; membrane kits: 12–24 months <\$0.11 at 35 analyses per day/<\$0.08 at 35 analyses per day	reagents & electrodes: 18 months; membrane kits: 12–24 months <\$0.11 at 35 analyses per day/<\$0.08 at 35 analyses per day
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Calibrations required	1 & 2 point (automatic)	1 & 2 point (automatic)
Calibration frequency	1 point: 30 or 45 min or with every sample (user selectable); 2 point: 2, 4, or 6 hr (user defined)	1 point: 30 or 45 min or with every sample (user selectable); 2 point: 2, 4, or 6 hr (user defined)
Calibrants traceable to NIST standards	yes	yes
Internal QC program recommended QC features	minimum CLIA recommendations L-J plots, statistical calcs., monthly cum. report (onboard, more extensive	minimum CLIA recommendations L-J plots, statistical calcs., monthly cum. report (onboard, more extensive report-
40 location	reporting avail. with Nova Point-of-Care Manager)	ing avail. with Nova Point-of-Care Manager)
Remote control of device from laboratory System can use LOINC to transmit results to LIS	yes no	no no
How labs get LOINC codes for reagent kits	——————————————————————————————————————	—
Datasta eleta within analysis chamber	No.	100
Detects clots within analysis chamber Specimen types suitable for device	yes whole blood, capillary, mixed venous, arterial	yes whole blood, capillary, mixed venous, arterial
Acceptable anticoagulants	heparin	heparin
Sampling technique Suitable for samples from well neonates/Sick neonates	aspiration & capillary yes/yes	aspiration & capillary yes/yes
Sample size for complete panel of analyte results	70 μL	70 μL
Sample size differs with No. of analytes selected Recommended collection device	yes, standard 3-test blood gas micro-panel sample req. is 45 µL syringe, capill., micro-collect. containers, standard vacuum cont.	yes, standard 3-test blood gas micro-panel sample req. is 45 µL syringe, capill., micro-collect. containers, standard vacuum cont.
Provides for patient temperature corrected results	yes	yes
Time from sample introduction to result availability Max. No. of patient samples per hr/Max. No. of measured	45 seconds 300/300 tests	45 seconds 300/300 tests
parameters per hr	000/000 10313	000/000 (636)
Optimal throughput when calibrated and awaiting specimens Calibration can be interrupted to perform stat sample	300 tests per hr	300 tests per hr
Contraindications	yes none	yes none
Known interferences	none	none
Restrictions based on Hct Sampler has self-wiping probe	no yes	no yes
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Time required for maintenance by lab personnel Onboard diagnostics for troubleshooting/Limited to software	weekly: <5 min; monthly: <10 min yes/no	weekly: <5 min; monthly: <10 min yes/no
Diagnostics performed through modem	yes	yes
Training & certification program for user	yes (on site)	yes (on site)
Method of analyst ID in system	password with unique user ID No. (optional)	password with unique user ID No. (optional)
Response for hardware & software failure/User ID & QC failure/ Calibration & power failure	self-diag. SW informs & notifies oper. of HW & SW failure; hotline & field support depending on problem/optional lockout w/o proper user ID; options for QC	self-diag. SW informs & notifies oper. of HW failure; hotline & field support depending on problem/optional lockout w/o user ID; options for QC failure
valibration & power failure	failure range from flagging to not reporting test that fails QC to lockout for QC	range from flagging to not reporting test that fails QC to lockout for QC failure or
	failure or exceeding scheduled QC interval/ any test that does not calibrate will	exceeding scheduled QC interval/ any test that does not calibrate will not report
	not report results & instrument notifies oper. of reason for failure; momentary power interrupts require no recovery–extended power failure results in auto-	results & instrument notifies oper. of reason for failure; momentary power inter- rupts require no recovery–extended power failure results in automatic calib.
Cunnavia hay and aing of	matic calib.	
Supports bar-code scanning of User can search for and review previous patient results on screen	patient ID yes	patient ID yes
Built-in printer/Data port	yes/multiple RS-232	yes/multiple RS-232
Information on hard copy report	patient ID w/ access. No., entered settings, meas. & calc. results	patient ID w/ access. No., entered settings, meas. & calc. results
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Analyzer connects to Interface standards supported	data management system which connects to LIS/HIS ASTM E1381-91 & ASTM 1394-91 (HL7 avail. with external device)	data management system and/or directly to LIS/HIS ASTM E1381-91 & ASTM 1394-91 (HL7 avail. with external device)
To upload patient & QC results, how analyzer connects to	direct serial/>500 hospitals inst.; hospital network/>100 inst.	direct serial/>500 hospitals inst.; hospital network/>100 inst.
external system Information included in transmission from analyzer to external system	device unique identifier, operator & patient IDs, results, QC identifier, accession	device unique identifier, operator & patient IDs, results, QC identifier, accession
	No.	No.
Hardware/Software for data management system No. of different management reports system produces	Pentium with Microsoft NT 4.0/Nova Point-of-Care Manager SW >60	Pentium with Microsoft Windows 2000/Nova Point-of-Care Manager >60
Contents downloaded from DMS to analyzer	_	yes, patient name, passwords
System connected (live installations) to which LISs, HISs	>20	>20
using screen animation, screen scraping     using standard HL7 interface	>20 >100	>20 >100
using proprietary protocol interface	>500	>500
	>500 yes	>500 yes
using proprietary protocol interface		

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	Nova Biomedical	Nova Biomedical
	Sales info@novabiomedical.com 200 Prospect St.	Sales info@novabiomedical.com 200 Prospect St.
	Waltham, MA 02454-9141	Waltham, MA 02454-9141
Part Part 6 of 13	800-458-5813	800-458-5813
Name of device/First year sold/No. of analyzers sold in 2007	Stat Profile pH0x Respiratory/2006/—	Stat Profile pH0x Plus/2000/—
No. of devices sold in U.S./Outside U.S./List price	—/—/\$27,500	—/—/\$29,000
Dimensions (H x W x D)/Weight	15 × 12 × 15 in./18 lbs	15×12×15 in./18 lbs
Analytes measured on device	pH, PC02, P02, Hct, Hb, S02%, lactate	pH, PCO2, PO2, Hct, Hb, SO2%, Na, K, Cl or iCa, glucose
Parameters calculated on device Barometric pressure	BE, TCO2, HCO3- tracked	BE, TCO2, HCO3- tracked
Analytical method(s), technology(ies) employed	pH: direct ISE; PCO2: Severinghaus; PO2: amperometry; Hct: conductivity; Hb &	pH: direct ISE; PCO2: Severinghaus; PO2: amperometry; Hct: conductivity; Hb &
	SO2%: optical-reflectance; lactate: enzyme/amperometric	S02%: optical-reflectance; Na, K, Cl, iCa: direct ISE; glucose: enzyme/ampero- metric
Device is part of a series of related models	yes	yes
User list or group available	yes (upon request)	yes (upon request)
Device warranty Loaner devices provided	1 yr, travel and labor, repair or replacement yes	1 yr, travel and labor, repair or replacement yes
Average expected life of device	5–7 yrs	5–7 yrs
Open or closed system/External gas tanks required For POC testing or laboratory	closed/no POC & laboratory	closed/no POC & laboratory
POC: Uses disposable prepackaged reagent/Electrode system for analysis	reagent	reagent
No. of disposable reagent system units in basic shipment package	200–500 analyses	200–500 analyses
No. of samples analyzed per one disposable reagent, electrode system	— ************************************	— 6040, 6075
List price per disposable reagent system  Reagent unit storage requirements	\$210–\$275 room temperature	\$210-\$275 room temperature
Shelf life of disposable units	reagents: 18 months room temperature, electrodes: up to 18 months	reagents: 18 months room temperature, electrodes: up to 18 months
Laboratory:		
No. of different disposable reagents required to maintain device	1	1
Max. No. of specific analyte reagents that can reside in device at once Shelf life	1 reagents & electrodes: 18 months; membrane kits: 12–24 months	1 reagents & electrodes: 18 months; membrane kits: 12–24 months
Cost per test/Reagent cost per test	reagents & electrodes: 18 months; memorane kits: 12-24 months <\$0.11 at 35 analyses per day/<\$0.08 at 35 analyses per day	reagents & electrodes: 18 months; membrane kits: 12-24 months <\$0.11 at 35 analyses per day/<\$0.08 at 35 analyses per day
<u> </u>		
Calibrations required Calibration frequency	1 & 2 point (automatic) 1 point: 30 or 45 min or with every sample (user selectable); 2 point: 2, 4, or 6	1 & 2 point (automatic) 1 point: 30 or 45 min or with every sample (user selectable); 2 point: 2, 4, or 6 hr
Substitution requestory	hr (user defined)	(user defined)
Calibrants traceable to NIST standards Internal QC program recommended	yes minimum CLIA recommendations	yes minimum CLIA recommendations
QC features	L-J plots, statistical calcs., monthly cum. report (onboard, more extensive	L-J plots, statistical calcs., monthly cum. report (onboard, more extensive report-
	reporting avail. with Nova Point-of-Care Manager)	ing avail. with Nova Point-of-Care Manager)
Remote control of device from laboratory  System can use LOINC to transmit results to LIS	no no	no no
How labs get LOINC codes for reagent kits	<del>-</del>	<del>-</del>
Detects clots within analysis chamber	yes	yes
Specimen types suitable for device	whole blood, capillary, mixed venous, arterial	whole blood, capillary, mixed venous, arterial
Acceptable anticoagulants	heparin	heparin
Sampling technique Suitable for samples from well neonates/Sick neonates	aspiration & capillary yes/yes	aspiration & capillary yes/yes
Sample size for complete panel of analyte results	125 μL	115 µL
		yes, micro-panel; standard 3-test micro-panel reg. is 55 µL
Sample size differs with No. of analytes selected	yes, standard 3-test micro-panel req. is 60 µL	
Recommended collection device Provides for patient temperature corrected results	yes, standard 3-test micro-panel red. is 60 µL syringe, capill., micro-collect. containers, standard vacuum cont. yes	syringe, capill., micro-collect. containers, standard vacuum cont. yes
Recommended collection device Provides for patient temperature corrected results Time from sample introduction to result availability	syringe, capill., micro-collect. containers, standard vacuum cont. yes 52 seconds	syringe, capill., micro-collect. containers, standard vacuum cont. yes 50 seconds
Recommended collection device Provides for patient temperature corrected results Time from sample introduction to result availability Max. No. of patient samples per hr/Max. No. of measured parameters per hr	syringe, capill., micro-collect. containers, standard vacuum cont. yes	syringe, capill., micro-collect. containers, standard vacuum cont. yes
Recommended collection device Provides for patient temperature corrected results Time from sample introduction to result availability Max. No. of patient samples per hr/Max. No. of measured parameters per hr Optimal throughput when calibrated and awaiting specimens	syringe, capill., micro-collect. containers, standard vacuum cont. yes 52 seconds 50/500 tests 300 tests per hr	syringe, capill., micro-collect. containers, standard vacuum cont. yes 50 seconds 50/500 tests 300 tests per hr
Recommended collection device Provides for patient temperature corrected results Time from sample introduction to result availability Max. No. of patient samples per hr/Max. No. of measured parameters per hr	syringe, capill., micro-collect. containers, standard vacuum cont. yes 52 seconds 50/500 tests	syringe, capill., micro-collect. containers, standard vacuum cont. yes 50 seconds 50/500 tests
Recommended collection device Provides for patient temperature corrected results Time from sample introduction to result availability Max. No. of patient samples per hr/Max. No. of measured parameters per hr Optimal throughput when calibrated and awaiting specimens Calibration can be interrupted to perform stat sample Contraindications Known interferences	syringe, capill., micro-collect. containers, standard vacuum cont. yes 52 seconds 50/500 tests 300 tests per hr yes none none	syringe, capill., micro-collect. containers, standard vacuum cont. yes 50 seconds 50/500 tests 300 tests per hr yes none none
Recommended collection device Provides for patient temperature corrected results Time from sample introduction to result availability Max. No. of patient samples per hr/Max. No. of measured parameters per hr Optimal throughput when calibrated and awaiting specimens Calibration can be interrupted to perform stat sample Contraindications Known interferences Restrictions based on Hct	syringe, capill., micro-collect. containers, standard vacuum cont. yes 52 seconds 50/500 tests 300 tests per hr yes none none	syringe, capill., micro-collect. containers, standard vacuum cont. yes 50 seconds 50/500 tests 300 tests per hr yes none none
Recommended collection device Provides for patient temperature corrected results Time from sample introduction to result availability Max. No. of patient samples per hr/Max. No. of measured parameters per hr Optimal throughput when calibrated and awaiting specimens Calibration can be interrupted to perform stat sample Contraindications Known interferences Restrictions based on Hct Sampler has self-wiping probe	syringe, capill., micro-collect. containers, standard vacuum cont. yes 52 seconds 50/500 tests 300 tests per hr yes none none no yes	syringe, capill., micro-collect. containers, standard vacuum cont. yes 50 seconds 50/500 tests 300 tests per hr yes none none no yes
Recommended collection device Provides for patient temperature corrected results Time from sample introduction to result availability Max. No. of patient samples per hr/Max. No. of measured parameters per hr Optimal throughput when calibrated and awaiting specimens Calibration can be interrupted to perform stat sample Contraindications Known interferences Restrictions based on Hct Sampler has self-wiping probe  Time required for maintenance by lab personnel	syringe, capill., micro-collect. containers, standard vacuum cont. yes 52 seconds 50/500 tests 300 tests per hr yes none none no yes  weekly: <5 min; monthly: <10 min	syringe, capill., micro-collect. containers, standard vacuum cont. yes 50 seconds 50/500 tests 300 tests per hr yes none none no yes  weekly: <5 min; monthly: <10 min
Recommended collection device Provides for patient temperature corrected results Time from sample introduction to result availability Max. No. of patient samples per hr/Max. No. of measured parameters per hr Optimal throughput when calibrated and awaiting specimens Calibration can be interrupted to perform stat sample Contraindications Known interferences Restrictions based on Hct Sampler has self-wiping probe  Time required for maintenance by lab personnel Onboard diagnostics for troubleshooting/Limited to software Diagnostics performed through modem	syringe, capill., micro-collect. containers, standard vacuum cont. yes 52 seconds 50/500 tests 300 tests per hr yes none none no yes	syringe, capill., micro-collect. containers, standard vacuum cont. yes 50 seconds 50/500 tests 300 tests per hr yes none none no yes
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Recommended collection device Provides for patient temperature corrected results Time from sample introduction to result availability Max. No. of patient samples per hr/Max. No. of measured parameters per hr Optimal throughput when calibrated and awaiting specimens Calibration can be interrupted to perform stat sample Contraindications Known interferences Restrictions based on Hct Sampler has self-wiping probe  Time required for maintenance by lab personnel Onboard diagnostics for troubleshooting/Limited to software Diagnostics performed through modem	syringe, capill., micro-collect. containers, standard vacuum cont. yes 52 seconds 50/500 tests 300 tests per hr yes none none no yes  weekly: <5 min; monthly: <10 min yes/no yes	syringe, capill., micro-collect. containers, standard vacuum cont. yes 50 seconds 50/500 tests 300 tests per hr yes none none no yes  weekly: <5 min; monthly: <10 min yes/no yes
Recommended collection device Provides for patient temperature corrected results Time from sample introduction to result availability Max. No. of patient samples per hr/Max. No. of measured parameters per hr Optimal throughput when calibrated and awaiting specimens Calibration can be interrupted to perform stat sample Contraindications Known interferences Restrictions based on Hct Sampler has self-wiping probe  Time required for maintenance by lab personnel Onboard diagnostics for troubleshooting/Limited to software Diagnostics performed through modem Training & certification program for user  Method of analyst ID in system Response for hardware & software failure/User ID & QC failure/	syringe, capill., micro-collect. containers, standard vacuum cont. yes 52 seconds 50/500 tests 300 tests per hr yes none none no yes  weekly: <5 min; monthly: <10 min yes/no yes yes (on site)  password with unique user ID No. (optional) self-diag. SW informs & notifies oper. of HW failure; hotline & field support	syringe, capill., micro-collect. containers, standard vacuum cont. yes 50 seconds 50/500 tests 300 tests per hr yes none none no yes  weekly: <5 min; monthly: <10 min yes/no yes yes (on site)  password with unique user ID No. (optional) self-diag. SW informs & notifies oper. of HW failure; hotline & field support
Recommended collection device Provides for patient temperature corrected results Time from sample introduction to result availability Max. No. of patient samples per hr/Max. No. of measured parameters per hr Optimal throughput when calibrated and awaiting specimens Calibration can be interrupted to perform stat sample Contraindications Known interferences Restrictions based on Hct Sampler has self-wiping probe  Time required for maintenance by lab personnel Onboard diagnostics for troubleshooting/Limited to software Diagnostics performed through modem Training & certification program for user	syringe, capill., micro-collect. containers, standard vacuum cont. yes 52 seconds 50/500 tests  300 tests per hr yes none no yes  weekly: <5 min; monthly: <10 min yes/no yes yes (on site)  password with unique user ID No. (optional) self-diag. SW informs & notifies oper. of HW failure; hotline & field support depending on problem/optional lockout w/o user ID; options for QC failure	syringe, capill., micro-collect. containers, standard vacuum cont. yes 50 seconds 50/500 tests  300 tests per hr yes none none no yes  weekly: <5 min; monthly: <10 min yes/no yes yes (on site)  password with unique user ID No. (optional) self-diag. SW informs & notifies oper. of HW failure; hotline & field support depending on problem/optional lockout w/o user ID; options for QC failure
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Recommended collection device Provides for patient temperature corrected results Time from sample introduction to result availability Max. No. of patient samples per hr/Max. No. of measured parameters per hr Optimal throughput when calibrated and awaiting specimens Calibration can be interrupted to perform stat sample Contraindications Known interferences Restrictions based on Hct Sampler has self-wiping probe  Time required for maintenance by lab personnel Onboard diagnostics for troubleshooting/Limited to software Diagnostics performed through modem Training & certification program for user  Method of analyst ID in system Response for hardware & software failure/User ID & QC failure/	syringe, capill., micro-collect. containers, standard vacuum cont. yes 52 seconds 50/500 tests  300 tests per hr yes none no yes  weekly: <5 min; monthly: <10 min yes/no yes yes (on site)  password with unique user ID No. (optional) self-diag. SW informs & notifies oper. of HW failure; hotline & field support depending on problem/optional lockout w/o user ID; options for QC failure range from flagging to not reporting test that fails QC to lockout for QC failure or exceeding scheduled QC interval/ any test that does not calibrate will not report results & instrument notifies oper. of reason for failure; momentary	syringe, capill., micro-collect. containers, standard vacuum cont. yes 50 seconds 50/500 tests  300 tests per hr yes none none no yes  weekly: <5 min; monthly: <10 min yes/no yes yes (on site)  password with unique user ID No. (optional) self-diag. SW informs & notifies oper. of HW failure; hotline & field support depending on problem/optional lockout w/o user ID; options for QC failure range from flagging to not reporting test that fails QC to lockout for QC failure or exceeding scheduled QC interval/ any test that does not calibrate will not report results & instrument notifies oper. of reason for failure; momentary power inter-
Recommended collection device Provides for patient temperature corrected results Time from sample introduction to result availability Max. No. of patient samples per hr/Max. No. of measured parameters per hr Optimal throughput when calibrated and awaiting specimens Calibration can be interrupted to perform stat sample Contraindications Known interferences Restrictions based on Hct Sampler has self-wiping probe  Time required for maintenance by lab personnel Onboard diagnostics for troubleshooting/Limited to software Diagnostics performed through modem Training & certification program for user  Method of analyst ID in system Response for hardware & software failure/User ID & QC failure/	syringe, capill., micro-collect. containers, standard vacuum cont. yes 52 seconds 50/500 tests  300 tests per hr yes none noe no yes  weekly: <5 min; monthly: <10 min yes/no yes yes (on site)  password with unique user ID No. (optional) self-diag. SW informs & notifies oper. of HW failure; hotline & field support depending on problem/optional lockout w/o user ID; options for QC failure range from flagging to not reporting test that fails QC to lockout for QC failure or exceeding scheduled QC interval/ any test that does not calibrate will not report results & instrument notifies oper. of reason for failure; momentary power interrupts require no recovery—extended power failure results in automatic calib.	syringe, capill., micro-collect. containers, standard vacuum cont. yes 50 seconds 50/500 tests  300 tests per hr yes none none no yes  weekly: <5 min; monthly: <10 min yes/no yes yes (on site)  password with unique user ID No. (optional) self-diag. SW informs & notifies oper. of HW failure; hotline & field support depending on problem/optional lockout w/o user ID; options for QC failure range from flagging to not reporting test that fails QC to lockout for QC failure or exceeding scheduled QC interval/ any test that does not calibrate will not report
Recommended collection device Provides for patient temperature corrected results Time from sample introduction to result availability Max. No. of patient samples per hr/Max. No. of measured parameters per hr Optimal throughput when calibrated and awaiting specimens Calibration can be interrupted to perform stat sample Contraindications Known interferences Restrictions based on Hct Sampler has self-wiping probe  Time required for maintenance by lab personnel Onboard diagnostics for troubleshooting/Limited to software Diagnostics performed through modem Training & certification program for user  Method of analyst ID in system Response for hardware & software failure/User ID & QC failure/ Calibration & power failure	syringe, capill., micro-collect. containers, standard vacuum cont. yes 52 seconds 50/500 tests  300 tests per hr yes none noe no yes  weekly: <5 min; monthly: <10 min yes/no yes yes (on site)  password with unique user ID No. (optional) self-diag. SW informs & notifies oper. of HW failure; hotline & field support depending on problem/optional lockout w/o user ID; options for QC failure range from flagging to not reporting test that fails QC to lockout for QC failure or exceeding scheduled QC interval/ any test that does not calibrate will not report results & instrument notifies oper. of reason for failure; momentary power interrupts require no recovery—extended power failure results in automatic calib. patient ID	syringe, capill., micro-collect. containers, standard vacuum cont. yes 50 seconds 50/500 tests  300 tests per hr yes none none no yes  weekly: <5 min; monthly: <10 min yes/no yes yes (on site)  password with unique user ID No. (optional) self-diag. SW informs & notifies oper. of HW failure; hotline & field support depending on problem/optional lockout w/o user ID; options for QC failure range from flagging to not reporting test that fails QC to lockout for QC failure or exceeding scheduled QC interval/ any test that does not calibrate will not report results & instrument notifies oper. of reason for failure; momentary power inter- rupts require no recovery–extended power failure results in automatic calib. patient ID
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	Nova Biomedical	Nova Biomedical
	Sales info@novabiomedical.com 200 Prospect St.	Sales info@novabiomedical.com 200 Prospect St.
Part 7 of 13	Waltham, MA 02454-9141 800-458-5813	Waltham, MA 02454-9141 800-458-5813
	800-450-5013	800-430-3013
Name of device/First year sold/No. of analyzers sold in 2007 No. of devices sold in U.S./Outside U.S./List price	Stat Profile pH0x Plus L/2001/—//\$32,000	Stat Profile pH0x Plus C/2003/— —/—/\$32 000
No. of devices sold in U.S./Outside U.S./List price Dimensions (H x W x D)/Weight	—/—/\$32,000 15×12×15 in./18 lbs	—/—/\$32,000 15 × 12 × 15 in./18 lbs
* shifter overseed on decision	U 2000 200 U-4 Uh COOM No V OloviCo viluone Instato	U 2000 200 U-4 Ub 0000/ No W Ol 100 alvegage
Analytes measured on device	pH, PCO2, PO2, Hct, Hb, SO2%, Na, K, Cl or iCa, glucose, lactate	pH, PCO2, PO2, Hct, Hb, SO2%, Na, K, Cl, iCa, glucose
Parameters calculated on device	BE, TC02, HC03-	BE, TC02, HC03-
Barometric pressure	tracked	tracked
Analytical method(s), technology(ies) employed	pH: direct ISE; PCO2: Severinghaus; PO2: amperometry; Hct: conductivity; Hb & SO2%: optical-reflectance; Na, K, Cl, iCa: direct ISE; glucose, lactate: enzyme/	pH: direct ISE; PCO2: Severinghaus; PO2: amperometry; Hct: conductivity; Hb & SO2%: optical–reflectance; Na, K, Cl, iCa: direct ISE; glucose:
	amperometric	enzyme/amperometric
Device is part of a series of related models		100
User list or group available	yes yes (upon request)	yes (upon request)
Device warranty Loaner devices provided	1 yr, travel and labor, repair or replacement	1 yr, travel and labor, repair or replacement
Average expected life of device	yes 5–7 yrs	yes 5–7 yrs
Open or closed system/External gas tanks required	closed/no	closed/no
For POC testing or laboratory	POC & laboratory	POC & laboratory
POC: Uses disposable prepackaged reagent/Electrode system for analysis	resent	rogent
No. of disposable reagent system units in basic shipment package	reagent 200–500 analyses	reagent 200–500 analyses
No. of samples analyzed per one disposable reagent, electrode system List price per disposable reagent system		
List price per disposable reagent system  Reagent unit storage requirements	\$210–\$275 room temperature	\$210-\$275 room temperature
Shelf life of disposable units	reagents: 18 months room temperature, electrodes: up to 18 months	reagents: 18 months room temperature, electrodes: up to 18 months
Laboratory:		
No. of different disposable reagents required to maintain device	1	1
Max. No. of specific analyte reagents that can reside in device at once Shelf life	1 reagents & electrodes: 18 months; membrane kits: 12–24 months	1 reagents & electrodes: 18 months; membrane kits: 12–24 months
Cost per test/Reagent cost per test	<\$0.11 at 35 analyses per day/<\$0.08 at 35 analyses per day	<\$0.11 at 35 analyses per day/<\$0.08 at 35 analyses per day
Calibrations required	1 & 2 point (automatic)	1 & 2 point (automatic)
Calibration frequency	1 point: 30 or 45 min or with every sample (user selectable); 2 point: 2, 4, or 6 hr	1 point: 30 or 45 min or with every sample (user selectable); 2 point: 2, 4, or 6 hr
Calibrants traceable to NIST standards	(user defined) yes	(user defined) yes
Internal QC program recommended	minimum CLIA recommendations	minimum CLIA recommendations
QC features	L-J plots, statistical calcs., monthly cum. report (onboard, more extensive reporting avail. with Nova Point-of-Care Manager)	L-J plots, statistical calcs., monthly cum. report (onboard, more extensive report- ing avail. with Nova Point-of-Care Manager)
Remote control of device from laboratory	no	no
System can use LOINC to transmit results to LIS How labs get LOINC codes for reagent kits	<u>no</u>	<u>no</u>
Detects clots within analysis chamber	yes	yes
Specimen types suitable for device	whole blood, capillary, mixed venous, arterial, serum plasma	whole blood, capillary, mixed venous, arterial, serum plasma
Acceptable anticoagulants	heparin	heparin
1 ' ''		
Acceptable anticoagulants Sampling technique Suitable for samples from well neonates/Sick neonates Sample size for complete panel of analyte results	heparin aspiration & capillary yes/yes 125 µL	heparin aspiration & capillary yes/yes 125 µL
Acceptable anticoagulants Sampling technique Suitable for samples from well neonates/Sick neonates	heparin aspiration & capillary yes/yes	heparin aspiration & capillary yes/yes
Acceptable anticoagulants Sampling technique Suitable for samples from well neonates/Sick neonates Sample size for complete panel of analyte results Sample size differs with No. of analytes selected Recommended collection device Provides for patient temperature corrected results	heparin aspiration & capillary yes/yes 125 µL yes, standard 3-test micro-panel req. is 60 µL syringe, capill., micro-collect. containers, standard vacuum cont. yes	heparin aspiration & capillary yes/yes 125 µL yes, standard 3-test micro-panel req. is 60 µL syringe, capill., micro-collect. containers, standard vacuum cont. yes
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Acceptable anticoagulants Sampling technique Suitable for samples from well neonates/Sick neonates Sample size for complete panel of analyte results Sample size differs with No. of analytes selected Recommended collection device Provides for patient temperature corrected results Time from sample introduction to result availability Max. No. of patient samples per hr/Max. No. of measured parameters per hr Optimal throughput when calibrated and awaiting specimens Calibration can be interrupted to perform stat sample Contraindications Known interferences Restrictions based on Hct Sampler has self-wiping probe  Time required for maintenance by lab personnel Onboard diagnostics for troubleshooting/Limited to software Diagnostics performed through modem Training & certification program for user  Method of analyst ID in system Response for hardware & software failure/User ID & QC failure/ Calibration & power failure  Supports bar-code scanning of User can search for and review previous patient results on screen Built-in printer/Data port Information on hard copy report  Analyzer connects to Interface standards supported To upload patient & QC results, how analyzer connects to external system Information included in transmission from analyzer to external system Hardware/Software for data management system No. of different management reports system produces Contents downloaded from DMS to analyzer System connected (live installations) to which LISs, HISs  • using screen animation, screen scraping  • using standard HL7 interface	heparin aspiration & capillary yes/yes 125 µL yes, standard 3-test micro-panel req. is 60 µL syringe, capill., micro-collect. containers, standard vacuum cont. yes 52 seconds 50/500 tests 300 tests per hr yes none none none none yes  weekly: <5 min; monthly: <10 min yes/no yes yes (on site)  password with unique user ID No. (optional) self-diag. SW informs & notifies oper. of HW failure; hotline & field support depending on problem/optional lockout w/o user ID; options for QC failure or exceeding scheduled QC interval/ any test that alis QC to lockout for QC failure or exceeding scheduled QC interval/ any test that does not calibrate will not report results & instrument notifies oper. of reason for failure; momentary power interrupts require no recovery—extended power failure results in automatic calib. patient ID yes yes/multiple RS-232 patient ID w/ access. No., entered settings, meas. & calc. results  data management system and/or directly to LIS/HIS ASTM E1381-91 & ASTM 1394-91 (HL7 avail. with external device) direct serial/>500 hospitals inst.; hospital network/>100 inst.  device unique identifier, operator & patient IDs, results, QC identifier, accession No. Pentium with Microsoft Windows 2000/Nova Point-of-Care Manager >60 yes, patient name, passwords >20 >100	heparin aspiration & capillary yes/yes yes/yes, yes/yes, yes/yes, yes, yes, yes, yes, yes, yes, yes,
Acceptable anticoagulants Sampling technique Suitable for samples from well neonates/Sick neonates Sample size for complete panel of analyte results Sample size differs with No. of analytes selected Recommended collection device Provides for patient temperature corrected results Time from sample introduction to result availability Max. No. of patient samples per hr/Max. No. of measured parameters per hr Optimal throughput when calibrated and awaiting specimens Calibration can be interrupted to perform stat sample Contraindications Known interferences Restrictions based on Hct Sampler has self-wiping probe  Time required for maintenance by lab personnel Onboard diagnostics for troubleshooting/Limited to software Diagnostics performed through modem Training & certification program for user  Method of analyst ID in system Response for hardware & software failure/User ID & QC failure/ Calibration & power failure  Supports bar-code scanning of User can search for and review previous patient results on screen Built-in printer/Data port Information on hard copy report  Analyzer connects to Interface standards supported To upload patient & QC results, how analyzer connects to external system Information included in transmission from analyzer to external system No. of different management reports system produces Contents downloaded from DMS to analyzer System connected (live installations) to which LISs, HISs  • using screen animation, screen scraping  • using streen animation, screen scraping  • using proprietary protocol interface	heparin aspiration & capillary yes/yes 125 µL yes, standard 3-test micro-panel req. is 60 µL syringe, capill., micro-collect. containers, standard vacuum cont. yes 52 seconds 50/500 tests 300 tests per hr yes none none no yes weekly: <5 min; monthly: <10 min yes/no yes yes (on site)  password with unique user ID No. (optional) self-diag. SW informs & notifies oper. of HW failure; hotline & field support depending on problem/optional lockout w/o user ID; options for QC failure range from flagging to not reporting test that fails QC to lockout for QC failure or exceeding scheduled QC interval/ any test that does not calibrate will not report results & instrument notifies oper. of reason for failure; momentary power interrupts require no recovery—extended power failure results in automatic calib. patient ID yes yes/multiple RS-232 patient ID w/ access. No., entered settings, meas. & calc. results  data management system and/or directly to LIS/HIS ASTM E1381-91 & ASTM 1394-91 (HL7 avail. with external device) direct serial/>500 hospitals inst.; hospital network/>100 inst.  device unique identifier, operator & patient IDs, results, QC identifier, accession No. Pentium with Microsoft Windows 2000/Nova Point-of-Care Manager >60 yes, patient name, passwords	heparin aspiration & capillary yes/yes   125 µL   yes, standard 3-test micro-panel req. is 60 µL   syringe, capill., micro-collect. containers, standard vacuum cont. yes   52 seconds   50/500 tests   300 tests per hr   yes   none   none   none   none   noo   yes   weekly: <5 min; monthly: <10 min   yes/no   yes   yes (on site)   password with unique user ID No. (optional)   self-diag. SW informs & notifies oper. of HW failure; hotline & field support   depending on problem/optional lockout   w/o user ID; options for QC failure   range from flagging to not reporting test that fails QC to lockout for QC failure   resolts & instrument notifies oper. of reason for failure; momentary power interrupts require no recovery—extended power failure results in automatic calib.   patient ID   yes   yes/multiple RS-232   patient ID   w/ access. No., entered settings, meas. & calc. results   data management system and/or directly to LIS/HIS   ASTM E1381-91 & ASTM 1394-91 (HL7 avail. with external device)   direct serial/>500 hospitals inst.; hospital network/>100 inst.   device unique identifier, operator & patient IDs, results, QC identifier, accession   No.   Pentium with Microsoft Windows 2000/Nova Point-of-Care Manager   >60   yes, patient name, passwords   >20   >100   >500
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	Nova Biomedical	Nova Biomedical
	Sales info@novabiomedical.com	Sales info@novabiomedical.com
	200 Prospect St. Waltham, MA 02454-9141	200 Prospect St. Waltham, MA 02454-9141
Part 8 of 13	800-458-5813	800-458-5813
Name of device/First year sold/No. of analyzers sold in 2007	Stat Profile Critical Care Xpress/2003/—	Stat Profile Critical Care Xpress 3 Plus/2003/—
No. of devices sold in U.S./Outside U.S./List price	—/—/—	<u>-/-/-</u>
Dimensions (H x W x D)/Weight	17.2 × 22.4 × 17.3 in./53 lbs	17.2 × 22.4 × 17.3 in./53 lbs
Analytes measured on device	pH, pCO2, pO2, Hct, Hb, Na, K, Cl, iCa, iMg, lactate, glucose, creatinine, BUN,	pH, pCO2, pO2, co-oximetry
Parameters calculated on device	SO2%, bilirubin, co-oximetry BE, TCO2, HCO3-	BE, TCO2, HCO3-
Parameters calculated on device Barometric pressure	BE, TCU2, HCU3- tracked	BE, TCO2, HCO3- tracked
Analytical method(s), technology(ies) employed	pH: direct ISE; pCO2: Severinghaus; pO2: amperometric; Hct: conductivity; Hb &	pH: direct ISE; pCO2: Severinghaus; pO2: amperometric; co-ox: optical-reflec-
	SO2%: optical-reflectance; Na, K, Cl, iMg, & iCa: direct ISE; lactate, glucose, & creatinine: enzyme/amperometric; BUN: enzyme/ISE; bilirubin, co-ox: optical,	tance
Daviso is part of a series of valued and de-	reflectance	, , , , , , , , , , , , , , , , , , ,
Device is part of a series of related models User list or group available	yes yes (upon request)	yes yes (upon request)
Device warranty	1 yr	1 yr
Loaner devices provided Average expected life of device	no 5–7 yrs	no 5–7 yrs
Open or closed system/External gas tanks required	closed/no	closed/no
For POC testing or laboratory	POC & laboratory	POC_& laboratory
POC:		
Uses disposable prepackaged reagent/Electrode system for analysis No. of disposable reagent system units in basic shipment package	reagent 200–500 analyses	reagent 200–500 analyses
No. of samples analyzed per one disposable reagent, electrode system	<u> </u>	<del>-</del>
List price per disposable reagent system Reagent unit storage requirements	\$294-\$349 no special requirements	\$269 no special requirements
Reagent unit storage requirements Shelf life of disposable units	no special requirements reagents: 18 months (room temp.); electrodes: up to 18 months	no special requirements reagents: 18 months (room temp.); electrodes: up to 18 months
Laboratory: No. of different disposable reagents required to maintain device	1	1
Max. No. of specific analyte reagents that can reside in device at once	20	7
Shelf life Cost per test/Reagent cost per test	reagents & electrodes: 18 months; membrane kits: 12–24 months <\$0.08 at 40 analyses per day/\$0.04 at 40 analyses per day	reagents & electrodes: 18 months; membrane kits: 12–24 months <\$0.08 at 40 analyses per day/\$0.04 at 40 analyses per day
Calibrations required Calibration frequency	1 & 2 point (automatic) 1 point: 30 or 45 min or with every sample (user selectable); 2 point: 2, 3, 4, 5, or	1 & 2 point (automatic) 1 point: 30 or 45 min or with every sample (user selectable); 2 point: 2, 3, 4, 5, or
	6 hr (user defined)	6 hr (user defined)
Calibrants traceable to NIST standards Internal QC program recommended	yes ` minimum CLIA recommendations	yes ` minimum CLIA recommendations
QC features	L-J plots, comparable plot, statistical calculations, monthly cum. report,	L-J plots, comparable plot, statistical calculations, monthly cum. report, onboard,
	onboard, available with external system	available with external system
Remote control of device from laboratory System can use LOINC to transmit results to LIS	yes yes	yes yes
How labs get LOINC codes for reagent kits	package insert	package insert
Detects clots within analysis chamber	yes	yes
Specimen types suitable for device	whole blood, capillary, mixed venous, arterial, venous	whole blood, capillary, mixed venous, arterial, venous
Acceptable anticoagulants Sampling technique	heparin aspiration & capillary	heparin aspiration & capillary
Suitable for samples from well neonates/Sick neonates	yes/yes	yes/yes
Sample size for complete panel of analyte results Sample size differs with No. of analytes selected	210 µL yes, variety of micro-panel options offered & can be customized	210 µL yes, variety of micro-panel options offered & can be customized
Recommended collection device	syringe, capillary, micro-collection, or vacuum collection containers	syringe, capillary, micro-collection, or vacuum collection containers
Provides for patient temperature corrected results Time from sample introduction to result availability	yes 134 sec	yes 61 sec
Max. No. of patient samples per hr/Max. No. of measured	134 sec 22/440	61 sec 32/224
parameters per hr Optimal throughput when calibrated and awaiting specimens	437 tests per hr	190 tests per hr
Calibration can be interrupted to perform stat sample	yes	yes
Contraindications Known interferences	no	no
Restrictions based on Hct	none no	none no
Sampler has self-wiping probe	yes	yes
Time required for maintenance by lab personnel	daily: none; weekly: <5 min; monthly: <10 min	daily: none; weekly: <5 min; monthly: <10 min
Onboard diagnostics for troubleshooting/Limited to software	yes/no	yes/no
Diagnostics performed through modem Training & certification program for user	yes yes (3 days on site)	yes yes (3 days on site)
Method of analyst ID in system Response for hardware & software failure/User ID & QC failure/	multilevel password with unique user ID No. HW & SW: self-diagnostic SW informs and classifies operator of HW & SW	multilevel password with unique user ID_No. HW & SW: self-diagnostic SW informs and classifies operator of HW & SW
Calibration & power failure	failure; hotline & field support avail./user ID: optional setup feature; lock out	failure; hotline & field support avail./user ID: optional setup feature; lock out
	without proper ID; QC: optional setup & options range from flagging QC failure to not reporting last test that fails QC/calibration: results not reported w/	without proper ID; QC: optional setup & options range from flagging QC failure to not reporting last test that fails QC/calibration: results not reported w/
	failures, instrument notifies operator of failure reason; power: momentary power	failures, instrument notifies operator of failure reason; power: momentary power
Supports bar-code scanning of	interrupts require no recovery; instrument automatically calibrates operator & patient IDs	interrupts require no recovery; instrument automatically calibrates operator & patient IDs
User can search for and review previous patient results on screen	yes	yes
Built-in printer/Data port	yes/ Ethernet, USB	yes/Ethernet, USB
Information on hard copy report	patient ID & accession Nos., entered settings, measured & calculated results	patient ID & accession Nos., entered settings, measured & calculated results
	· · · · · · · · · · · · · · · · · · ·	
Analyzer connects to Interface standards supported	directly to LIS/HIS, DMS that in turn connects to LIS/HIS ASTM E1394-91, ASTM 1381-91, HL7	directly to LIS/HIS, DMS that in turn connects to LIS/HIS ASTM E1394-91, ASTM 1381-91, HL7
To upload patient & QC results, how analyzer connects to	modem dial-in, hospital network	modem dial-in, hospital network
external system Information included in transmission from analyzer to external system	device unique identifier, operator & patient IDs, results, QC identifier	device unique identifier, operator & patient IDs, results, QC identifier
Hardware/Software for data management system	full-featured onboard DMS capability, external DMS also avail.	full-featured onboard DMS capability, external DMS also avail.
No. of different management reports system produces Contents downloaded from DMS to analyzer	>30 valid control Nos., valid operator IDs, patient demographics	>30 valid control Nos., valid operator IDs, patient demographics
	oposato noo, pations domographico	., Jest and respectively administration
System connected (live installations) to which LISs, HISs  using screen animation, screen scraping	_	_
using standard HL7 interface	-	-
using proprietary protocol interface Use a third-party interfacing tool, engine for LIS, HIS interfaces	most analyzers interfaced to LIS using LIS vendor's drivers	most analyzers interfaced to LIS using LIS vendor's drivers
	,	· · · · · · · · · · · · · · · · · · ·
Distinguishing features (provided by vendor)	largest whole blood critical care menu (20 tests), BUN, iMg available exclusively	onboard QC cartridge provides sufficient QC materials for 30-day auto QC
I	from Nova; onboard co-oximeter	analysis; allows user to program frequency and select report protocol with full QC SMD; meets NCCLS POCT 1-A standards (more shared features listed under
		Critical Care Xpress)

	in via e bieed gas analyzer	
	Opti Medical Systems Inc.	Opti Medical Systems Inc.
	Sales Department	Sales Department
	235 Hembree Park Drive Roswell, GA 30076	235 Hembree Park Drive Roswell, GA 30076
Part 9 of 13	<b>800-490-6784</b> www.optimedical.com	800-490-6784 www.optimedical.com
Name of device/First year sold/No. of analyzers sold in 2007	OPTI R/2006/—	OPTI CCA Blood Gas Analyzer/1998/—
No. of devices sold in U.S./Outside U.S./List price Dimensions (H x W x D)/Weight	//- 4.7 × 14.2 × 14 in./4.5 kg (10 lbs) without fluid pack	-/ $-$ /\$10,200 4.7 × 14.2 × 9 in./10 lbs without battery, 12 lbs with battery
Difficusions (if X w X b)/ weight	4.7 × 14.2 × 14 III.74.3 kg (10 IDS) Without hald pack	4.7 × 14.2 × 9 III./ TO IDS WILLIOUS DALLETY, 12 IDS WILLI DALLETY
Analytes measured on device Parameters calculated on device	pH, pCO2, pO2, tHb, Na, K, iCa, SO2 Hct, HCO3, BE, BEecf, BEact, BB, tCO2, st. HCO3, st. pH, O2ct, cH+, AaDO2, AG,	pH, pCO2, pO2, Na, K, CI, iCa, tHb, SO2, glucose Hct, HCO3, BE, BEecf, BEact, BB, tCO2, st. HCO3, st. pH, O2ct, cH+, AaDO2, AG, p50,
	p50, nCa++	nGa++
Barometric pressure Analytical method(s), technology(ies) employed	measured pH, pCO2, pO2, Hb, Na, Cl, iCa, K: optical fluorescence	measured pH, pCO2, pO2, Na, Cl, iCa, K, glucose: optical fluorescence; tHb, SO2: optical
		reflectance
Device is part of a series of related models User list or group available	yes (OPTI CCA) yes (upon request)	yes, OPTI Series yes (through Opti Medical sales dept.)
Device warranty	one-year warranty on new analyzers from date analyzer is placed into service	1 yr (service contract available for subsequent years)
Loaner devices provided Average expected life of device	yes 5–7 yrs	yes >7 yrs
Open or closed system/External gas tanks required For POC testing or laboratory	closed/no POC & laboratory	closed/no POC & laboratory
For For testing or laboratory	roc & laudiatory	FOU & labulatury
POC: Uses disposable prepackaged reagent/Electrode system for analysis	reagent/multiuse cartridge	single-use cassettes/optode
No. of disposable reagent system units in basic shipment package	4	25 individual packaged cassettes
No. of samples analyzed per one disposable reagent, electrode system List price per disposable reagent system	50 	1 depends on cassette configuration–contact Opti Medical
Reagent unit storage requirements	room temperature	room temperature
Shelf life of disposable units	reagents: 7 months	cassette: 6–12 months, depends on type
Laboratory:		<u>,</u>
No. of different disposable reagents required to maintain device Max. No. of specific analyte reagents that can reside in device at once	2 8	1
Shelf life	7 months	cassette: 6–8 months, depends on type
Cost per test/Reagent cost per test	<del>-</del>	depends on volume—contact Opti Medical
Calibrations required	2 point (automatic)	1 point (automatic)
Calibration frequency Calibrants traceable to NIST standards	one point: after every sample or 30 minutes; two point: every 3 hours yes	with each cassette yes
Internal QC program recommended	3 levels automatic QC run at least once per day	3 levels liquid with change of cassette lot No., 2-month intervals electronic QC-1
		level per 8 hrs of operation; elec. & liquid statistical calcs., L-J with external system
QC features Remote control of device from laboratory	auto QC, statistics reports no	stores 1 month—3 levels onboard of each (elec. & liq.) no
System can use LOINC to transmit results to LIS	no	no
How labs get LOINC codes for reagent kits	_	_
Detects clots within analysis chamber	yes	yes
Specimen types suitable for device Acceptable anticoagulants	plasma, serum, w. blood, capill., mixed ven., arterial, venous heparin	plasma, serum, w. blood, capill., mixed ven., arterial, venous heparin
Sampling technique	aspiration	aspiration
Suitable for samples from well neonates/Sick neonates Sample size for complete panel of analyte results	yes/yes 125 µL	yes/yes 125 μL
Sample size differs with No. of analytes selected	no	no no
Recommended collection device Provides for patient temperature corrected results	heparinized syringe, capillary, comfort sampler yes	heparinized syringe, capillary, Comfort Sampler yes
Time from sample introduction to result availability Max. No. of patient samples per hr/Max. No. of measured	~1 min 24/192	~1 min from sample aspiration 24/192
parameters per hr	24/192	24/192
Optimal throughput when calibrated and awaiting specimens Calibration can be interrupted to perform stat sample	24 tests per hr no	24 no
Contraindications	no	none
Known interferences Restrictions based on Hct	no	none no (Hct calculated based on meas. Hb)
Sampler has self-wiping probe	no	no, single use
Time required for maintenance by lab personnel	weekly: 1 min; quarterly: 5 min	weekly: 1 min; quarterly: 5 min
Onboard diagnostics for troubleshooting/Limited to software	yes/no	yes/no
Diagnostics performed through modem Training & certification program for user	no yes (1 to 2 days on site)	no yes (on site as needed)
Method of analyst ID in system Response for hardware & software failure/User ID & QC failure/	1D code entry HW & SW: error message/user ID: —; QC: failure message/calibration: error	oper. ID and/or secure 4-digit PIN No. for 300 oper. (customizable) identified on display & w/ diagnostic routine/user ID: identified on display
Calibration & power failure	message with retry; power: memory recovery	(missing or not valid), QC: on display (report flagging param. high or low)/calib: on display prior to sample aspir., power: low batt. identified on display–warning;
		automatic customized QC lockout
Supports bar-code scanning of	oper. & patient IDs, reag. lot No., QC ranges, cassette lot No., expiration, factory calibration info. & cassette type	oper. & patient IDs, reag. lot No., QC ranges, cassette lot No., expiration, factory calibration info. & cassette type
User can search for and review previous patient results on screen	yes	yes
Built-in printer/Data port	yes/RS-232, Ethernet	yes/RS-232
Information on hard copy report	patient ID, number, results, patient demographics (customized)	customizable, can incl. input values, meas. values, calc. values
Analyzer connects to	directly to LIS/HIS, DMS that in turn connects to LIS/HIS	directly to LIS/HIS, DMS that in turn connects to LIS/HIS
Interface standards supported	ASTM 1394, ASTM 1238, ASC II	
To upload patient & QC results, how analyzer connects to	direct serial, hospital network	mobile ASTM, ASTM, ASCII direct serial
external system Information included in transmission from analyzer to external system	device unique identifier, oper. & patient IDs, results, QC identifier, all info.	device unique identifier, oper. & patient IDs, results, QC identifier, all info. perti-
	pertinent to patient & QC data	nent to patient & QC data
Hardware/Software for data management system	LDS Aegis	LDS Aegis
No. of different management reports system produces	-	40
Contents downloaded from DMS to analyzer		none
System connected (live installations) to which LISs, HISs		none
using screen animation, screen scraping     using standard HL7 interface		none Meditech, McKesson, Cerner, Siemens, others (call Opti Medical for updated list)
using proprietary protocol interface Use a third-party interfacing tool, engine for LIS, HIS interfaces	— LDS Aegis	none LDS Aegis
Distinguishing features (provided by vendor)	three independent levels of auto QC, stable optical fluorescence technology, multiple use cassette, low maintenance, and color touch screen	ColorTouch screen display; meas. tHb/S02; 8-month shelf life of cass. stored at room temp. simplifies logistics; auto. sample asp. from syringe and capill.;
		extensive list of input params.; onboard printer

	Radiometer America Inc. Telesales Department info@radiometeramerica.com	Radiometer America Inc. Telesales Department info@radiometeramerica.com
Part 10 of 13	810 Sharon Dr., Westlake, OH 44145 800-736-0600 ext. 333 www.radiometeramerica.com	810 Sharon Dr., Westlake, OH 44145 800-736-0600 ext. 333 www.radiometeramerica.com
Name of device/First year sold/No. of analyzers sold in 2007 No. of devices sold in U.S./Outside U.S./List price	ABL 5/1994/— —/—/—	ABL 800 Series/2004/— —/—/depends on configuration
Dimensions (H x W x D)/Weight	13 × 13 × 8 in./18 lbs	22 × 28 × 21 in./70 lbs
Analytes measured on device  Parameters calculated on device	pH, pC02, p02  Hct, 02SAT, BE, TC02, HC03-, ct02, AaDp02, SBE, ABE, SBC, pC02(T), ctC02(P),	pH, pCO2, pO2, Hb, Na, K, Cl, iCa, lactate, glucose, bilirubin, fetal Hb, O2Hb, MetHb, RHb, COHb, O2SAT, creatinine Hct, BE, TCO2, HCO3-, plus 40 additional parameters
Barometric pressure	pH(T), cH+(T), pO2(T) measured	measured
Analytical method(s), technology(ies) employed	pH: pH-sensitive glass (ISE); pCO2, pO2: ISE	pH: pH-sensitive glass (ISE); pCO2, pO2, Na, CI, iCa, K, creatinine: ISE; Hct: calc. from meas. Hb, bilirubin; Hb: optical, multiwavelength anal., intra-cuvette
Device is part of a series of related models User list or group available	no yes (through local sales representative)	ultrasonic hemolysis; lactate, gluc.: ISE w/enzyme yes, ABL 800 Series yes (through local sales representative)
Device warranty  Loaner devices provided	1 yr, parts, labor, & travel ves	2 yrs, parts, labor, & travel yes
Average expected life of device Open or closed system/External gas tanks required	20 yrs with full support closed/yes	20 yrs with full support closed/yes (low-pressure, premixed)
For POC testing or laboratory	POC & laboratory	POC & laboratory (products on mobile carts for POCT/NPT)
POC: Uses disposable prepackaged reagent/Electrode system for analysis No. of disposable reagent system units in basic shipment package	_	_
No. of samples analyzed per one disposable reagent, electrode system List price per disposable reagent system	Ξ	=
Reagent unit storage requirements Shelf life of disposable units	_	_
Laboratory: No. of different disposable reagents required to maintain device	4	4
Max. No. of specific analyte reagents that can reside in device at once Shelf life	4 4 reagent, electrode, membrane kit, cartridge: 2+ yrs	4 4 reagent, electrode, membrane kit, cartridge: 2+ yrs
Cost per test/Reagent cost per test	depends on sample volume & any extra incl. items/same	depends on sample volume & any extra incl. items/same
Calibrations required Calibration frequency	1 & 2 point (automatic) 1 point: 1/2 hr; 2 point: 4 hrs	1 & 2 point (automatic) 1 point: 1/2 hr–CLIA GAS, 4 hrs—mftr.; 2 point: every 8 hrs
Calibrants traceable to NIST standards Internal QC program recommended QC features	yes depends on hospital management & inspection agency statistical calculations (available with RADIANCE data management system)	yes depends on hospital management & inspection agency L-J plots, comparable plot (via DMS), statistical calcs., auto QC, monthly cum.
Remote control of device from laboratory	yes	reports (onboard & avail. w/ external system, PC download to Excel) yes
System can use LOINC to transmit results to LIS How labs get LOINC codes for reagent kits	yes —	yes —
Detects clots within analysis chamber Specimen types suitable for device	yes whole blood, capill., mixed venous, arterial, venous	yes whole blood, capill., mixed venous, arterial, venous
Acceptable anticoagulants Sampling technique	heparin, balanced heparin aspiration	heparin, electrolyte-balanced heparin autoaspiration, syringe &/or capillary tube &/or test tube
Suitable for samples from well neonates/Sick neonates Sample size for complete panel of analyte results	yes/yes 85 μL	yes/yes 95 µL for 17 measured parameters
Sample size differs with No. of analytes selected  Recommended collection device	yes, optional 35 µL for pH only syringe or capillary	yes, with fewer measured parameters, smaller micro-modes available from 35 µL syringe or capillary
Provides for patient temperature corrected results Time from sample introduction to result availability	yes ~1 min	yes ~1 min (depends on tests ordered)
Max. No. of patient samples per hr/Max. No. of measured parameters per hr	30/90	25/425
Optimal throughput when calibrated and awaiting specimens Calibration can be interrupted to perform stat sample Contraindications	30 per hr yes none	25 per hr yes none
Known interferences Restrictions based on Hct	halothane	halothane, thiocyanic & glycolic acids no
Sampler has self-wiping probe	no	yes
Time required for maintenance by lab personnel Onboard diagnostics for troubleshooting/Limited to software	monthly: as needed; annually: 5 hrs yes/no	monthly: as needed; annually: dependent on version yes/no
Diagnostics performed through modem Training & certification program for user	no yes (on site)	yes (on site)
Method of analyst ID in system Response for hardware & software failure/User ID & QC failure/	operator ID entry (optional) system messages	customizable onboard keyboard, bar code system message with customized ("traffic light") visual & audible signals,
Calibration & power failure Supports bar-code scanning of	none	parameter status bar operator & patient IDs, reag. & QC lot Nos., exp., soft. keys
User can search for and review previous patient results on screen Built-in printer/Data port Information on hard copy report	no yes/RS-232, optional patient info., meas. & calc. results, system messages	yes, multitask searches while analyzer performs other functions yes/RS-232, Ethernet/USB patient info./demographics, patient therapy settings, meas. & calc. results,
		system messages, reference & critical ranges
Analyzer connects to	RADIANCE STAT information management system that connects to LIS/HIS or directly to LIS/HIS  ASTM 1994 8 1999 period	RADIANCE STAT information management system that connects to LIS/HIS or directly to LIS/HIS  ACTIMINITY cories DOCTAN metabolic TCD/ID
Interface standards supported To upload patient & QC results, how analyzer connects to external system	ASTM 1394 & 1238, serial direct serial/thousands; modem dial-in/hundreds; real-time	ASTM, HL7, serial, POCT1A, network TCP/IP direct serial/thousands of hosp. installed; modem dial-in/hundreds; hospital network/hundreds; real time wireless-capable
Information included in transmission from analyzer to external system	device unique identifier, operator & patient IDs, results, QC identifier, as per ASTM protocols	device unique identifier, operator & patient IDs, results, QC identifier, per ASTM/ HL7 standards plus calib. & analyzer status info.
Hardware/Software for data management system  No. of different management reports system produces  Contents downloaded from DMS to englyzer	external RADIANCE user definable	internal system + optional external system, RADIANCE user-definable searches/reports
Contents downloaded from DMS to analyzer System connected (live installations) to which LISs, HISs  using screen animation, screen scraping	— Cerner, Meditech, Misys, others	— Cerner, Meditech, Misys, others
using standard HL7 interface     using proprietary protocol interface	none none	available from analyzer—LIS/HIS vendors can use none
Use a third-party interfacing tool, engine for LIS, HIS interfaces	no (use interface templates)	
Distinguishing features (provided by vendor)	provides basic blood gases (pH, pCO2, pO2) test profile; easy to use with minimal maintenance; low cost of operation via standby usage; fast restart, in 2 min, out of standby mode	FLEXQ automated inlet part of automatic system; bilirubin and fetal Hb meas. on whole blood with no extra sample volume, low maintenance and cost of operation; interference-free accuracy; FLEXMODE—small automated microsample mode options with no loss in performance specs. (conserves blood); flexible/modular platform running on Windows XP (embedded), Pentium processors, automatic QC, autocal, remote support

	iii viti o blood gas alialyzer.	
Part 11 of 13	Radiometer America Inc. Telesales Department info@radiometeramerica.com 810 Sharon Dr. Westlake, OH 44145 800-736-0600 ext. 333 www.radiometeramerica.com	Radiometer America Inc. Telesales Department info@radiometeramerica.com 810 Sharon Dr. Westlake, OH 44145 800-736-0600 ext. 333 www.radiometeramerica.com
Name of device/First year sold/No. of analyzers sold in 2007 No. of devices sold in U.S./Outside U.S./List price Dimensions (H x W x D)/Weight	ABL 80/2006/— —/—/depends on configuration $16 \times 9 \times 11$ in./19 lbs	NPT7/2001/— —/—/depends on configuration $10 \times 13 \times 16$ in./25 lbs
Analytes measured on device	pH, pCO2, pO2, Hct, Na, K, iCa, Cl-, Glu [Hb, O2SAT, O2Hb, COHb, MetHb, HHb]*	pH, pCO2, pO2, Hb, O2SAT, O2Hb, COHb, MetHb, HHb
Parameters calculated on device	Hb, O2SAT, TCO2, HCO3-, ctO2 (a-v), ctO2, anion gap (K+), cCa2+ (7.40), cBase (B), ABE, SBE, others	Hct, ABE, SBE, TCO2, HCO3-, SBC, TO2, p50
Barometric pressure Analytical method(s), technology(ies) employed	pH, pCO2, pO2, Na, K, iCa, Cl, Glu: thick film; amperometric/potentiometric technology; HCT: conductivity	yes pH, pCO2, pO2, oximetry: patented dry optical technology
Device is part of a series of related models User list or group available Device warranty Loaner devices provided Average expected life of device Open or closed system/External gas tanks required For POC testing or laboratory	yes yes (through local sales representative) 1 yr parts, labor, & travel, with service plans available after yr 1 yes analyzer: 10+ yrs closed/no POC testing, laboratory	no yes (through local sales representative) 1 yr, parts, labor, & travel or depot loaner service yes 10+ yrs closed/no POC testing, laboratory
POC: Uses disposable prepackaged reagent/Electrode system for analysis No. of disposable reagent system units in basic shipment package No. of samples analyzed per one disposable reagent, electrode system List price per disposable reagent system Reagent unit storage requirements Shelf life of disposable units	electrode (multiuse cartridge) 1 50/100/200/300 depends on configuration & GPO affiliation room temperature 90–100 days	dry optical system multiuse cartridge contains 30 single-use cuvettes 30 depends on configuration room temperature 24 months
Laboratory: No. of different disposable reagents required to maintain device Max. No. of specific analyte reagents that can reside in device at once Shelf life Cost per test/Reagent cost per test	2 2 reagent: 100 days, cartridge: 90 days depends on configuration/same	1 1 24 months depends on volume
Calibrations required Calibration frequency Calibrants traceable to NIST standards Internal QC program recommended QC features	1 & 2 point (manual & automatic) 1 point: with each test; 2 point: 8 hrs (user definable) yes QC material according to CLIA, CAP, JCAHO L-J plots, statistical calcs., monthly cum. (onboard–current mean, STD, CV%) reports (onboard & available with external system, PC download to Excel)	2-level check is performed as part of QualityGuard system (manual & automatic) — yes QualityGuard incl. a 2-level check, system check & incl. meas. check QualityGuard information onboard or available with external system, L-J plot and QC statistics, also available on external DMS
Remote control of device from laboratory System can use LOINC to transmit results to LIS How labs get LOINC codes for reagent kits	yes yes	no yes —
Detects clots within analysis chamber Specimen types suitable for device Acceptable anticoagulants Sampling technique Suitable for samples from well neonates/Sick neonates Sample size for complete panel of analyte results Sample size differs with No. of analytes selected Recommended collection device Provides for patient temperature corrected results Time from sample introduction to result availability Max. No. of patient samples per hr/Max. No. of measured parameters per hr Optimal throughput when calibrated and awaiting specimens	yes whole blood, capillary, mixed venous, arterial, venous heparinized, electrolyte balanced heparin aspiration yes/yes 70 μL no syringe or capillary tube yes 90 sec 30/270 30 tests per hr	yes whole blood, capillary, mixed venous, arterial, venous heparinized whole blood aspiration yes/yes 90 µL no heparinized syringe or capillary tube yes 60 sec 30/270 30 tests per hr
Calibration can be interrupted to perform stat sample Contraindications	yes none	no
Known interferences Restrictions based on Hct Sampler has self-wiping probe	no	intralipid (concentrations over 4 vol%), fluoroscein no no, probe disposed of after measurement
Time required for maintenance by lab personnel Onboard diagnostics for troubleshooting/Limited to software Diagnostics performed through modem	no  yes/no no	yes/no
Training & certification program for user	yes (on site)	yes
Method of analyst ID in system Response for hardware & software failure/User ID & QC failure/ Calibration & power failure	customizable onboard keyboard, bar code system message with customized ("traffic light") visual & audible signals, parameter status bar	optional/bar code or manual system messages with visual signals
Supports bar-code scanning of User can search for and review previous patient results on screen Built-in printer/Data port Information on hard copy report	operator & patient IDs, reag. & QC lot Nos., exp., soft. keys yes yes/RS-232, Ethernet/USB patient info./demographics, patient therapy settings, meas. and calc. results, system messages, reference and critical ranges	operator & patient IDs, QC lot No. yes yes/RS-232, Ethernet patient info, patient therapy settings; measured and calculated parameter results; system messages; reference ranges; cartridge lot & cartridge expiration date
Analyzer connects to	RADIANCE STAT analyzer management system that connects to LIS/HIS or directly to LIS/HIS	RADIANCE STAT analyzer management system that connects to LIS/HIS or directly to LIS/HIS
Interface standards supported To upload patient & QC results, how analyzer connects to external system Information included in transmission from analyzer to external system Hardward Software for data management system	ASTM, HL7, serial, network, TCP/IP serial, Ethernet  device unique identifier, operator & patient IDs, results, QC identifier RADIANCE	ASTM serial, Ethernet  device unique identifier, oper. & patient IDs, results, QC identifier
Hardware/Software for data management system  No. of different management reports system produces	user definable	PCM/CIA—internal DM or external DM user definable
Contents downloaded from DMS to analyzer System connected (live installations) to which LISs, HISs  using screen animation, screen scraping using standard HL7 interface using proprietary protocol interface	Cerner, Meditech, Misys, others available from analyzer—LIS/HIS vendors can use none	LIS vendors completing interface requirements  — — — —
Use a third-party interfacing tool, engine for LIS, HIS interfaces	no (use interface templates)	no (use interface templates)
Distinguishing features (provided by vendor)	portable, true battery operation; fast startup/warmup and analysis time; simple and easy-to-use system * pending FDA clearance	dry optical technology, unique in the measurement of blood gases and full co-oximetry; maintenance-free; no cartridge preparation; QualityGuard; patient results in one minute

	iii viti o blood gas alialyzers	
Part 12 of 13	Roche Laurence J. Healy laurence.healy@roche.com 9115 Hague Rd. Indianapolis, IN 46250 800-428-5076 us.labsystems.roche.com	Roche Laurence J. Healy   laurence.healy@roche.com 9115 Hague Rd. Indianapolis, IN 46250 800-428-5076 us.labsystems.roche.com
Name of device/First year sold/No. of analyzers sold in 2007 No. of devices sold in U.S./Outside U.S./List price Dimensions (H x W x D)/Weight	Roche OMNI Modular System/1996/— —/—/\$29,900-\$56,200 16.5 × 21 × 18.5 in./88 lbs	Roche cobas b 221 system/2004/— —/—/\$44,400-\$63,700 23×20×23.6 in./99 lbs (w/o solutions and AutoQC)
Analytes measured on device	pH, pCO2, pO2, Hct, Hb, Na, K, Cl, iCa, lactate, glucose, BUN, co-ox values: O2Hb, COHb, SulfHb, HHb, metHb	pH, pCO2, pO2, Hct, Hb, Na, K, Cl, iCa, lactate, glucose, BUN, bilirubin, pH pleural flud
Parameters calculated on device	40+ parameters, including BE, BB, HCO3-, TCO2, SO2, NiCa++, ctO2, pSO, shunt, AG, OSM (call Roche for list)	Hb, Hct, O2SAT, BE, TCO2, HCO3-
Barometric pressure Analytical method(s), technology(ies) employed	measured pH: ion selective galvanometric; pCO2, pO2: ion selective membrane; Hct: conductivity; Hb: spectrophotometry; Na, Cl, iCa, K: ion selective potentiometry; lactate: lact. oxidase enzyme; glucose: glucose oxidase enzyme; BUN: urease enzyme	recorded or measured pH: electrode ion selective galvanometric; pCO2, pO2: electrode ion selective membrane; Hct: conductivity; Hb: co-ox spectrophotometry; Na, Cl, iCa, K: ion selective potentiometry; lactate, glucose, BUN: MSS sensor enzyme
Device is part of a series of related models User list or group available Device warranty	yes, models 1–9 yes (through Roche sales dept.) 1 yr (service contract available for subsequent years)	yes, 6 models in series yes (via local sales representative) 1 yr (parts and services warranty)
Loaner devices provided Average expected life of device	yes >7 yrs	no 7 yrs
Open or closed system/External gas tanks required For POC testing or laboratory	closed/no POC & laboratory (transportable on cart system)	closed/no POC & laboratory
POC: Uses disposable prepackaged reagent/Electrode system for analysis No. of disposable reagent system units in basic shipment package No. of samples analyzed per one disposable reagent, electrode system	Ξ	reagent and electrode depends on model, contact Roche dependent on use
List price per disposable reagent system Reagent unit storage requirements Shelf life of disposable units	Ξ	room-temperature storage 12 months (reagents)/18 months (electrodes)
Laboratory: No. of different disposable reagents required to maintain device	depends on model, contact Roche	depends on model, contact Roche
Max. No. of specific analyte reagents that can reside in device at once Shelf life	reagents: 1 yr	3 reagent: 1 year; electrode: 18 months onboard; membrane kit: na, cartridge kit: na
Cost per test/Reagent cost per test  Calibrations required	depends on sample volume/same  1 & 2 point (automatic)	volume dependent/volume dependent  1 & 2 point (automatic)
Calibration frequency Calibrants traceable to NIST standards	1 point: 30 min and with each sample; 2 point: selectable 4–12 hrs yes	1 point: 30 min; 2 point: 8 hrs yes
Internal QC program recommended QC features	1 liquid QC sample per 8 hrs of operation AutoQC sampling, L-J plots, statistical calcs., monthly cum. reports (onboard & external with DataCare POC software), multirules, auto. lock/unlock of individual tests based on QC criteria	CAP and JCAHO guidelines L-J plots, comparable plot, lot-to-lot comparisons, statistical calcs., monthly cum. reports, onboard, eQAP
Remote control of device from laboratory System can use LOINC to transmit results to LIS How labs get LOINC codes for reagent kits	yes no —	yes yes Web, package insert
Detects clots within analysis chamber Specimen types suitable for device Acceptable anticoagulants Sampling technique Suitable for samples from well neonates/Sick neonates Sample size for complete panel of analyte results Sample size differs with No. of analytes selected Recommended collection device Provides for patient temperature corrected results	yes plasma, serum, w. blood, capillary, mixed venous, arterial, venous heparin, lithium aspiration, injection yes/yes 160 µL for full panel, 40 µL per module yes, 40 µL per module, ie: pH/BG, electrolytes, co-ox, metabolites syringe, capillary, microsampler	yes plasma, serum, whole blood, capillary, arterial, venous EDTA, heparin, citrate aspiration, injection, capillary transfer & fill, microsamples yes/yes 200 μL for full panel yes, BG: 40 μL; ISE: 40 μL; co-ox 44 μL, glucose, lactate, BUN: 75 μL
Time from sample introduction to result availability Max. No. of patient samples per hr/Max. No. of measured parameters per hr	yes ~1 min (depends on tests analyzed) 40/490 tests per hr	~1 min (test dependent) 30 patients per hr (full panel)/360 tests per hr
Optimal throughput when calibrated and awaiting specimens Calibration can be interrupted to perform stat sample Contraindications	40 samples per hr yes none	30 patients per hr (full panel) yes no
Known interferences Restrictions based on Hct Sampler has self-wiping probe	none no (automatically checks Hct: tHb ratio) no	none no yes
Time required for maintenance by lab personnel Onboard diagnostics for troubleshooting/Limited to software Diagnostics performed through modem	weekly: 5 min; quarterly: 5 min yes/no yes, with OMNI-Link via network can remotely control, real-time continuously monitor, activate calib., QC sampling (with AutoQC module), and activate troubleshooting routines remotely	daily: 2 min, monthly: 5 min, quarterly: 5 min yes/no yes
Training & certification program for user  Method of analyst ID in system	yes (on site)  4-level password system for 200 operators	yes (2.5 days on site)  32-level password system (customizable)
Response for hardware & software failure/User ID & QC failure/ Calibration & power failure	identified on screen & w/ diagnostic routine/user ID: on screen w/ msg., QC: on screen-report w/ high-low flagging & multirule/calib.: identified on display w/ easy-to-read icons, auto. lockout of failed QC test, power: recorded in activities log, automatic customizable QC lockout of tests	HW: identified onscreen & w/ diagnostic routine; SW: onscreen w/ msg./ user ID: identified onscreen; QC: onscreen report w/ high/low flagging, lockout capabilities/calibration: onscreen reporting w/ lockout capabilities; power: recorded in activities log
Supports bar-code scanning of User can search for and review previous patient results on screen Built-in printer/Data port Information on hard copy report	oper. & patient identifiers, reag. & electrode lot Nos., QC ranges, expir. yes (up to 50,000 online, onboard analyzer) yes/RS-232, parallel, Ethernet customizable, can incl. input values, meas. values, calc. values	operator & patient IDs, reagent lot No., RF w/transponders, expir. yes yes/RS-232, parallel, Ethernet options can be customized; direct & measured parameters
Analyzer connects to	data management system, which connects to LIS/HIS; directly to LIS/HIS (both options)	data management system, which connects to LIS/HIS; data management, which cannot further transmit data; directly to LIS/HIS
Interface standards supported To upload patient & QC results, how analyzer connects to external system	ASTM 1394, ASTM 1238, HL7 (DataCare available) direct serial, hospital network, real-time wireless (RF)	ASTM 1394, HL7, USB port direct serial, hospital network
Information included in transmission from analyzer to external system Hardware/Software for data management system	device unique identifier, oper. & patient IDs, results, QC identifier Roche OMNI has onboard DM capabilities; DataCare POC software is available as a client/server to connect OMNI analyzers	device unique identifier, oper. & patient IDs, results, QC identifier MAS RALS-Plus, DataCare POC
No. of different management reports system produces Contents downloaded from DMS to analyzer System connected (live installations) to which LISs, HISs	40 valid control values, valid operator IDs, patient demographics	50 (RALS-Plus), 40 (DataCare POC) valid control values, valid operator IDs, critical patient results
using screen animation, screen scraping     using standard HL7 interface     using proprietary protocol interface	none Meditech, McKesson, Cerner, SMS (call Roche for updated list) Kaiser Permanente	
Use a third-party interfacing tool, engine for LIS, HIS interfaces	Dawning, Cloverleaf, Data Innovations (not required but can use)  Roche AutoQC for automatic and precise meas. of QC material following	Data Innovations  EDA-510/k)-cleared pH plaural fluid results: 42-day ophoard reagent packs:
Distinguishing features (provided by vendor)	Roche AutoQC for automatic and precise meas. of QC material following all regs.; reduces labor and eliminates preanalytical variables; liquid calib. eliminates hazardous gas tanks	FDA-510(k)-cleared pH pleural fluid results; 42-day onboard reagent packs; Roche AutoQC with up to 40 days of QC covered; screen sharing and remote protected access with OMNI-Link and Axeda instrument software

In vitro	blood	gas anal	vzers

	Siemens Healthcare Diagnostics Inc.	Siemens Healthcare Diagnostics Inc.
	1717 Deerfield Road	1717 Deerfield Road
	Deerfield, IL 60015-0778 800-255-3232	Deerfield, IL 60015-0778 800-255-3232
Part 13 of 13	www.siemens.com/diagnostics	www.siemens.com/diagnostics
Name of device/First year sold/No. of analyzers sold in 2007	RAPIDPoint 400 Series/2001/—	RAPIDLab 1200 Series/2005/—
No. of devices sold in U.S./Outside U.S./List price	_/_/_	_/_/_
Dimensions (H x W x D)/Weight	21.5 × 11.5 × 16 in./34 lbs	22.75 × 20.5 × 21 in./65–68 lbs
Analytes measured on device	pH, pCO2, pO2, Hct, Na+, K+, CI-, Ca++, tHB, FO2Hb, FCOHb, FMetHb, FHHb,	pH, pCO2, pO2, tHb, Na+, K+, Cl-, iCa++, lactate, glucose, FO2Hb, FCOHb, FMetHb,
Parameters calculated on device	glucose HCO3-act, HCO3-std, BE(B), BE(ecf), ctCO2, Ca++(7.4), RI(T), O2SAT, PO2/FIO2,	FHHb, total neonatal bilirubin HCO3-act, HCO3-std, BE(B), BE(ecf), ctCO2, Ca++(7.4), RI(T), O2SAT, PO2/FIO2,
	AnGAP, s02, B02, p02(A-a)(T), p02(a/A)(T), p50, Qsp/Qt(T), ct02(Hb), ct02(a), ct02(v), ct02(V), ct02(a-v), D02, V02, others	AnGAP, s02, B02, p02(A-a)(T), p02(a/A)(T), p50, Qsp/Qt(T), ct02(Hb), ct02(a), ct02(v), ct02(V), ct02(a-v), D02, V02, others
Barometric pressure	recorded	measured, tracked
Analytical method(s), technology(ies) employed	pH, Na, Cl, iCa, K: potentiometry using ISE; pCO2: potentiometry based on Severinghaus; pO2: amperometric meas. (Clark); glucose: amperometric-glucose	pH: potentiometry; pCO2: Severinghaus electrochemical; pO2: amperometric; Hct: calculated; tHb: spectrophotometric; Na, Cl, iCa, K: ISE; lactate: lactate
	oxidase; Hct: conductivity; co-oximetry: spectrophotometric	oxidase; glucose: glucose oxidase; total neonatal bilirubin: spectrophotometric
Device is part of a series of related models User list or group available	yes yes, through local sales rep	yes, series offers different analyte options yes, thropugh local sales rep
Device warranty	1 yr	1 yr
Loaner devices provided  Average expected life of device	yes 7–10 yrs	no 7–10 yrs
Open or closed system/External gas tanks required	closed/no	closed/no
For POC testing or laboratory	POC testing and laboratory	laboratory
POC:		
Uses disposable prepackaged reagent/Electrode system for analysis No. of disposable reagent system units in basic shipment package	yes, multiuse cartridge 1 measurement and 1 wash/waste cartridge	
No. of samples analyzed per one disposable reagent, electrode system	250, 400, 750 samples	_
List price per disposable reagent system Reagent unit storage requirements	varies based on configuration refrigeration	_
Shelf life of disposable units	9 months	-
Laboratory:		
No. of different disposable reagents required to maintain device	1 measurement cartridge, 1 wash-waste cartridge	1 reagent cartridge, 1 wash cartridge
Max. No. of specific analyte reagents that can reside in device at once Shelf life	1 measurement cartridge, 1 wash-waste cartridge 9 months	1 reagent cartridge, 1 wash cartridge, all electrodes electrode: varies based on type; reagent cartridge: 8 months; wash cartridge: 8
		months; AQC cartridge: 9 months
Cost per test/Reagent cost per test	varies based on configuration	varies based on configuration
Calibrations required	1 & 2 point (automatic)	1 & 2 point (manual & automatic)
Calibration frequency Calibrants traceable to NIST standards	1 point: 30 min; 2 point: 2 hrs yes	1 point: every 30 min; 2 point: every 8 hrs yes
Internal QC program recommended	AQC cartridge, fully user programmable	AQC cartridge, fully user programmable
QC features	AQC cartridge, L-J plots, comparable plots, statistical calculations, monthly cum. reports (available with external system)	c-3 piots, comparable piots, statistical calculations, monthly cum. reports (available with external system)
Remote control of device from laboratory System can use LOINC to transmit results to LIS	yes	yes
How labs get LOINC codes for reagent kits	yes —	_
Detects elete within englysic chamber	Non	Non
Detects clots within analysis chamber	yes	yes
Specimen types suitable for device	whole blood, capillary, mixed venous, arterial, venous	whole blood, capillary, mixed venous, arterial, venous
Acceptable anticoagulants	heparin	heparin
Acceptable anticoagulants Sampling technique Suitable for samples from well neonates/Sick neonates		
Acceptable anticoagulants Sampling technique Suitable for samples from well neonates/Sick neonates Sample size for complete panel of analyte results	heparin aspiration yes/yes 100 µL	heparin aspiration yes/yes 95 µL–175 µL
Acceptable anticoagulants Sampling technique Suitable for samples from well neonates/Sick neonates Sample size for complete panel of analyte results Sample size differs with No. of analytes selected Recommended collection device	heparin aspiration yes/yes	heparin aspiration yes/yes
Acceptable anticoagulants Sampling technique Suitable for samples from well neonates/Sick neonates Sample size for complete panel of analyte results Sample size differs with No. of analytes selected Recommended collection device Provides for patient temperature corrected results	heparin aspiration yes/yes 100 µL no syringe or capillary yes	heparin aspiration yes/yes 95 µL–175 µL yes (microsample mode available) syringe or capillary yes
Acceptable anticoagulants Sampling technique Suitable for samples from well neonates/Sick neonates Sample size for complete panel of analyte results Sample size differs with No. of analytes selected Recommended collection device Provides for patient temperature corrected results Time from sample introduction to result availability Max. No. of patient samples per hr/Max. No. of measured	heparin aspiration yes/yes 100 μL no syringe or capillary	heparin aspiration yes/yes 95 μL–175 μL yes (microsample mode available) syringe or capillary
Acceptable anticoagulants Sampling technique Suitable for samples from well neonates/Sick neonates Sample size for complete panel of analyte results Sample size differs with No. of analytes selected Recommended collection device Provides for patient temperature corrected results Time from sample introduction to result availability Max. No. of patient samples per hr/Max. No. of measured parameters per hr	heparin aspiration yes/yes 100 µL no syringe or capillary yes 60 seconds 25/—	heparin aspiration yes/yes 95 µL-175 µL yes (microsample mode available) syringe or capillary yes 60 seconds 24/up to 336 tests
Acceptable anticoagulants Sampling technique Suitable for samples from well neonates/Sick neonates Sample size for complete panel of analyte results Sample size differs with No. of analytes selected Recommended collection device Provides for patient temperature corrected results Time from sample introduction to result availability Max. No. of patient samples per hr/Max. No. of measured parameters per hr Optimal throughput when calibrated and awaiting specimens Calibration can be interrupted to perform stat sample	heparin aspiration yes/yes 100 µL no syringe or capillary yes 60 seconds 25/— 25 samples per hr yes	heparin aspiration yes/yes 95 µL-175 µL yes (microsample mode available) syringe or capillary yes 60 seconds 24/up to 336 tests 24 samples per hr yes
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Acceptable anticoagulants Sampling technique Suitable for samples from well neonates/Sick neonates Sample size for complete panel of analyte results Sample size differs with No. of analytes selected Recommended collection device Provides for patient temperature corrected results Time from sample introduction to result availability Max. No. of patient samples per hr/Max. No. of measured parameters per hr Optimal throughput when calibrated and awaiting specimens Calibration can be interrupted to perform stat sample Contraindications	heparin aspiration yes/yes 100 µL no syringe or capillary yes 60 seconds 25/— 25 samples per hr yes if calibration is interrupted repeatedly, it will force a mandatory calibration to be completed before sampling	heparin aspiration yes/yes 95 µL-175 µL yes (microsample mode available) syringe or capillary yes 60 seconds 24/up to 336 tests  24 samples per hr yes none
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Acceptable anticoagulants Sampling technique Suitable for samples from well neonates/Sick neonates Sample size for complete panel of analyte results Sample size differs with No. of analytes selected Recommended collection device Provides for patient temperature corrected results Time from sample introduction to result availability Max. No. of patient samples per hr/Max. No. of measured parameters per hr Optimal throughput when calibrated and awaiting specimens Calibration can be interrupted to perform stat sample Contraindications  Known interferences Restrictions based on Hct Sampler has self-wiping probe  Time required for maintenance by lab personnel Onboard diagnostics for troubleshooting/Limited to software Diagnostics performed through modem	heparin aspiration yes/yes 100 µL no syringe or capillary yes 60 seconds 25/— 25 samples per hr yes if calibration is interrupted repeatedly, it will force a mandatory calibration to be completed before sampling benzalkonium no yes  maintenance free yes/no no	heparin aspiration yes/yes 95 µL-175 µL yes (microsample mode available) syringe or capillary yes 60 seconds 24/up to 336 tests  24 samples per hr yes none  contact vendor no yes  weekly: 5 min; monthly: 5 min yes/no no
Acceptable anticoagulants Sampling technique Suitable for samples from well neonates/Sick neonates Sample size for complete panel of analyte results Sample size differs with No. of analytes selected Recommended collection device Provides for patient temperature corrected results Time from sample introduction to result availability Max. No. of patient samples per hr/Max. No. of measured parameters per hr Optimal throughput when calibrated and awaiting specimens Calibration can be interrupted to perform stat sample Contraindications  Known interferences Restrictions based on Hct Sampler has self-wiping probe  Time required for maintenance by lab personnel Onboard diagnostics for troubleshooting/Limited to software	heparin aspiration yes/yes 100 µL no syringe or capillary yes 60 seconds 25/— 25 samples per hr yes if calibration is interrupted repeatedly, it will force a mandatory calibration to be completed before sampling benzalkonium no yes maintenance free yes/no	heparin aspiration yes/yes 95 µL-175 µL yes (microsample mode available) syringe or capillary yes 60 seconds 24/up to 336 tests  24 samples per hr yes none  contact vendor no yes  weekly: 5 min; monthly: 5 min yes/no
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Acceptable anticoagulants Sampling technique Suitable for samples from well neonates/Sick neonates Sample size for complete panel of analyte results Sample size of complete panel of analyte results Sample size differs with No. of analytes selected Recommended collection device Provides for patient temperature corrected results Time from sample introduction to result availability Max. No. of patient samples per hr/Max. No. of measured parameters per hr Optimal throughput when calibrated and awaiting specimens Calibration can be interrupted to perform stat sample Contraindications  Known interferences Restrictions based on Hct Sampler has self-wiping probe  Time required for maintenance by lab personnel Onboard diagnostics for troubleshooting/Limited to software Diagnostics performed through modem Training & certification program for user  Method of analyst ID in system Response for hardware & software failure/User ID & QC failure/ Calibration & power failure Supports bar-code scanning of User can search for and review previous patient results on screen	heparin aspiration yes/yes 100 µL no syringe or capillary yes 60 seconds 25/— 25 samples per hr yes if calibration is interrupted repeatedly, it will force a mandatory calibration to be completed before sampling benzalkonium no yes  maintenance free yes/no no yes  password (customizable) flag-prompt/user ID: customizable; QC: customizable-flag/calibration: flag-recalibration operator & patient IDs, accession No., results, temp., other infor. yes	heparin aspiration yes/yes 95 µL-175 µL yes (microsample mode available) syringe or capillary yes 60 seconds 24/up to 336 tests  24 samples per hr yes none  contact vendor no yes  weekly: 5 min; monthly: 5 min yes/no no yes  password (customizable) diagnostic codes prompt the operator/diagnostic codes/recalibrates, generates diagnostic code if unsuccessful patient ID yes
Acceptable anticoagulants Sampling technique Suitable for samples from well neonates/Sick neonates Sample size for complete panel of analyte results Sample size of differs with No. of analytes selected Recommended collection device Provides for patient temperature corrected results Time from sample introduction to result availability Max. No. of patient samples per hr/Max. No. of measured parameters per hr Optimal throughput when calibrated and awaiting specimens Calibration can be interrupted to perform stat sample Contraindications  Known interferences Restrictions based on Hct Sampler has self-wiping probe  Time required for maintenance by lab personnel Onboard diagnostics for troubleshooting/Limited to software Diagnostics performed through modem Training & certification program for user  Method of analyst ID in system Response for hardware & software failure/User ID & QC failure/ Calibration & power failure Supports bar-code scanning of User can search for and review previous patient results on screen Built-in printer/Data port	heparin aspiration yes/yes 100 µL no syringe or capillary yes 60 seconds 25/— 25 samples per hr yes if calibration is interrupted repeatedly, it will force a mandatory calibration to be completed before sampling benzalkonium no yes  maintenance free yes/no no yes  password (customizable) flag-prompt/user ID: customizable; QC: customizable-flag/calibration: flag-recalibration operator & patient IDs, accession No., results, temp., other infor. yes yes/RS-232, Ethernet	heparin aspiration yes/yes 95 µL-175 µL yes (microsample mode available) syringe or capillary yes 60 seconds 24/up to 336 tests  24 samples per hr yes none  contact vendor no yes  weekly: 5 min; monthly: 5 min yes/no no yes  password (customizable) diagnostic codes prompt the operator/diagnostic codes/recalibrates, generates diagnostic code if unsuccessful patient ID yes yes/RS-232, Ethernet  operator & patient IDs, accession No., results, temperature, patient demographics, others
Acceptable anticoagulants Sampling technique Suitable for samples from well neonates/Sick neonates Sample size for complete panel of analyte results Sample size differs with No. of analytes selected Recommended collection device Provides for patient temperature corrected results Time from sample introduction to result availability Max. No. of patient samples per hr/Max. No. of measured parameters per hr Optimal throughput when calibrated and awaiting specimens Calibration can be interrupted to perform stat sample Contraindications  Known interferences Restrictions based on Hct Sampler has self-wiping probe  Time required for maintenance by lab personnel Onboard diagnostics for troubleshooting/Limited to software Diagnostics performed through modem Training & certification program for user  Method of analyst ID in system Response for hardware & software failure/User ID & QC failure/ Calibration & power failure Supports bar-code scanning of User can search for and review previous patient results on screen Built-in printer/Data port  Information on hard copy report	heparin aspiration yes/yes 100 µL no syringe or capillary yes 60 seconds 25/— 25 samples per hr yes if calibration is interrupted repeatedly, it will force a mandatory calibration to be completed before sampling benzalkonium no yes  maintenance free yes/no no yes  password (customizable) flag-prompt/user ID: customizable; QC: customizable-flag/calibration: flag-recalibration operator & patient IDs, accession No., results, temp., other infor. yes yes/RS-232, Ethernet  operator & patient IDs, accession No., results, temperature, other information  data management system, which connects to LIS/HIS; directly to LIS/HIS (both options)	heparin aspiration yes/yes 95 µL-175 µL yes (microsample mode available) syringe or capillary yes 60 seconds 24/up to 336 tests  24 samples per hr yes none  contact vendor no yes  weekly: 5 min; monthly: 5 min yes/no no yes  password (customizable) diagnostic codes prompt the operator/diagnostic codes/recalibrates, generates diagnostic code if unsuccessful patient ID yes yes/RS-232, Ethernet  operator & patient IDs, accession No., results, temperature, patient demographics, others  data management system, which connects to LIS/HIS; directly to LIS/HIS (both options)
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