

# Bedside glucose testing systems

CAP TODAY's annual lineup of bedside glucose testing systems—14 systems in all—begins on page 24. We list the systems' distinguishing features, mean time between failures, memory size, and much more. The data we display are the seven vendors' answers to CAP TODAY's questions. Please verify that any system you're considering has the stated features and capabilities.

## Bedside glucose testing systems

**Abbott Diagnostics Medisense Products**  
**Steven Pemberton** steven.pemberton@abbott.com  
 4A Crosby Dr., Bedford, MA 01730  
 781-276-4797  
 www.abbott.com

**HemoCue Inc.**  
 40 Empire Dr.  
 Lake Forest, CA 92630  
 949-859-2630/800-323-1674  
 www.hemocue.com

Name of instrument/First year sold	Precision PCx/1998	Blood Glucose Analyzer/1992
Professional or home use Units sold in U.S./Outside U.S. Part of series of similar or related models Dimensions (H x W x D)/Weight Analytical method/technology/Enzyme system used List price Price per disposable reagent system unit	professional use 40,707/15,000 yes, i-Stat 1 7.7 x 2.95 x 5.1 in/10 oz amperometric/glucose oxidase with Precision PCx strips/glucose dehydrogenase with PCx Plus test strips \$995 \$70.50 per box 100 test strips	professional use >20,000 worldwide yes 6 1/4 x 8 1/4 x 3 1/2 in/2 lb dehydrogenase, absorbance photometry \$800 classic, \$950 for data management model \$1.20 per test
No. of dispos. reag. system units per basic package No. of times analyses performed using 1 reag. system unit Dispos. units shelf life/Reag. unit storage requirements	100 per box 1 12-18 months (room temp.)/39°-86°F	25 cuvettes per vial; 4 vials in box 1 9 months/refrig. or 3 d room temp.
Digital readout size/Keypad input capability How results are displayed Specimen types/Sampling techniques Minimum specimen volume required Suitable for samples from well/Sick neonates Time from sample intro. to result availability Batteries used/No. used/Avg. life of 1 set Avg. expected life of device/Mean time between failures Device warranty/Service options Loaners provided	font size 24 pt/menu selection, numeric true values whole blood/drop, can apply blood directly to test strip 3.5 µL with PCx, 2.5 µL with PCx Plus yes/yes 20 sec AA/2/~60 days (based on 30 tests/day) 24 months/24 months 1-yr warranty, lifetime replacement with reagent contact/24-h replacement yes	1.25 cm/menu selection, numeric true values whole blood, venous, capillary, or arterial/exact amount of blood drawn into cuvette by capillary force 5 µL yes/yes 40-240 sec AA/5/5 cycles (150 h) 7 yr/>5 yr 1 yr, \$125 each additional yr/24-h loaner program yes
User list or user group Toll-free No. for customer questions Training and certif. program/No. training days provided Avg. time for lab to complete maintenance Special cleansing procedures	yes 24 h, 7 days yes/depends on No. of operators none no	no 7 AM-5 PM PST, 800-323-1674 yes/as needed from vendor office weekly: 5 min no
Internal QC recommended or required Between instrument CV (based on PT) at these levels: • <50 mg/dL • 100-200 mg/dL • >400 mg/dL • Program name, year/Challenge No./Level of mean glucose challenge sample	as required by facility or institutional policy or when glucose results are questioned or when new lot No. is received — 71.9 mg/dL, CV=4.1%; 192.3 mg/dL, CV=5.5% 400.7 mg/dL, CV=6.9% CAP Whole Blood Glucose Survey, 2003/Set B	quality control cuvette daily 7.5% (XQ-01) 6.6% (XQ-03) 4.4% (XQ-04 >350) CAP EXCEL, 1997/—/—
Accuracy/compared to what reference method or device Precision/compared to what reference method or device Linear range Suggested dynamic, measurement range Contraindications Known interferences/High-altitude interference Restrictions based on hematocrit Electronic, optical function checks Sample quantity checks When auto lock or shutdown occurs User defines QC lockout intervals/Lockout can be circumvented Device supports bar-code scanning of Method of analyst ID/ID required Internal memory size/Max. No. of patient results stored	capillary blood: y=0.91x + 0.91, r=0.98/YSI blood samples: CV 2.9% to 5.1% 20-500 mg/dL PCx Plus; 20-600 mg/dL for PCx 20-500 mg/dL PCx Plus; 20-600 mg/dL for PCx per labeling per labeling/none up to 7,200 ft yes, glucose <300 mg/dL, 20-70%; glucose ≥ 300 mg/dL, 20-60% battery, bar-code scanner, database, and temperature checks performed during power up of meter a fill-trigger electrode on each test strip specifically designed to start the test when sufficient sample is detected user ID failure, QC failure, download time if selected yes/no operator & patient identifiers, reag. lot Nos., comment codes, control & linearity lot Nos. manual or bar-code ID entry/operator ID lockout optional 4,000 patient results, 1,000 controls, 1,000 operators/—	0.994/GC-MS within run CV 2.6% (138 mg/dL)/GC-MS 0-400 mg/dL 0-400 mg/dL no methemoglobin, glucosamine/no no control cuvette (an interface filter) verifies photometer calib. sample quantity always 5 µL due to cuvette technique & design; cuvette automatically draws (by capillary action) exact amount of blood QC failure, control or reagent past exp., QC length yes/optional operator & patient identifiers, controls, reagent manual or bar code/optional 1,000 records/approximately 1,000 results dependent on configuration
Meters connect to How meters are connected to external system to upload results/No. of installations Info. contained in transmission to external system	Precision Web data management system, which in turn connects to LIS/HIS direct serial/50+; modem dial-in/100+; hospital network/800+ device unique identifiers, operator & patient IDs, results, QC identifiers, strip lot Nos., test dates & times, comment codes	HemoCue data management system, which cannot further transmit data direct serial/— device unique identifiers, operator & patient IDs, results, QC identifiers, pass/fail, dates, times, comment codes, analyte unit of measurement type
Hardware/software for data mgmt. system No. of different mgmt. reports system can produce Contents downloaded from DMS to meter System connected (live installations) to which LISs/HISs: • using screen animation/screen scraping • using standard HL7 interface • using proprietary protocol interface Use 3rd-party interfacing tool/engine for LIS/HIS interfaces	Enterprise multi-user Web-based system running on highly redundant Dell server 25 strip lot Nos., valid control values, valid operator IDs, QC lockout & upload lockout parameters Mysis, Cerner, Meditech, Soft Lab, CPSI, Vista, CHCS, GE Medical, ADAC, HBOC Star, McKesson Horizon Lab, Siemens Novius Lab Cerner, Misys, PerSe, Meditech, Soft Lab none Sybase/Neon	PC or laptop/HemoCue DM software customizable — none none Misys in progress
Distinguishing features (provided by vendor)	<ul style="list-style-type: none"> <li>positive reagent ID</li> <li>positive calibration ID—no need to visually verify code key against test strip vial</li> <li>ability to reapply blood within 30 seconds to same strip</li> </ul>	<ul style="list-style-type: none"> <li>indicated for diabetes mellitus</li> <li>not hematocrit dependent</li> <li>no known interferences</li> <li>perfect for meter verification</li> <li>CLIA waived</li> </ul>

## Bedside glucose testing systems

<b>Part 2 of 7</b>	HemoCue Inc. 40 Empire Dr. Lake Forest, CA 92630 949-859-2630/800-323-1674 www.hemocue.com	Hypoguard USA 7301 Ohms Lane Edina, MN 55439 800-818-8877 www.hypoguard.com
<b>Name of instrument/First year sold</b>	Glucose 201 Analyzer/2002	Supreme II Blood Glucose Meter/1997
<b>Professional or home use</b>	professional use	professional & home use
<b>Units sold in U.S./Outside U.S.</b>	—/—	—/—
<b>Part of series of similar or related models</b>	yes	yes
<b>Dimensions (H x W x D)/Weight</b>	3.35 x 6.3 x 1.69 in/0.77 lb	4 3/4 x 2 1/2 x 1 1/4 in/4.7 oz
<b>Analytical method/technology/Enzyme system used</b>	dehydrogenase, absorbance photometry	glucose oxidase
<b>List price</b>	\$600	\$50
<b>Price per disposable reagent system unit</b>	\$1.20 per test	\$0.40
<b>No. of dispos. reag. system units per basic package</b>	25 in vial; 4 vials in box	50
<b>No. of times analyses performed using 1 reag. system unit</b>	1	1
<b>Dispos. units shelf life/Reag. unit storage requirements</b>	9 months from manufacture date/refrigeration	18 months/ambient temp.
<b>Digital readout size/Keypad input capability</b>	1/2 in/none	1/4 x 1/2 in/none
<b>How results are displayed</b>	calculated values (plasma equivalent values)	true & calculated values; reports true results in whole blood values, serum/plasma value calculated (whole blood x 1.12)
<b>Specimen types/Sampling techniques</b>	whole blood, venous, capillary, or arterial/exact amount of blood is drawn into the cuvette by capillary force	whole blood/drop
<b>Minimum specimen volume required</b>	5 µL	9 µL
<b>Suitable for samples from well/Sick neonates</b>	yes/yes	no/no
<b>Time from sample intro. to result availability</b>	40–240 sec	50 sec
<b>Batteries used/No. used/Avg. life of 1 set</b>	AA/4/150 h	J cell/1/700 cycles
<b>Avg. expected life of device/Mean time between failures</b>	7 yr/>5 yr	20,000 tests/not available
<b>Device warranty/Service options</b>	2 yr at no extra cost/—	3 yr/none
<b>Loaners provided</b>	yes	yes
<b>User list or user group</b>	—	no
<b>Toll-free No. for customer questions</b>	7 AM–5 PM PST, 800-323-1674	24 h, 7 days 800-818-8877
<b>Training and certif. program/No. training days provided</b>	yes/as needed	yes/as needed
<b>Avg. time for lab to complete maintenance</b>	weekly: 5 min	weekly: 10 min
<b>Special cleansing procedures</b>	no	no
<b>Internal QC recommended or required</b>	system must be verified on testing days using commercially available controls recommended by HemoCue	as specified by accreditation
<b>Between instrument CV (based on PT) at these levels:</b>		
• <50 mg/dL	not available	not available
• 100–200 mg/dL	3.8	not available
• >400 mg/dL	≥272 mg/dL = 2.9	not available
• Program name, year/Challenge No./Level of mean glucose challenge sample	Equalis (Swedish PT program), 2003/2003-03; 2003-07/272 mg/dL; 120 mg/dL	n/a
<b>Accuracy/compared to what reference method or device</b>	±10% or ±6 mg/dL; corr = 0.994/wet chemical glucose dehydrogenase, ID-GCMS	y=0.99 x + 3, r=0.983, n=113/YSI 2300
<b>Precision/compared to what reference method or device</b>	within run CV 1.9% (108 mg/dL)/—	within-run: 3.9%, between-run: 4.0%/YSI 2300
<b>Linear range</b>	0–444 mg/dL	30–600 mg/dL
<b>Suggested dynamic, measurement range</b>	0–444 mg/dL	30–600 mg/dL
<b>Contraindications</b>	no	no
<b>Known interferences/High-altitude interference</b>	methemoglobin, glucosamine/no	dopamine ≥10 mg/dL, ascorbate ≥4 mg/dL/no
<b>Restrictions based on hematocrit</b>	no	yes, 28%–65%
<b>Electronic, optical function checks</b>	internal electronic self-test automatically checks that the instrument's optronic unit is working properly	internal sumcheck functions for electronics, internal optics standardization, standard strip
<b>Sample quantity checks</b>	visual inspection	only 1 drop (≥9 µL) sample required
<b>When auto lock or shutdown occurs</b>	n/a	no auto lock or shutdown
<b>User defines QC lockout intervals/Lockout can be circumvented</b>	no/no	no/yes
<b>Device supports bar-code scanning of</b>	no bar-code scanner	no bar-code scanner
<b>Method of analyst ID/ID required</b>	n/a	none/n/a
<b>Internal memory size/Max. No. of patient results stored</b>	n/a/n/a	100 tests/100 tests
<b>Meters connect to</b>	n/a	n/a
<b>How meters are connected to external system to upload results/No. of installations</b>	n/a	n/a
<b>Info. contained in transmission to external system</b>	n/a	n/a
<b>Hardware/software for data mgmt. system</b>	—	n/a
<b>No. of different mgmt. reports system can produce</b>	—	n/a
<b>Contents downloaded from DMS to meter</b>	—	n/a
<b>System connected (live installations) to which LISs/HISs:</b>		
• using screen animation/screen scraping	—	n/a
• using standard HL7 interface	—	n/a
• using proprietary protocol interface	—	n/a
<b>Use 3rd-party interfacing tool/engine for LIS/HIS interfaces</b>	—	n/a
<b>Distinguishing features (provided by vendor)</b>	<ul style="list-style-type: none"> <li>• CLIA waived</li> <li>• indicated for diabetes mellitus</li> <li>• not hematocrit dependent</li> <li>• lab verification of patient home meter</li> </ul>	• blood can be applied to test strips inside or outside of meter

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## Bedside glucose testing systems

<b>Part 3 of 7</b>	Hypoguard USA 7301 Ohms Lane Edina, MN 55439 800-818-8877 www.hypoguard.com	Hypoguard USA 7301 Ohms Lane Edina, MN 55439 800-818-8877 www.hypoguard.com
<b>Name of instrument/First year sold</b>	Assure Blood Glucose Meter/1998	Assure II/2001
<b>Professional or home use</b>	professional & home use	professional & home use
<b>Units sold in U.S./Outside U.S.</b>	8,000/—	10,000/—
<b>Part of series of similar or related models</b>	yes	yes
<b>Dimensions (H x W x D)/Weight</b>	4 3/8 x 2 3/8 x 1 3/32 in/5.3 oz	4 x 2 1/4 x 3/4 in/ 2.2 oz with battery
<b>Analytical method/technology/Enzyme system used</b>	glucose oxidase	glucose oxidase
<b>List price</b>	\$50	free with competitive trade out
<b>Price per disposable reagent system unit</b>	\$0.35	\$0.47
<b>No. of dispos. reag. system units per basic package</b>	25, 50, 100	50, 100
<b>No. of times analyses performed using 1 reag. system unit</b>	1	1
<b>Dispos. units shelf life/Reag. unit storage requirements</b>	18 months/ambient temp.	18 months/room temp.
<b>Digital readout size/Keypad input capability</b>	1/4 x 1/2 in/menu selection	5 mm (w) x 10 mm (h)/none
<b>How results are displayed</b>	true values	true values
<b>Specimen types/Sampling techniques</b>	whole blood/drop	whole blood/capillary transfer
<b>Minimum specimen volume required</b>	—	3 µL
<b>Suitable for samples from well/Sick neonates</b>	no/no	no/no
<b>Time from sample intro. to result availability</b>	35 sec	30 sec
<b>Batteries used/No. used/Avg. life of 1 set</b>	J cell/1/1,000 cycles	3 V lithium/1/1,000 cycles
<b>Avg. expected life of device/Mean time between failures</b>	20,000 tests/not available	20,000 tests/—
<b>Device warranty/Service options</b>	3-yr warranty/none	3-yr warranty/—
<b>Loaners provided</b>	yes	yes
<b>User list or user group</b>	no	no
<b>Toll-free No. for customer questions</b>	24 h, 800-818-8877	24 h, 800-818-8877
<b>Training and certif. program/No. training days provided</b>	yes/as needed	yes/as needed
<b>Avg. time for lab to complete maintenance</b>	weekly: 10 min	weekly: 10 min
<b>Special cleansing procedures</b>	no	no
<b>Internal QC recommended or required</b>	as specified by accreditation	as specified by accreditation
<b>Between instrument CV (based on PT) at these levels:</b>		
• <50 mg/dL	not available	n/a
• 100–200 mg/dL	not available	n/a
• >400 mg/dL	not available	n/a
• Program name, year/Challenge No./Level of mean glucose challenge sample	n/a	n/a
<b>Accuracy/compared to what reference method or device</b>	y=0.98 x + 8, r=0.976, n=109/YSI 2300	slope=0.93, r=0.976/YSI glucose analyzer
<b>Precision/compared to what reference method or device</b>	within-run: 4.7%, between-run: 3.7%/YSI 2300	within-run: 3.4%; between run: 3.1%
<b>Linear range</b>	30–550 mg/dL	30–550 mg/dL
<b>Suggested dynamic, measurement range</b>	30–550 mg/dL	30–550 mg/dL
<b>Contraindications</b>	no	no
<b>Known interferences/High-altitude interference</b>	L-dopa and dopamine (≥10 mg/dL)/no	L-dopa and dopamine/yes, tested up to 7,000 ft
<b>Restrictions based on hematocrit</b>	yes, 20%–60%	yes, 30%–55%
<b>Electronic, optical function checks</b>	sumcheck functions for electronics and software, no optics	sumcheck functions for electronics and software, no optics
<b>Sample quantity checks</b>	only 1 drop (≥7 µL) sample required	only one drop (≥3µL) sample required
<b>When auto lock or shutdown occurs</b>	no auto lock or shutdown	1 min
<b>User defines QC lockout intervals/Lockout can be circumvented</b>	no/yes	no/—
<b>Device supports bar-code scanning of</b>	no bar-code scanner	no bar-code scanner
<b>Method of analyst ID/ID required</b>	none/n/a	—/—
<b>Internal memory size/Max. No. of patient results stored</b>	180 tests/180 tests	—/10
<b>Meters connect to</b>	n/a	—
<b>How meters are connected to external system to upload results/No. of installations</b>	n/a	—
<b>Info. contained in transmission to external system</b>	n/a	—
<b>Hardware/software for data mgmt. system</b>	yes	—
<b>No. of different mgmt. reports system can produce</b>	4	—
<b>Contents downloaded from DMS to meter</b>	n/a	—
<b>System connected (live installations) to which LISs/HISs:</b>		
• using screen animation/screen scraping	n/a	—
• using standard HL7 interface	n/a	—
• using proprietary protocol interface	n/a	—
<b>Use 3rd-party interfacing tool/engine for LIS/HIS interfaces</b>	n/a	—
<b>Distinguishing features (provided by vendor)</b>	• touchscreen display	

## Bedside glucose testing systems

<b>Part 4 of 7</b>	<b>Hypoguard USA</b> 7301 Ohms Lane Edina, MN 55439 800-818-8877 www.hypoguard.com	<b>ITC</b> 8 Olsen Ave. Edison, NJ 08820 800-631-5945 www.itcmed.com
<b>Name of instrument/First year sold</b>	<b>Assure 3/2003</b>	<b>IRMA Trupoint</b>
<b>Professional or home use</b>	professional & home use	professional use
<b>Units sold in U.S./Outside U.S.</b>	—/—	—
<b>Part of series of similar or related models</b>	yes	no
<b>Dimensions (H x W x D)/Weight</b>	4 x 2 1/4 x 3/4 in/ 2.2 oz with battery	5 x 9.5 x 13.5 in/6 lb (IRMA Trupoint)
<b>Analytical method/technology/Enzyme system used</b>	glucose oxidase	glucose only: reflectance photometry, glucose oxidase
<b>List price</b>	free with competitive trade out	\$350
<b>Price per disposable reagent system unit</b>	\$0.47	consult SureStep Pro representative
<b>No. of dispos. reagent system units per basic package</b>	50, 100	50 strips
<b>No. of times analyses performed using 1 reagent system unit</b>	1	1
<b>Dispos. units shelf life/Reagent unit storage requirements</b>	18 months/room temp.	strip: 24 months/room temp.
<b>Digital readout size/Keypad input capability</b>	5 mm (w) x 10 mm (h)/none	4.5 x 2.5 in/menu selection, numeric, alphabetic
<b>How results are displayed</b>	true values	true values
<b>Specimen types/Sampling techniques</b>	whole blood/capillary transfer	whole blood/drop, capillary transfer
<b>Minimum specimen volume required</b>	3 µL	1 drop
<b>Suitable for samples from well/Sick neonates</b>	no/no	yes/yes
<b>Time from sample intro. to result availability</b>	10 sec	<45 sec
<b>Batteries used/No. used/Avg. life of 1 set</b>	3 V lithium/1/1,000 tests	rechargeable NIMH battery/1/3 yr
<b>Avg. expected life of device/Mean time between failures</b>	20,000 tests/—	>5 yr/<3% warranty return rate
<b>Device warranty/Service options</b>	3-yr warranty/—	24-h replacement upon failure
<b>Loaners provided</b>	yes	24-h replacement upon failure
<b>User list or user group</b>	no	yes
<b>Toll-free No. for customer questions</b>	24 h, 7 days, 800-818-8877	24 h, 7 days
<b>Training and certifi. program/No. training days provided</b>	yes/as needed	yes/depends on No. of operators
<b>Avg. time for lab to complete maintenance</b>	weekly: 10 min	clean glucose module as needed, 2 min
<b>Special cleansing procedures</b>	no	no
<b>Internal QC recommended or required</b>	as specified by accreditation	based on hospital-specific policy
<b>Between instrument CV (based on PT) at these levels:</b>		
• <50 mg/dL	—	4.39%
• 100–200 mg/dL	—	3.44%
• >400 mg/dL	—	4.97%
• Program name, year/Challenge No./Level of mean glucose challenge sample	—/—/—	CAP
<b>Accuracy/compared to what reference method or device</b>	slope=0.93, r=0.976/YSI glucose analyzer	r >0.98/YSI
<b>Precision/compared to what reference method or device</b>	within-run: 3.4%; between run: 3.1%/—	3.44–4.97 CV across runs/—
<b>Linear range</b>	30–550 mg/dL	0–500 mg/dL
<b>Suggested dynamic, measurement range</b>	30–550 mg/dL	0–500 mg/dL
<b>Contraindications</b>	no	no
<b>Known interferences/High-altitude interference</b>	L-dopa and dopamine/yes, 7,000 ft	sodium fluoride/no
<b>Restrictions based on hematocrit</b>	yes, 30%–55%	yes, <25% high results, >60% low results
<b>Electronic, optical function checks</b>	sumcheck functions for electronics and software, no optics	optical self-zeroing; has LED to detect errors & internal check strip that is part of strip holder, automatically done with every test
<b>Sample quantity checks</b>	one drop (≥3µL)	uses LED to determine sufficient quantity
<b>When auto lock or shutdown occurs</b>	1 min time out	user ID failure, QC failure, lockout if reagent expired or if control lot & reagent not entered
<b>User defines QC lockout intervals/Lockout can be circumvented</b>	no/—	yes/no
<b>Device supports bar-code scanning of</b>	no bar-code scanner	bar-code scanner available
<b>Method of analyst ID/ID required</b>	%	touchscreen/optional or required, QA user setup
<b>Internal memory size/Max. No. of patient results stored</b>	10 test memory/10	4 Mb RAM, 4 Mb ROM, 256 KB nonvolatile/200 patient results
<b>Meters connect to</b>	n/a	data management system, which connects to LIS/HIS; also directly to LIS/HIS
<b>How meters are connected to external system to upload results/No. of installations</b>	n/a	direct serial/—, modem dial-in/—, Ethernet/—
<b>Info. contained in transmission to external system</b>	n/a	device unique identifiers, operator & patient IDs, results, QC identifiers, results dates & times, strip/material lots, up to 3 alphanumeric notes, result flags, reference range/QC limits, software revision, sample types
<b>Hardware/software for data mgmt. system</b>	—	nondedicated IBM compatible PC, IDMS (Integrated Data Management System)
<b>No. of different mgmt. reports system can produce</b>	—	6
<b>Contents downloaded from DMS to meter</b>	—	strip lot Nos., valid control values, valid operator IDs
<b>System connected (live installations) to which LISs/HISs:</b>		
• using screen animation/screen scraping	—	major vendors
• using standard HL7 interface	—	major vendors
• using proprietary protocol interface	—	none
<b>Use 3rd-party interfacing tool/engine for LIS/HIS interfaces</b>	—	yes, product used depends on host system emulation requirements
<b>Distinguishing features (provided by vendor)</b>	<ul style="list-style-type: none"> <li>• wick in test strip, ergonomically formed, large handle</li> <li>• fast test time—10 sec</li> <li>• extremely easy to use, low maintenance</li> </ul>	<ul style="list-style-type: none"> <li>• integrated workstation with IRMA (blood gas, electrolytes, BUN, cartridge glucose test, Hct)</li> <li>• 1 user interface, 1 in-service program, 1 data management system</li> </ul>

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# Bedside glucose testing systems

<b>Part 5 of 7</b>	LifeScan Inc., a Johnson & Johnson company Healthcare Professional Line 1000 Gibraltar Dr., Milpitas, CA 95035-6312 800-524-7226 www.lifescan.com	LifeScan Inc., a Johnson & Johnson company Healthcare Professional Line 1000 Gibraltar Dr., Milpitas, CA 95035-6312 800-524-7226 www.lifescan.com
<b>Name of instrument/First year sold</b>	SureStepPro/1997	SureStepFlexx/2000
<b>Professional or home use</b>	professional use	professional use
<b>Units sold in U.S./Outside U.S.</b>	>20,000/n/a	>10,000/>3,000
<b>Part of series of similar or related models</b>	yes	yes
<b>Dimensions (H x W x D)/Weight</b>	7.4 x 3.5 x 2.6 in/1.2 lb	6.34 x 3.55 x 1.63 in/12.5 oz (with bar-code scanner), 12.1 oz (without)
<b>Analytical method/technology/Enzyme system used</b>	reflectance photometry/glucose oxidase	reflectance photometry/glucose oxidase
<b>List price</b>	\$2,000 per bedside unit	\$1,200 with bar-code scanner, \$850 without bar-code scanner
<b>Price per disposable reagent system unit</b>	by contract, volume	by contract, volume
<b>No. of dispos. reag. system units per basic package</b>	2 25-strip vials (50 strips per box)	2 25-strip vials (50 strips per box)
<b>No. of times analyses performed using 1 reag. system unit</b>	1	1
<b>Dispos. units shelf life/Reag. unit storage requirements</b>	18 months unopened/<30°C (86°F); away from heat, direct sunlight	18 months unopened/<30°C (86°F); away from heat, direct sunlight
<b>Digital readout size/Keypad input capability</b>	18 pt. font/menu selection, numeric, alphabetic, bar-code scan built-in	18 pt. font (16-pixels high, 8-pixels wide)/menu select., numeric, alphabetic
<b>How results are displayed</b>	true values	true values
<b>Specimen types/Sampling techniques</b>	whole blood/drop, capillary transfer, touchable test strip	whole blood/drop, capillary transfer, touchable test strip
<b>Minimum specimen volume required</b>	5 µL, maximum 30 µL	5 µL, maximum 30 µL
<b>Suitable for samples from well/Sick neonates</b>	yes/yes	yes/yes
<b>Time from sample intro. to result availability</b>	15 sec minimum	15 sec minimum
<b>Batteries used/No. used/Avg. life of 1 set</b>	C 1.5 V/2/approximately 1,000 tests	AA/3/1,000 test minimum
<b>Avg. expected life of device/Mean time between failures</b>	>5 yr/<3% warranty return rate	5-yr minimum/<3% warranty return rate
<b>Device warranty/Service options</b>	life of contract for defects	1-yr warranty/extended service agreements available
<b>Loaners provided</b>	yes	yes
<b>User list or user group</b>	yes (contact SureStepPro product manager)	yes (contact SureStepFlexx product manager)
<b>Toll-free No. for customer questions</b>	24 h, 7 days, multiple languages	24 h, 7 days, multiple languages
<b>Training and certif. program/No. training days provided</b>	yes/as negotiated	yes/as negotiated
<b>Avg. time for lab to complete maintenance</b>	none	none
<b>Special cleansing procedures</b>	no	no
<b>Internal QC recommended or required</b>	as defined by hospital policy	as defined by hospital policy
<b>Between instrument CV (based on PT) at these levels:</b>		
• <50 mg/dL	4.39%	2.5%
• 100–200 mg/dL	3.44%	2.9%
• >400 mg/dL	4.97%	2.4%
• Program name, year/Challenge No./Level of mean glucose challenge sample	data from 2000 AACC poster	data from 2000 & 2001 AACC posters
<b>Accuracy/compared to what reference method or device</b>	>0.98/YSI	>0.98/YSI
<b>Precision/compared to what reference method or device</b>	3.44–4.97 CV across runs/YSI	3.44–4.97/YSI
<b>Linear range</b>	0–500 mg/dL	0–500 mg/dL
<b>Suggested dynamic, measurement range</b>	0–500 mg/dL	0–500 mg/dL
<b>Contraindications</b>	excessive water loss or dehydration	excessive water loss or dehydration
<b>Known interferences/High-altitude interference</b>	sodium fluoride/no	sodium fluoride/no
<b>Restrictions based on hematocrit</b>	adult: 25%–60% RBC; neonates: 25%–65% RBC	adults: 25%–60% RBC; neonates: 25%–65% RBC
<b>Electronic, optical function checks</b>	automatic electronic and optical checks with each test	automatic electronic and optical checks with each test
<b>Sample quantity checks</b>	test strip color confirmation dot when adequate sample applied, bedside unit error messages	test strip color confirmation dot when adequate sample applied; meter error messages
<b>When auto lock or shutdown occurs</b>	user ID failure, QC failure, data upload lockout option	user ID failure, QC failure, failure to transfer data
<b>User defines QC lockout intervals/Lockout can be circumvented</b>	yes/no	yes/no
<b>Device supports bar-code scanning of</b>	operator & patient identifiers, reagent (strip) lot Nos., bedside unit serial Nos., control solution lot Nos.	operator & patient identifiers, reagent (strip) lot Nos., control solution lot Nos., meter serial Nos.
<b>Method of analyst ID/ID required</b>	bedside unit custom programmed for manual or bar-code entry/required or optional	unique alphanumeric ID/optional (defined by location)
<b>Internal memory size/Max. No. of patient results stored</b>	2,500 patient & QC tests plus 50 test strip lots and QC lots	256k/1,500 patient +QC tests, 50 test strip lots and 50 QC lots
<b>Meters connect to</b>	data management system, which in turn connects to LIS/HIS (scripted interface & electronic data interfaces)	data management system, which in turn connects to LIS/HIS (scripted interface & electronic data interfaces)
<b>How meters are connected to external system to upload results/No. of installations</b>	DataLink Connect, >950 hospital sites; DataLink Interface, >150 sites	DataLink Connect, >950 hospital sites; DataLink Interface, >150 sites
<b>Info. contained in transmission to external system</b>	device unique identifiers, operator & patient IDs, results, QC identifiers, flags, comments	device unique identifiers, operator & patient IDs, results, QC identifiers, result flags, location/site
<b>Hardware/software for data mgmt. system</b>	desktop or laptop, Windows NT & 2000, proprietary DataLink Data Management System; QML; RALS-Plus	desktop, Windows NT & 2000, Microsoft SQL server, proprietary DataLink Data Management System; QML; RALS-Plus
<b>No. of different mgmt. reports system can produce</b>	17 reports plus export function for customized reports	12 standard, unlimited customized reports
<b>Contents downloaded from DMS to meter</b>	strip lot Nos., valid control values, valid operator IDs, all configurations: expiration, time, lockouts	strip lot Nos., valid control values, valid operator IDs, critical value ranges, comment codes
<b>System connected (live installations) to which LISs/HISs:</b>		
• using screen animation/screen scraping	DHCP-VA System, McKesson PathLab 3, Star, ALG; Misys Flexilab, Cerner Pathnet (legacy), SCC, SoftLab, DHT, Dynacor Premier	DHCP-VA system, McKesson PathLab 3, Star, ALG; Misys Flexilab, Cerner Pathnet (legacy); SCC SoftLab, DHT Dynacor Premier
• using standard HL7 interface	Cerner Pathnet (legacy), Misys Flexilab, Meditech Magic & client/server	Cerner Pathnet (legacy); Sunquest Flexilab; Meditech Magic & client/server
• using proprietary protocol interface	none	none
<b>Use 3rd-party interfacing tool/engine for LIS/HIS interfaces</b>	yes (Telcor, exclusive contract; Reflections WRQ software)	yes (Telcor, exclusive contract; Reflections WRQ software)
<b>Distinguishing features (provided by vendor)</b>	<ul style="list-style-type: none"> <li>unique test strip technology: off-meter sample application, sample volume confirmation</li> <li>bedside unit with alphanumeric touchscreen and built-in bar-code scanner</li> <li>infrared bidirectional interface between bedside unit and workstation with the widest array of DataLink Connectivity solutions: direct, modem, network, scripted interface, EDI, POC multi-analyte data management systems: QML &amp; RALS-Plus</li> </ul>	<ul style="list-style-type: none"> <li>exception reporting and database tracking—customized QC compliance rules—patented February 2003</li> <li>multiple levels of security—nonvalidated operator, noncertified operator, warn and lockout, QC lockout</li> <li>true off-meter sample application; unique test strip technology—touchable, absorbent test strip</li> <li>infrared bidirectional interface between bedside unit and workstation with the widest array of DataLink Connectivity solutions: direct, modem, network, scripted interface, EDI, POC multi-analyte data management systems: QML &amp; RALS-Plus</li> </ul>

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## Bedside glucose testing systems

<b>Part 6 of 7</b>	<b>Medtronic MiniMed Inc.</b> 18000 Devonshire St. Northridge, CA 91325 800-646-4633 www.minimed.com	<b>Roche Diagnostics</b> Accu-Chek Customer Care 9115 Hague Rd., Indianapolis, IN 46256 800-440-3638 www.roche-diagnostics.us
<b>Name of instrument/First year sold</b>	<b>Medtronic MiniMed CGMS Gold/2003</b>	<b>Accu-Chek HQ/1999</b>
<b>Professional or home use</b> <b>Units sold in U.S./Outside U.S.</b> <b>Part of series of similar or related models</b> <b>Dimensions (H x W x D)/Weight</b> <b>Analytical method/technology/Enzyme system used</b> <b>List price</b> <b>Price per disposable reagent system unit</b>	professional use >1,000/>1,000 no 2.8 x 0.9 x 3.6 in/4 oz glucose oxidase \$1,995/monitor, \$35/sensor (disposable) \$35 per sensor	professional use 7,500/none yes 2.9 x 4.2 x 9.4 in/3.5 lbs biosensor—glucose dehydrogenase \$1,495 contingent on contract price
<b>No. of dispos. reagent system units per basic package</b> <b>No. of times analyses performed using 1 reagent system unit</b> <b>Dispos. units shelf life/Reagent unit storage requirements</b>	10/box 1 sensor lasts ~36–72 h 6 months/refrigeration 2°C–24°C	50 test strips 1 18–24 months, stable until exp. on vial/room temp., <90°F, do not freeze
<b>Digital readout size/Keypad input capability</b> <b>How results are displayed</b>  <b>Specimen types/Sampling techniques</b> <b>Minimum specimen volume required</b> <b>Suitable for samples from well/Sick neonates</b> <b>Time from sample intro. to result availability</b> <b>Batteries used/No. used/Avg. life of 1 set</b> <b>Avg. expected life of device/Mean time between failures</b> <b>Device warranty/Service options</b>  <b>Loaners provided</b>	—/menu selection at time of monitor download, system can display retrospective only/numerical agreement; avg. difference between glucose sensor and glucose meter of -5.4 mg/dL, daily median correlation coefficient of 0.92, calibration using blood glucose meters daily continuous monitoring and sampling of interstitial fluid glucose levels n/a no/yes (with diabetes) retrospective analysis after disconnection AAA alkaline batteries/2/~2 months ~3 yr/— 1-yr warranty for monitor, no warranty on disposable/none  no	7 lines x 30 characters/menu selection, numeric, alphabetic true values  whole blood/arterial, venous, capillary, neonate (including cord blood) 4 µL yes/yes 26 sec 3 V lithium/2/700 tests 5 yr/828,000 tests all-inclusive warranty through life of Accu-Chek HQ system at no additional cost/24 h, 365 days/yr customer care with overnight replacement if needed replaced under warranty
<b>User list or user group</b> <b>Toll-free No. for customer questions</b> <b>Training and certifi. program/No. training days provided</b> <b>Avg. time for lab to complete maintenance</b> <b>Special cleansing procedures</b>	no yes, 800-646-4633 yes (training only)/~1 day none no	yes (contact local account manager) yes (24 h, 365 days per yr) yes/site-specific according to quantity of personnel none no
<b>Internal QC recommended or required</b> <b>Between instrument CV (based on PT) at these levels:</b> • <50 mg/dL • 100–200 mg/dL • >400 mg/dL <b>Program name, year/Challenge No./Level of mean glucose challenge sample</b>	none — 5% (40–400 mg/dL) in vitro — CGMS, 1998–99	daily, 2 level  53.8 mg/dL SD=4.1 (6,088 labs) 191.4 mg/dL CV=4.7% (3,096 labs) 228.5 mg/dL CV=4.6% (6,099 labs) CAP, 2001/WBG-C/see above
<b>Accuracy/compared to what reference method or device</b> <b>Precision/compared to what reference method or device</b>  <b>Linear range</b> <b>Suggested dynamic, measurement range</b> <b>Contraindications</b> <b>Known interferences/High-altitude interference</b> <b>Restrictions based on hematocrit</b>  <b>Electronic, optical function checks</b>  <b>Sample quantity checks</b> <b>When auto lock or shutdown occurs</b>  <b>User defines QC lockout intervals/Lockout can be circumvented</b> <b>Device supports bar-code scanning of</b>  <b>Method of analyst ID/ID required</b> <b>Internal memory size/Max. No. of patient results stored</b>	coefficient of variation (CV) of 5%/fingerstick blood glucose measurements —/glucose meters, HemoCue, YSI (any and all)  — 40–400 mg/dL not recommended for use by persons with impaired vision or hearing possibly MRI/no no  test plug, 24–29nA  none none  no/no no bar-code scanner  at time of monitor download/optional up to 14 days continuous data/288 readings per day	$y=0.991x + 8.4$ , $r=0.980$ /glucose hexokinase—Hitachi controls: low SD=2.83 mg/dL, mid CV=3.08%, high CV=2.82%; blood: low SD=1.5 mg/dL, mid CV=3.2%, high CV=3.2%/glucose hexokinase 10–600 mg/dL 10–600 mg/dL per labeling per labeling/none up to 10,150 ft yes, glucose <200 mg/dL, 20%–65%; glucose >200, 20%–55%  meter cradle communication with the Advantage meter, meter cradle with code key, battery voltage test, internal database memory check, internal configuration check built-in electronic strip check, visual confirmation of sample volume user ID failure (valid op.), QC failure, patient ID length, reagent & QC lots, comment codes, incorrect code key, incorrect Advantage meter yes/yes (information management system identifies operators who violate hospital policy) operator & patient identifiers  alphanumeric/yes 2,000 records/2,000 records
<b>Meters connect to</b>  <b>How meters are connected to external system to upload results/No. of installations</b> <b>Info. contained in transmission to external system</b>	Com-Station for download to computer & software  direct serial/— patient IDs, results	data management system, which in turn connects to LIS/HIS  direct serial/—, modem dial-in/—, hospital network/—  device unique identifiers, operator & patient IDs, results, strip lot Nos., QC identifiers, proficiency & linearity samples, comments, meter loc., download loc.
<b>Hardware/software for data mgmt. system</b> <b>No. of different mgmt. reports system can produce</b> <b>Contents downloaded from DMS to meter</b>  <b>System connected (live installations) to which LISs/HISs:</b> • using screen animation/screen scraping  • using standard HL7 interface  • using proprietary protocol interface <b>Use 3rd-party interfacing tool/engine for LIS/HIS interfaces</b>	Com-Station (docking unit that transmits data from CGMS to computer) and software 7 standard unlimited customized reports — does not interface LIS or HIS, a report from software—nontransferable no no no no	MAS RALS-Plus, MAS RALS-Lite*, MAS RALS-Notebook*, DataCare POC with Telcor Quick-Linc interface, Accu-Chek HDM unlimited (customer defined) strip & QC lot Nos., valid control values, valid operator IDs, meter configuration, message of the day, linearity values, critical ranges comments  all major LIS vendors including Cerner, Misys, DHCP, McKesson, Phamis, Meditech, SoftLab Cerner, Misys, Meditech, McKesson  none through Telcor as well as interfacing through the MAS continuum
<b>Distinguishing features (provided by vendor)</b>	<ul style="list-style-type: none"> <li>• continuous glucose values collected (every 5 min)</li> <li>• up to 72 h of data</li> <li>• ability to enter in events (insulin, food, exercise, etc.) to compare against glucose values upon review of data</li> </ul>	<ul style="list-style-type: none"> <li>• uses the Accu-Chek Comfort Curve Test Strip; oxygen independent chemistry with reliable results at varying hematocrit levels</li> <li>• hand-free communication with LIS/HIS</li> <li>• alphanumeric touchscreen</li> <li>• proven bidirectional network connection from Accu-Chek HQ to LIS/HIS</li> <li>• ADT data interface with RALS-Plus/DataCare POC with Telcor Quick-Linc interface</li> </ul> <p>* Roche exclusive</p>

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# Bedside glucose testing systems

<b>Part 7 of 7</b>	<p>Roche Diagnostics                  Accu-Chek Customer Care                  9115 Hague Rd., Indianapolis, IN 46256                  800-440-3638                  www.roche-diagnostics.us</p>	<p>Roche Diagnostics                  Accu-Chek Customer Care                  9115 Hague Rd., Indianapolis, IN 46256                  800-440-3638                  www.roche-diagnostics.us</p>
<b>Name of instrument/First year sold</b>	AccuData GTS, 1994; AccuData GTS Plus, 2000	Accu-Chek Inform System/2001
<p>Professional or home use                  Units sold in U.S./Outside U.S.                  Part of series of similar or related models                  Dimensions (H x W x D)/Weight                  Analytical method/technology/Enzyme system used                  List price                  Price per disposable reagent system unit</p>	<p>professional use                  40,000*/5,000                  yes                  11 x 8.75 x 4 in/5 lbs                  biosensor—glucose dehydrogenase                  \$550                  contingent on contract price</p>	<p>professional use                  28,500/1,500                  yes                  1.4 x 3.8 x 7.6 in/12 oz                  biosensor—glucose dehydrogenase                  \$1,200                  contingent on contract price</p>
<p>No. of dispos. reag. system units per basic package                  No. of times analyses performed using 1 reag. system unit                  Dispos. units shelf life/Reag. unit storage requirements</p>	<p>50 strips per vial                  1                  18–24 months, stable until exp. on vial/&lt;90°F, do not freeze</p>	<p>50 test strips                  1                  18–24 months, stable until expir. date on vial/room temp., less than 90°F, do not freeze</p>
<p>Digital readout size/Keypad input capability                  How results are displayed                  Specimen types/Sampling techniques                  Minimum specimen volume required                  Suitable for samples from well/Sick neonates                  Time from sample intro. to result availability                  Batteries used/No. used/Avg. life of 1 set                  Avg. expected life of device/Mean time between failures                  Device warranty/Service options</p>	<p>4 lines x 20 characters LCD/menu selection, numeric true values                  whole blood/arterial, venous, capillary, neonate (including cord blood)                  4 µL                  yes/yes                  26 sec                  3 V lithium/2/~700 tests                  5 yr/10,000 tests                  all-inclusive warranty through life of AccuData GTS/GTS Plus at no additional cost/24 h, 365 days customer care w/ overnight replacement if needed</p>	<p>font size varies/menu selection, numeric, alphabetic true values                  whole blood/arterial, venous, capillary, neonate (including cord blood)                  4 µL                  yes/yes                  26 sec                  3.7 V rechargeable lithium ion/1/testing in progress                  5 yr/542,000 tests                  all-inclusive warranty through life of Accu-Chek Inform System at no additional cost/customer care is available 24 h, 365 days per yr with overnight replacement if needed</p>
<b>Loaners provided</b>	replaced under warranty	replaced under warranty
<p>User list or user group                  Toll-free No. for customer questions                  Training and certif. program/No. training days provided                  Avg. time for lab to complete maintenance                  Special cleansing procedures</p>	<p>yes (contact local account manager)                  yes (24 h, 365 days per yr)                  yes/site-specific according to No. of employees                  none                  no</p>	<p>yes (contact local account manager)                  yes (24 h, 365 days per yr)                  yes/site-specific according to No. of employees                  none                  no</p>
<p>Internal QC recommended or required                  Between instrument CV (based on PT) at these levels:                  • &lt;50 mg/dL                  • 100–200 mg/dL                  • &gt;400 mg/dL                  • Program name, year/Challenge No./Level of mean glucose challenge sample</p>	<p>daily, 2 level                  53.8 mg/dL SD=4.1 (6,088 labs)                  191.4 mg/dL CV=4.7% (3,096 labs)                  228.5 mg/dL CV=4.6% (6,099 labs)                  CAP, 2001/WBG-C/see above</p>	<p>daily, 2 levels of glucose control solutions                  53.8 mg/dL SD=4.1 (6,088 labs)                  191.4 mg/dL CV=4.7% (3,096 labs)                  228.5 mg/dL CV=4.6% (6,099 labs)                  CAP, 2001/WBG-C/see above</p>
<p>Accuracy/compared to what reference method or device                  Precision/compared to what reference method or device                  Linear range                  Suggested dynamic, measurement range                  Contraindications</p>	<p><math>y=0.991x + 8.4</math>, <math>r=0.980</math>/glucose hexokinase—Hitachi                  controls: low SD=2.83 mg/dL, mid CV=3.08%, high CV=2.82%; blood: low SD=1.5 mg/dL, mid CV=3.2%, high CV=3.2%/glucose hexokinase                  10–600 mg/dL                  10–600 mg/dL                  per labeling</p>	<p><math>y=0.991x + 8.4</math>, <math>r=0.980</math>/glucose hexokinase—Hitachi                  controls: low SD=2.83 mg/dL, mid CV=3.08%, high CV=2.82%; blood: low SD=1.5 mg/dL, mid CV=3.2%, high CV=3.2%/glucose hexokinase                  10–600 mg/dL                  10–600 mg/dL                  yes, per labeling</p>
<p>Known interferences/High-altitude interference                  Restrictions based on hematocrit                  Electronic, optical function checks</p>	<p>per labeling/none up to 10,150 feet                  yes, glucose &lt;200 mg/dL, 20%–65%; glucose &gt;200, 20%–55%                  meter cradle communication with Advantage meter, GTS with code key, battery voltage test, internal database memory check, internal configuration check</p>	<p>per labeling/none up to 10,150 ft                  yes, glucose &lt;200 mg/dL 20%–65%; glucose &gt;200 mg/dL 20%–55%                  meter with code key, battery voltage test, internal database memory check, internal configuration check</p>
<p>Sample quantity checks                  When auto lock or shutdown occurs</p>	<p>built-in electronic strip check, visual confirmation of sample volume                  user ID failure (valid op.), QC failure, patient ID length, incorrect code key, incorrect Advantage meter</p>	<p>built-in electronic strip check, visible verification of sample volume                  user ID failure (valid op.), QC failure, download interval lockout, patient ID length, reagent editing, mandatory comments, incorrect/missing code key, time &amp; data editing                  yes/no (optional QC pass/fail feature)</p>
<p>User defines QC lockout intervals/Lockout can be circumvented                  Device supports bar-code scanning of</p>	<p>yes/yes (information management system identifies operators who violate hospital policy)                  operator &amp; patient identifiers, comment codes</p>	<p>operator &amp; patient identifiers, reagent lot Nos.</p>
<p>Method of analyst ID/ID required                  Internal memory size/Max. No. of patient results stored</p>	<p>numeric input or bar-code wand scan/yes                  1,000 total patient, control, linearity, proficiency tests/1,000</p>	<p>alphanumeric or bar-code scan/yes                  4,000 results/4,000 tests</p>
<p>Meters connect to                  How meters are connected to external system to upload results/No. of installations                  Info. contained in transmission to external system</p>	<p>data management system, which in turn connects to LIS/HIS                  direct serial/—, modem dial-in/—, hospital network/—                  device unique identifiers, operator &amp; patient IDs, results, QC identifiers, strip lot Nos., download loc., comment codes, proficiency &amp; linearity samples</p>	<p>data management system, which in turn connects to LIS/HIS                  direct serial/—, modem dial-in/—, hospital network/—                  device unique identifiers, operator &amp; patient IDs, result, strip lot Nos., QC identifiers, proficiency &amp; linearity samples, comments, meter location, download location</p>
<p>Hardware/software for data mgmt. system                  No. of different mgmt. reports system can produce                  Contents downloaded from DMS to meter</p>	<p>MAS RALS-Plus, MAS RALS-Lite†, MAS RALS-Notebook†, DataCare POC with Telcor Quick-Linc interface, Accu-Chek HDM                  unlimited (customer defined)                  strip &amp; QC lot Nos., valid operator IDs, valid control values, linearity values</p>	<p>MAS RALS-Plus, MAS RALS-Lite*, MAS RALS-Notebook*, DataCare POC with Telcor Quick-Linc interface                  unlimited (user defined)                  QC &amp; strip lot Nos., valid control values, valid operator &amp; patient IDs, meter configuration, linearity lot Nos. &amp; values, comments</p>
<p>System connected (live installations) to which LISs/HISs:                  • using screen animation/screen scraping                  • using standard HL7 interface                  • using proprietary protocol interface                  Use 3rd-party interfacing tool/engine for LIS/HIS interfaces</p>	<p>all major LIS vendors including Cerner, Misys, DHCP, McKesson, Phamis, Meditech, SoftLab                  Cerner, Misys, Meditech, McKesson                  none                  through Telcor as well as interfacing through the MAS continuum</p>	<p>all major LIS vendors including Cerner, Meditech, Misys, CPSI, CompuCare, Antrim, SoftLab, Siemens, McKesson, CHC, TDS, Dawning Tech., Cloverleaf, Data Innovations                  —                  through Telcor as well as through MAS continuum</p>
<b>Distinguishing features (provided by vendor)</b>	<ul style="list-style-type: none"> <li>proven bidirectional network connection from AccuData GTS/GTS Plus to LIS/HIS</li> <li>ADT data interface with RALS-Plus/DataCare POC with Telcor Quick-Linc interface</li> <li>uses the Accu-Chek Comfort Curve Test Strip; oxygen independent chemistry with reliable results at varying hematocrit levels</li> </ul> <p>* combined AccuData GTS and AccuData GTS Plus sales                  † Roche exclusive</p>	<ul style="list-style-type: none"> <li>uses the Accu-Chek Comfort Curve Test Strip; oxygen independent chemistry with reliable results at varying hematocrit levels</li> <li>offers alphanumeric touchscreen, onboard bar-code ID, plus connectivity including ADT feed provides two patient identifiers for confirmation</li> <li>extends the quality of blood glucose programs to six other point-of-care tests by allowing the entry and transfer of manual test information</li> </ul> <p>* Roche exclusive</p>

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