	Abbott Diabetes Care 1420 Harbor Bay Parkway Alameda, CA 94502 510-749-5400	Arkray Inc. 5198 W. 76th St. Edina, MN 55439 800-818-8877
Part 1 of 6	www.abbottdiabetescare.com	www.arkrayusa.com
Name of instrument/First year sold	Precision Xceed Pro Blood Glucose and Beta-Ketone Monitoring System/2007	Assure Pro/2006
Professional or home use List price Units sold in U.S./Outside U.S./In 2008 Part of series of similar or related models Dimensions (H x W x D)/Weight Analytical method/Technology/Enzyme system used	professional and home use — yes 19.7 cm (7.7 in) \times 7.5 cm (2.96 in) \times 5.33 cm (2.1 in)/256 g (9 oz) glucose-specific GDH-NAD enzyme and low applied voltage to minimize interference; beta-hydroxybutyrate, the predominant blood ketone DKA	professional use free with competitive trade out — yes $4.1 \times 2.4 \times 1$ in/2.5 oz without battery glucose oxidase
Price per disposable reagent system unit		contact sales representative
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	glucose: 100 strips; ketone: 50 strips 1 15–18 months/4°–30°C	50 or 100 1 18 months/room temperature
Digital readout size/Keypad input capability How results are displayed Specimen types/Sampling techniques	3.06 mm (normal), 8.16 mm (results)/menu selection, numeric, alphabetic true values whole blood/drop, capillary transfer, touchable strips	
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 one set Avg. expected life of device/Mean time between failures Device warranty/Service options	glucose: 0.6 µL; ketone: 1.5 µL yes/yes glucose: 20 seconds; ketone: 10 seconds AA or NiMH rechargeable/2/— — 1 year, lifetime replacement with reagent contract/24-hour replacement	1 μL no/no 10 seconds 1.5 V alkaline AAA/2/up to 5,000 tests — 5 years/—
Loaners provided	yes	yes
User list or user group Toll-free No. for customer questions/Hours Training and certif. program/No. training days provided Avg. time for lab to complete maintenance Special cleansing procedures	yes, list available upon request 877-529-7185/24 hours, 7 days yes/depends on number of operators none no	no 800-818-8877/24 hours, 7 days yes/as needed weekly: 5 minutes no
Internal QC recommended or required	as defined by facility or institutional policy	as specified by accreditation
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	70.5 mg/dL, CV=5.0% (4,259 labs) 121.4 mg/dL, CV=4.9% (8,177 labs) 409.6 mg/dL, CV=4.8% (8,052 labs) CAP Whole Blood Glucose Survey, WBG-C, 2008/—	_ _ _ _
Accuracy/Compared to what reference method or device	capillary blood: y=0.94x + 1.6; r=0.98/YSI	slope=0.91, r=0.96/YSI glucose analyzer
Precision/Compared to what reference method or device	blood samples: CV 3.0% to 3.6%/YSI	4.5%/—
Linear range Suggested dynamic, measurement range Contraindications	glucose: 20–500 mg/dL; ketone: 0.0–8.0 mmol/L glucose: 20–500 mg/dL; ketone: 0.0–8.0 mmol/L per labeling	20–600 mg/dL 20–600 mg/dL yes
Known interferences/High-altitude interference	per labeling/no	per labeling/no, tested up to 10,000 feet
Restrictions based on hematocrit	yes, glucose: 20–70%; ketone: 30–60%	yes, 30%–55%
Electronic, optical function checks	battery, bar-code scanner, database, and temperature checks performed	automatic electronic
Sample quantity checks	fill-trigger electrode on each test strip specifically designed to start the test when sufficient sample is detected	-
When auto lock or shutdown occurs User defines OC lockout intervals/Lockout can be circumvented	user ID failure, QC failure ves/no	 no/
Device supports bar-code scanning of	operator & patient identifiers, read, lot numbers, comment codes, control	no bar-code scanner
Method of analyst ID/ID required	and linearity lot Nos. bar-code or manual ID entry/analyst ID optional	_
Internal memory size/Max. No. patient results stored	1,000 control test results, 6,000 operators, 6,000 patient IDs, 2,500 patient test results, 18 glucose test strip lots, 20 proficiency test results, 20 glucose linearity test results (1 panel, 5 levels, 4 replicates per level)	250 tests with time & date stamp/250 test results
Information transfer capability: • Meters connect to	Precision Web data management system, which in turn connects to LIS/ HIS	_
 How meters are connected to external system to upload results/ No. installations 	direct serial, modem dial-in, hospital network/—	-
Info. contained in transmission to external system	device unique identifiers, operator and patient IDs, results, QC identifiers, strip lots, comment codes, test dates & times	
Hardware/software for data mgmt. system	Enterprise multi-user Web-based system running on highly redundant Dell server	—
No. of different mgmt. reports system can produce Contents downloaded from DMS to meter	25 strip lot Nos., valid control values, valid operator IDs, patient list, QC lockout and upload lockout parameters	=
System connected (live installations) to which LISs/HISs: • using screen animation/screen scraping	Cerner, Misys, PerSe, Meditech, SoftLab, CPSI, Vista, CHCS, GE Medical, ADAC, HBOC Star, McKesson Horizon Lab, Siemens Novius Lab	-
 using standard HL7 interface using proprietary protocol interface Use 3rd-party interfacing tool/engine for LIS/HIS interfaces 	Cerner, Misys, PerSe, Meditech, SoftLab none ves/Sybase	 no
Distinguishing features (provided by vendors)	TrueID: technology to identify patients by name, gender, date of birth, alphanumeric data entry; TrueMeasure: test-strip technology detects adequate sample and minimizes chemical interference; TrueAccess: notification and lock-out technology helps ensure compliance with	24-hour optional control solution reminder; top-of-meter strip insertion; strip release button; backlight display

procedures

	Arkray Inc.	HemoCue Inc.
	5198 W. 76th St. Edina. MN 55439	40 Empire Dr. Lake Forest. CA 92630-2244
	800-818-8877	800-323-1034
Part 2 01 6	www.arkrayusa.com	www.hemocue.com
Name of instrument/First year sold	Assure 4/2007	Glucose 201 DM Analyzer/2005
Professional or home use	professional use	professional use
List price Units sold in U.S./Outside U.S./In 2008	tree with competitive trade out	-
Part of series of similar or related models	yes	yes
Dimensions (H x W x D)/Weight Analytical method/Technology/Enzyme system used	$3.9 \times 2.3 \times 1.0$ in/2.5 oz without batteries glucose oxidase	6.7 × 3.7 × 2 In/0.77 lb absorbance photometry/glucose dehydrogenase
Price per disposable reagent system unit	contact sales representative	_
No. of dispos. reag. system units per basic package No. of times analyses performed using 1 reag. system unit	50 or 100 1	25 in vial/box; 4 vials/boxes per package 1
Dispos. units shelf life/Reag. unit storage requirements	18 months/room temperature	9 months from manufacture date/refrigeration
Digital readout size/Keypad input capability	—/none	varies from 8 to 28 points/menu selection, numeric, alphabetic
How results are displayed	true values	calculated values (plasma equivalent values [11%] measured whole blood value x 1.11)
Specimen types/Sampling techniques	whole blood/capillary transfer	whole blood (capillary, venous, arterial)/exact amount of blood drawn
Minimum specimen volume required	1.5 µL	5 μL
Suitable for samples from well/Sick neonates	no/no 10 seconds	yes/no (may require laboratory confirmation)
Batteries used/No. used/Avg. life of one set	1.5 V alkaline AAA/2/3,000 tests	rechargeable lithium ion supplied by HemoCue/—/several years
Avg. expected life of device/Mean time between failures Device warranty/Service ontions	— 5 years/—	7 years/>5 years 2 years, at no additional cost/renlacement of defective analyzer
		- ,
Loaners provided	yes	yes
User list or user group Toll-free No. for customer questions/Hours	no 800-818-8877/24 hours. 7 days	no 800-323-1674. 6 дм=5 рм РST
Training and certif. program/No. training days provided	yes/as needed	yes/~1 hour per device purchased
Avg. time for lab to complete maintenance Special cleansing procedures	weekly: 5 minutes	daily: ≤5 minutes no
Internal QC recommended or required	as specified by accreditation	one level of controls prior to patient testing, each day of testing
Between instrument CV (based on PT) at these levels:	_	nat available
• 100–200 mg/dL	_	3.8
 >400 mg/dL Program name year/Challenge No /Level of mean plucose challenge sample 	-	≥272 mg/dL=2.9 Faualis (Swedish PT program), 2003/2003_03; 2003_07/272 mg/dL: 120
		mg/dL
Accuracy/Compared to what reference method or device	slope=1.010/r=0.993/ YSI glucose analyzer	$\pm 10\%$ or $\pm 6\%$ mg/dL; corr=0.994/wet chemical glucose dehydrogenase,
Precision/Compared to what reference method or device	4.1%/—	ID-GCMS within run CV 1.9% (108 mg/dL)/—
	20. EE0 ma/dl	0.444 mg/dl
Linear range Suggested dynamic, measurement range	30–550 mg/dL 30–550 mg/dL	0–444 mg/dL 0–444 mg/dL
Contraindications	no	no
Known interferences/High-altitude interference	per labeling/no (tested up to 7,000 feet)	grossly lipemic samples, methemoglobin, glucosamine/no
Restrictions based on hematocrit	yes, 30%55%	no
Electronic, optical function checks	sumcheck functions for electronics and software, no optics	internal electronic self-test automatically checks that the instrument's
Sample quantity checks	_	optronic unit is working properly visual inspection
When auto lock or shutdown occurs	_	user ID failure if configured to require operator ID; QC failure if configured
User defines QC lockout intervals/Lockout can be circumvented	no/—	to require quality control; number of device errors yes/no (stat testing may be allowed; 1–100 tests after OC interval)
Device supports bar-code scanning of	no bar-code scanner	operator & patient identifiers, reagent lot Nos., comments, log entries
Method of analyst ID/ID required		lab ID alnhanumeric manual entry or har-code scan entry/entional
Internal memory size/May. No. nationt results stored	50-tect memory/50	4 000 nations tacts/500 00 tacts 500 analyzer las antijas (4 000
	JU-LEST INGUIDA AND	www.patient.tests/souridy.tests, sour analyzer log entries/4,000
Information transfer capability: • Meters connect to	_	analyzer connects to 201 DM docking stations (data management sys-
 How meters are connected to external system to upload results/ 	_	tem, which can further transmit data) direct USB/hospital network
No. installations		device unique identifiers enerator & nationt IDs results OC identifiers
י ההט. כטוונמווכט זו נרמוסווויססטוו נט פאנפרוומו System	—	POCT-1A standard compliant, date/time, lab ID, flags
Hardware/software for data mgmt. system	_	PC/server/HemoCue 201 DM–DMS software
No. of different mgmt. reports system can produce	_	15 different templates, custom reports based on templates, multiple
Contents downloaded from DMS to meter		export formats cuvette lot No., valid control values, valid operator IDs, comments
		analyzer log entries, analyzer configuration
System connected (live installations) to which LISs/HISs: • using screen animation/screen scraping	=	_
e using standard UI 7 interfere		
using proprietary protocol interface	-	-
Use 3rd-party interfacing tool/engine for LIS/HIS interfaces	-	Telcor QML/Quick-Linc, Radiometer Radiance, Conworks POCcelerator
Distinguishing features (provided by vendors)	small sample size: 1.5 μ L; fast test time: 10 seconds; large strip handle	POCT-1A compliant; indicated for diagnosis of diabetes mellitus; not hematocrit dependent

	HemoCue Inc.	ITC 9 Olean Aug
	Lake Forest, CA 92630-2244	Edison, NJ 08820
P+ 0 .4 C	800-323-1034	800-631-5945
Part 3 or o	www.hemocue.com	www.itcmea.com
Name of instrument/First year sold	Glucose 201 Analyzer/2002	IRMA TRUpoint (glucose module)
Professional or home use	professional use	professional use
List price Units sold in U.S./Outside U.S./In 2008	-	\$350
Part of series of similar or related models	yes	no
Dimensions (H x W x D)/Weight Analytical method/Technology/Enzyme system used	6.3 × 3.4 × 1.7 in/0.77 lb absorbance photometry/glucose dehydrogenase	5 × 9.5 × 13.5 in/6 lb (IRMA TRUpoint) glucose only: reflectance photometry, glucose oxidase
		gradodo diny. Ponocando proteinou y gradodo dinado
Price per disposable reagent system unit	-	-
No. of dispos. reag. system units per basic package	25 in vial/box; 4 vials/boxes per package	50 strips
No. of times analyses performed using 1 reag, system unit Dispos, units shelf life/Reag, unit storage requirements	1 9 months from manufacture date/refrigeration	1 strip: 18 months/room temperature
Divide law dead along Warned investments in the	05 in faces	
How results are displayed	u.5 in/none plasma equivalent values	4.5 x 2.5 in/menu selection, numeric, alphabetic true values
Specimen types/Sampling techniques	whole blood, venous, canillary, or arterial/exact amount of blood is drawn	whole blood/dron_canillary transfer_touchable strin
	into the cuvette by capillary force	
Minimum specimen volume required Suitable for samples from well/Sick neonates	5 μL —	1 drop ves/ves
Time from sample intro. to result availability	40–240 seconds	<45 seconds
Batteries used/No. used/Avg. life of one set	AA/4/150 hours 7 years/>5 years	rechargeable NIMH battery/1/3 years
Device warranty/Service options	2 years at no extra cost/—	1 year/extended warranty service available
Loaners provided	ves	24-hour renjacement upon request
	ycs	
User list or user group Toll-free No. for customer questions/Hours	— 800-323-1674 бам—5 рм PST	yes 800-631-5945/24 hours 7 days
Training and certif. program/No. training days provided	yes/as needed	yes/depends on No. of operators
Avg. time for lab to complete maintenance	daily: ≤5 minutes	clean glucose module as needed, 2 minutes
Internal QC recommended or required	system must be verified on testing days using commercially available controls	based on hospital-specific policy
Between instrument CV (based on PT) at these levels:		
• <50 mg/dL • 100_200 mg/dl	not available	4.39% 3.44%
• >400 mg/dL	≥272 mg/dL=2.9	4.97%
Program name, year/Challenge No./Level of mean glucose challenge sample	Equalis (Swedish PT program), 2003/2003-03; 2003-07/272 mg/dL; 120	data from 2000 AACC poster
Accuracy/Compared to what reference method or device		r > 0.09/VCI
Accuracy/compared to what reference method or device	\pm 10% or ±6 mg/dL; corr=0.994/wet chemical glucose denydrogenase, ID-GCMS	r >0.98/151
Precision/Compared to what reference method or device	within run CV 1.9% (108 mg/dL)/—	3.44–4.97 CV across runs/—
Linear range	0–444 mg/dL	0–500 mg/dL
Suggested dynamic, measurement range Contraindications	0–444 mg/dL no	0–500 mg/dL excessive H_0 loss or dehvdration
Known interferences/Hinh-altitude interference	grossly linemic samples, methemoglobin, glucosamine/no	sodium fluoride/no
Restrictions based on hematocrit		vas ~25% high results >60% low results
Electronic, optical function checks	internal electronic self-test automatically checks that the instrument's optronic unit is working properly	optical self-zeroing; has LED to detect errors & internal check strip that is part of strip holder, automatically done with every test
Sample quantity checks	visual inspection	
		uses LED to determine sufficient quantity
When auto lock or shutdown occurs	-	uses LED to determine sufficient quantity user ID failure, QC failure, lockout if reagent expired or if control lot & reagent not entered
When auto lock or shutdown occurs User defines QC lockout intervals/Lockout can be circumvented	 no/no	uses LED to determine sufficient quantity user ID failure, QC failure, lockout if reagent expired or if control lot & reagent not entered yes/no
When auto lock or shutdown occurs User defines QC lockout intervals/Lockout can be circumvented Device supports bar-code scanning of	 no/no no bar-code scanner	uses LED to determine sufficient quantity user ID failure, QC failure, lockout if reagent expired or if control lot & reagent not entered yes/no bar-code scanner available
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	— no/no no bar-code scanner —	uses LED to determine sufficient quantity user ID failure, QC failure, lockout if reagent expired or if control lot & reagent not entered yes/no bar-code scanner available touchscreen/optional or required, QA user setup
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. patient results stored	— no/no no bar-code scanner — —	uses LED to determine sufficient quantity user ID failure, QC failure, lockout if reagent expired or if control lot & reagent not entered yes/no bar-code scanner available touchscreen/optional or required, QA user setup 4 MB RAM, 4 MB ROM, 256 KB nonvolatile/200 patient results
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. patient results stored Information transfer capability:	— no/no no bar-code scanner — —	uses LED to determine sufficient quantity user ID failure, QC failure, lockout if reagent expired or if control lot & reagent not entered yes/no bar-code scanner available touchscreen/optional or required, QA user setup 4 MB RAM, 4 MB ROM, 256 KB nonvolatile/200 patient results
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. patient results stored Information transfer capability: • Meters connect to		uses LED to determine sufficient quantity user ID failure, QC failure, lockout if reagent expired or if control lot & reagent not entered yes/no bar-code scanner available touchscreen/optional or required, QA user setup 4 MB RAM, 4 MB ROM, 256 KB nonvolatile/200 patient results data management system, which connects to LIS/HIS; also directly to LIS/HIS
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. patient results stored Information transfer capability: • Meters connect to • How meters are connected to external system to upload results/	— no/no no bar-code scanner — — —	uses LED to determine sufficient quantity user ID failure, QC failure, lockout if reagent expired or if control lot & reagent not entered yes/no bar-code scanner available touchscreen/optional or required, QA user setup 4 MB RAM, 4 MB ROM, 256 KB nonvolatile/200 patient results data management system, which connects to LIS/HIS; also directly to LIS/HIS direct serial/—, modem dial-in/—, Ethernet/—
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. patient results stored Information transfer capability: • Metters connect to • How meters are connected to external system to upload results/ No. installations • Info. contained in transmission to external system	— no/no no bar-code scanner — — —	uses LED to determine sufficient quantity user ID failure, QC failure, lockout if reagent expired or if control lot & reagent not entered yes/no bar-code scanner available touchscreen/optional or required, QA user setup 4 MB RAM, 4 MB ROM, 256 KB nonvolatile/200 patient results data management system, which connects to LIS/HIS; also directly to LIS/HIS direct serial/—, modem dial-in/—, Ethernet/— device unique identifiers, operator & patient IDs, results. OC identifiers.
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. patient results stored Information transfer capability: • Metters connect to • How meters are connected to external system to upload results/ No. installations • Info. contained in transmission to external system	— no/no no bar-code scanner — — —	uses LED to determine sufficient quantity user ID failure, QC failure, lockout if reagent expired or if control lot & reagent not entered yes/no bar-code scanner available touchscreen/optional or required, QA user setup 4 MB RAM, 4 MB ROM, 256 KB nonvolatile/200 patient results data management system, which connects to LIS/HIS; also directly to LIS/HIS direct serial/—, modem dial-in/—, Ethernet/— 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
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. patient results stored Information transfer capability: • Meters connect to • How meters are connected to external system to upload results/ No. installations • Info. contained in transmission to external system	—	uses LED to determine sufficient quantity user ID failure, QC failure, lockout if reagent expired or if control lot & reagent not entered yes/no bar-code scanner available touchscreen/optional or required, QA user setup 4 MB RAM, 4 MB ROM, 256 KB nonvolatile/200 patient results data management system, which connects to LIS/HIS; also directly to LIS/HIS direct serial/—, modem dial-in/—, Ethernet/— 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 nondedicated IBM compatible PC. Integrated Data Management System
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. patient results stored Information transfer capability: • Meters connect to • How meters are connected to external system to upload results/ No. installations • Info. contained in transmission to external system		uses LED to determine sufficient quantity user ID failure, QC failure, lockout if reagent expired or if control lot & reagent not entered yes/no bar-code scanner available touchscreen/optional or required, QA user setup 4 MB RAM, 4 MB ROM, 256 KB nonvolatile/200 patient results data management system, which connects to LIS/HIS; also directly to LIS/HIS direct serial/—, modem dial-in/—, Ethernet/— 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 nondedicated IBM compatible PC, Integrated Data Management System
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. patient results stored Information transfer capability: • Meters connect to • How meters are connected to external system to upload results/ No. installations • Info. contained in transmission to external system Hardware/software for data mgmt. system No. of different mgmt. reports system can produce		uses LED to determine sufficient quantity user ID failure, QC failure, lockout if reagent expired or if control lot & reagent not entered yes/no bar-code scanner available touchscreen/optional or required, QA user setup 4 MB RAM, 4 MB ROM, 256 KB nonvolatile/200 patient results data management system, which connects to LIS/HIS; also directly to LIS/HIS direct serial/—, modem dial-in/—, Ethernet/— 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 nondedicated IBM compatible PC, Integrated Data Management System 6
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. patient results stored Information transfer capability: • Metters connect to • How meters are connected to external system to upload results/ No. installations • Info. contained in transmission to external system Hardware/software for data mgmt. system No. of different mgmt. reports system can produce Contents downloaded from DMS to meter		uses LED to determine sufficient quantity user ID failure, QC failure, lockout if reagent expired or if control lot & reagent not entered yes/no bar-code scanner available touchscreen/optional or required, QA user setup 4 MB RAM, 4 MB ROM, 256 KB nonvolatile/200 patient results data management system, which connects to LIS/HIS; also directly to LIS/HIS direct serial/—, modem dial-in/—, Ethernet/— 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 nondedicated IBM compatible PC, Integrated Data Management System 6 strip lot Nos., valid control values, valid operator IDs
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. patient results stored Information transfer capability: • Meters connect to • How meters are connected to external system to upload results/ No. installations • Info. contained in transmission to external system 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		uses LED to determine sufficient quantity user ID failure, QC failure, lockout if reagent expired or if control lot & reagent not entered yes/no bar-code scanner available touchscreen/optional or required, QA user setup 4 MB RAM, 4 MB ROM, 256 KB nonvolatile/200 patient results data management system, which connects to LIS/HIS; also directly to LIS/HIS direct serial/—, modem dial-in/—, Ethernet/— 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 nondedicated IBM compatible PC, Integrated Data Management System 6 strip lot Nos., valid control values, valid operator IDs major vendors
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. patient results stored Information transfer capability: • Metters connect to • How meters are connected to external system to upload results/ No. installations • Info. contained in transmission to external system Mo. 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		uses LED to determine sufficient quantity user ID failure, QC failure, lockout if reagent expired or if control lot & reagent not entered yes/no bar-code scanner available touchscreen/optional or required, QA user setup 4 MB RAM, 4 MB ROM, 256 KB nonvolatile/200 patient results data management system, which connects to LIS/HIS; also directly to LIS/HIS direct serial/—, modem dial-in/—, Ethernet/— device unique identifiers, operator & patient IDs, results, QC identifiers, result flags, reference range/QC limits, software revision, sample types nondedicated IBM compatible PC, Integrated Data Management System 6 strip lot Nos., valid control values, valid operator IDs major vendors major vendors
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. patient results stored Information transfer capability: • Meters connect to • How meters are connected to external system to upload results/ No. installations • Info. contained in transmission to external system No. of different mgmt. reports system can produce Contents downloaded from DMS to meter System connected (live installations) to which LISs/HISs: • using standard HL7 interface • using standard HL7 interface		uses LED to determine sufficient quantity user ID failure, QC failure, lockout if reagent expired or if control lot & reagent not entered yes/no bar-code scanner available touchscreen/optional or required, QA user setup 4 MB RAM, 4 MB ROM, 256 KB nonvolatile/200 patient results data management system, which connects to LIS/HIS; also directly to LIS/HIS direct serial/—, modem dial-in/—, Ethernet/— 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 nondedicated IBM compatible PC, Integrated Data Management System 6 strip lot Nos., valid control values, valid operator IDs major vendors major vendors major vendors
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. patient results stored Information transfer capability: • Meters connect to • How meters are connected to external system to upload results/ No. installations • Info. contained in transmission to external 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	no/no no bar-code scanner	uses LED to determine sufficient quantity user ID failure, QC failure, lockout if reagent expired or if control lot & reagent not entered yes/no bar-code scanner available touchscreen/optional or required, QA user setup 4 MB RAM, 4 MB ROM, 256 KB nonvolatile/200 patient results data management system, which connects to LIS/HIS; also directly to LIS/HIS direct serial/—, modem dial-in/—, Ethernet/— 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 nondedicated IBM compatible PC, Integrated Data Management System 6 strip lot Nos., valid control values, valid operator IDs major vendors major vendors none yes, through laboratory data systems

	LifeScan Inc. Healthcare Professional Line 1000 Gibraltar Dr., Milpitas, CA 95035-6312 800-524-7226	Medtronic MiniMed Inc. 18000 Devonshire St. Northridge, CA 91325 800-646-4633
Part 4 of 6	www.lifescan.com	www.minimed.com
Name of instrument/First year sold	SureStepFlexx/2000	iPro Continuous Glucose Monitor (CGM)/2008
Professional or home use List price	professional use \$1,200 with bar-code scanner/\$1,300 with bar-code scanner, meter unlock, and bar-code scan required features/\$850 without bar-code scanner	professional use \$35 per unit for glucose sensor; \$1,299 for CGMS iPro starter kit
Units sold in U.S./Outside U.S./In 2008 Part of series of similar or related models Dimensions (H x W x D)/Weight Analytical method/Technology/Enzyme system used Price per disposable reagent system unit	>44,000/>4,000/>3,000 yes $6.34 \times 3.55 \times 1.63$ in/12.5 oz (with bar-code scanner), 12.1 oz (without) reflectance photometry/glucose oxidase by contract, volume	— yes (third-generation professional CGM system) —/<5 grams glucose oxidase \$35 unit glucose sensor (disposable)
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	Two 25-strip vials (50 strips per box) 1 18 months unopened/<30°C (86°F); away from heat, direct sunlight	10 per box 1 sensor lasts 72 hours 6 months/non-refrigeration 36°–80°F (2°–27°C)
Digital readout size/Keypad input capability	18-point font (16 pixels high, 8 pixels wide)/menu select., numeric,	no patient monitor interface/blinded glucose values, retrospective data
How results are displayed	alphabetic true values	at time of iPro recorder download, system displays 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
Specimen types/Sampling techniques Minimum specimen volume required	whole blood (capillary, venous, arterial, neonatal)/drop, capillary transfer, touchable strip, off-meter dosing 5 uL. maximum 30 uL	continuous monitoring and sampling of interstitial fluid glucose levels
Suitable for samples from well/Sick neonates Time from sample intro, to result availability	yes/yes 15-second minimum	no/yes (with diabetes) retrospective analysis after disconnection
Batteries used/No. used/Avg. life of one set Avg. expected life of device/Mean time between failures	AA/3/1,000 test minimum 5-year minimum/<10% warranty return rate	rechargeable battery, iPro CGM charger, AAA/1/— 1 year/—
Device warranty/Service options Loaners provided	1 year/extended service agreements available 24-hour replacement with new device	6 months for iPro Recorder/no warranty on disposables no
User list or user group	yes (contact SureStepFlexx product manager)	no
Toll-free No. for customer questions/Hours Training and certif. program/No. training days provided	800-524-7226/24 hours, 7 days, multiple languages yes/as negotiated	800-646-4633/— yes (training only)/~1 day
Avg. time for lab to complete maintenance Special cleansing procedures	<1 minute no	none no
Internal QC recommended or required Between instrument CV (based on PT) at these levels:	as defined by hospital policy	none
• <50 mg/dL • 100–200 mg/dL	2.5% 2.9%	
	2.4% data from 2000 & 2001 AACC posters	
Accuracy/Compared to what reference method or device	r>0.98/YSI	coefficient of variation (CV) of 5%/fingerstick blood glucose
Precision/Compared to what reference method or device	3.44–4.97 CV across runs/—	measurements —/glucose meters, HemoCue, YSI (any and all)
Linear range Suggested dynamic, measurement range	0–500 mg/dL 0–500 mg/dL	 40-400 mg/dL
Contraindications Known interference	excessive water loss or dehydration sodium fluoride/no	not recommended for use by those with impaired vision or hearing possibly MRI/no
Restrictions based on hematocrit	adults: 25%–60%; neonates: 25%–65%	
Sample quantity checks	automatic electronic and optical checks with each test test strip color confirmation dot when adequate sample applied; meter error messages	test plug, 24–29nA none
When auto lock or shutdown occurs	user ID failure, QC failure, failure to transfer data	none
Device supports bar-code scanning of	operator & patient identifiers, reagent (strip) lot Nos., control solution lot Nos., meter serial Nos.	no bar-code scanner
Method of analyst ID/ID required Internal memory size/Max. No. patient results stored	unique alphanumeric ID/optional (defined by location) 256 KB/1,500 patient +QC tests, 50-test strip lots and 50 QC lots	at time of monitor download/optional up to 14 days continuous data/288 readings per day
Information transfer capability:	OneTouch DataLink data management system via wireless network, network and modem connectivity solutions. OneTouch DataLink can be	iPro Recorder connects via ComLink to a serial port
How meters are connected to external system to upload results/	interfaced to LIS/HIS OneTouch DataLink Connect connectivity solutions; wireless/network,	serial port or USB port depending on meter/—
No. installations Info. contained in transmission to external system 	modem connectivity/1400 hospital sites, DataLink Interface >600 device unique identifiers, operator & patient IDs, results, QC identifiers, result flags, location/site	sensor values, meter values and events (meals, insulin, exercise and other)
Hardware/software for data mgmt. system	hardware independent/OneTouch DataLink data management system in- stallation CD for Windows Vista & XP Pro; Telcor QML; OneTouch DataLink Web using Microsoft Windows Server 2002/2009	ComLink for iPro CGM and Solutions Software
No. of different mgmt. reports system can produce Contents downloaded from DMS to meter	12 standard, unlimited customized reports, TGC advisor strip lot Nos., valid control values, valid operator IDs, critical value	5 standard unlimited customized reports —
System connected (live installations) to which LISs/HISs: • using screen animation/screen scraping	Cerner Citation, Cerner Classic, Cerner Premier, CHCS, HMS, McKesson	does not interface LIS or HIS, a report from software–nontransferable no
a using alandard [11.7 interface	ALG, MCKesson Star Financial, MCKesson Star Lab, Meditech Magic, RPMS, Sunquest, SoftLab Non-GUI, VistA	
• using standard HL7 interface	Cerner Classic, Cerner Millennium, CPSI, Edypsis, EPIC, Tatrics, Meckesson Horizon Lab, McKesson Paragon, McKesson Horizon Clinicals, Medis- erve, MediSolutions, Meditech Client Server, Meditech Magic, Meditech MagicHCA, Sunquest, Sunquest IGO, Omnetech, OpusLab, Siemens Invision, Siemens Novius Lab, Siemens LCR, SoftLab, TripleG, VistA, Repositories and Engines	no
 using proprietary protocol interface Use 3rd-party interfacing tool/engine for LIS/HIS interfaces 	none yes, Telcor QML	no no
Distinguishing features (provided by vendors)	no risk of interference from maltose, xylose, or galactose; off-meter dosing helps with infection control policies: configurable bar-code	continuous glucose values collected (every 5 minutes); up to 14 days of data: blood glucose values from by meter and events (meals insulin
	scanning options—allows truncation of leading and trailing characters; bar-code scan required feature; unique meter unlock; hardware- indepen. OneTouch DataLink data mgmt. software; wireless connectivity; compatible w/Telcor's QML; flexible database options; Citrix support	exercise) downloaded into Solution Software

	Nova Biomedical Sales Department info@novabio.com	Roche Diagnostics Accu-Chek Customer Care Service Center
	200 Prospect St. Waltham, MA 02454	9115 Hague Rd., Indianapolis, IN 46256 800-440-3638
Part 5 of 6	781-894-0800 or 800-458-5813 www.novabiomedical.com	www.roche-diagnostics.us
Name of instrument/First year sold	StatStrip Glucose Monitoring System/2006	AccuData GTS, 1994; AccuData GTS Plus, 2000 professional use
Professional or home use List price	professional use call for pricing, includes bar-code reader, spare battery, quick reference guide	\$550
Units sold in U.S./Outside U.S./In 2008 Part of series of similar or related models	— yes	40,000*/5,000/— yes
Dimensions (H $ imes$ W $ imes$ D)/Weight Analytical method/Technology/Enzyme system used	6.0 × 3.25 × 1.8 in/0.8 lb electrochemistry	11 × 8.75 × 4 in/5 lb biosensor-alucose dehvdrogenase
Price per disposable reagent system unit	pricing based on volume	contingent on contract price
No. of dispos. reag. system units per basic package No. of times analyses performed using 1 reag. system unit	50 strips per vial and 100 per box 1 24 menths from data of manufacture (none	50 strips per vial 1 19 monthe, stable until expiration on vial/~90°E do not freeze
Dispus, units shen me/neag, unit storage requirements	24 months non-uale or manufacture/none	A lines by 20 sharesters I CD/many selection sumaries
How results are displayed	true values	true values
Specimen types/Sampling techniques	whole blood/drop (arterial, venous, capillary, neonatal)	whole blood/arterial, venous, capillary, neonate (including cord blood)
Minimum specimen volume required Suitable for samples from well/Sick neonates	1.2 µL yes/yes	4 μL ves/ves
Time from sample intro. to result availability Batteries used/No. used/Avg. life of one set	6 seconds 3.7 Li Polymer (rechargeable/replaceable)/1/24–36 months	26 seconds 3 V lithium/2/~700 tests
Avg. expected life of device/Mean time between failures	5+ years/— 2 years/—	5 years/10,000 tests
	2 years (extended 5-year warranty at auditional cost)/meter replacement	workmanship through life of Accu-Chek Comfort Curve test strip contract;
		days per year
	yes	
User list or user group Toll-free No. for customer questions/Hours	no 800-458-5813/24 hours, 7 days, all year	yes (contact local account manager) 800-440-3638/24 hours, 365 days per year
Training and certif. program/No. training days provided Avg. time for lab to complete maintenance	yes/defined during implementation planning no user maintenance	yes/site-specific according to No. of employees none
Special cleansing procedures	no	no
Internal QC recommended or required Between instrument CV (based on PT) at these levels:	CLIA requirements 2 levels per day	daily, 2 levels
• <50 mg/dL • 100–200 mg/dL	-	53.8 mg/dL SD=4.1 (6,088 labs) 191.4 mg/dL CV=4.7% (3,096 labs)
 >400 mg/dL Program name, year/Challenge No./Level of mean glucose challenge sample 		228.5 mg/dL CV=4.6% (6,099 labs) CAP. 2001/WBG-C/see above
Accuracy/Compared to what reference method or device	R2=0.9978_slone=1.0127-2.0975/YSI 2300	v=0.991 x + 8.4. r=0.980/glucose bexokinase-Hitachi
Precision/Compared to what reference method or device	within run (whole blood=1.9%-3.6%) & (day to day=3.4%-4.7%) linearity standards/	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%/alucose beyokinase
Linear range Suggested dynamic measurement range	10-600 mg/dL	10-600 mg/dL
Contraindications		per labeling
Rown interferences/High-altitude interference Restrictions based on hematocrit	none/no, operates at altitudes up to 15,000 feet none (no Hct interference)	per labeling/none up to 10,150 teet yes, glucose <200 mg/dL, 20%–65%; glucose >200, 20%–55%
Electronic, optical function checks	electronic checks for out-of-range glucose results, dosing, out-of-range Hct results	meter cradle communication with Advantage meter, GTS with code key, battery voltage test, internal database memory check, internal
Sample quantity checks	RapidFill sampling electronically checks for correct strip dosing	configuration check built-in electronic strip check, visual confirmation of sample volume
When auto lock or shutdown occurs	options include user ID failure, QC failure, required docking for data transfer	user ID failure (valid op.), QC failure, patient ID length, incorrect code key, incorrect Advantage meter
User defines QC lockout intervals/Lockout can be circumvented	yes/no, not if configured	yes/yes (information management system identifies operators who violate hospital policy)
Device supports bar-code scanning of Method of analyst ID/ID required	operator & patient identifiers, reagent, lot No., QC lots medical record ID No., medical billing ID No., Accession ID No./ID required	operator & patient identifiers, comment codes numeric input or bar-code wand scan/yes
Internal memory size/Max. No. patient results stored	1,000 patient samples, 200 QC samples, 4,000 operators/1,000 tests	1,000 total patient, control, linearity, proficiency tests/1,000
Information transfer capability:		
Meters connect to	Instrument Manager (NovaNet or Laboratory Data Systems AegisPOC) to Data Manager (Telcor QML/Quick-Linc or AegisPOC) then to LIS if required	information management system, which in turn connects to LIS/HIS
How meters are connected to external system to upload results/ No installations	hospital network/—	direct serial/—, modem dial-in/—, hospital network/—
Info. contained in transmission to external system	device unique identifier, operator & patient IDs, results, QC identifiers	device unique identifiers, operator & patient IDs, results, QC identifiers, strip lot Nos., download location, comment codes, proficiency & linearity
		samples
Hardware/software for data mgmt. system No. of different mgmt. reports system can produce	connects to Telcor QML and Laboratory Data Systems AegisPOC provided by Telcor and Laboratory Data Systems	MAS RALS-Plus, MAS RALS-Lite†, MAS RALS-Notebook [†] varies by Data Manager (customer defined)
Contents downloaded from DMS to meter	strip lot numbers, valid control values, valid operator IDs, patient demographics, configuration files, physician IDs, diagnostic codes	strip & QC lot Nos., valid operator IDs, valid control values, linearity values
System connected (live installations) to which LISs/HISs: • using screen animation/screen scraping	available through Telcor & Laboratory Data Systems available through Telcor & Laboratory Data Systems	all major LIS vendors including Cerner, Misys, McKesson, Meditech, SoftLab. Siemens. SIA Molis. Opus. others**
using standard HL7 interface using proprietary protocol interface	yes no	
Use 3rd-party interfacing tool/engine for LIS/HIS interfaces	yes, Telcor QML/Quick-Linc, Laboratory Data Systems AegisPOC	MAS
Distinguishing features (provided by vendors)	measures and eliminates interferences from hematocrit, oxygen, acetaminophen, ascorbic acid, uric acid, and other electrochemical substances; no interference from maltose, galactose, or xylose; no calibration codes required; results reported in 6 seconds using 1.2 μ L of sample	proven bi-directional network connection from AccuData GTS/GTS Plus to LIS/HIS; ADT data interface with RALS-Plus/DataCare POC; uses the Accu-Chek Comfort Curve test strip; universal sampling due to oxygen-independent chemistry, with reliable results at varying hematocrit levels

*combined AccuData GTS and AccuData GTS Plus sales †Roche exclusive **both scripted/HL7 are available

	Roche Diagnostics Accu-Chek Customer Care Service Center 9115 Hague Rd., Indianapolis, IN 46256 800-440-3638	YSI Life Sciences Jamie Lussier jlussier@ysi.com 1725 Brannum Lane, Yellow Springs, OH 45387 800 659-8895
Part 6 of 6	www.roche-diagnostics.us	www.ysilifesciences.com
Name of instrument/First year sold	Accu-Chek Inform System/2001	YSI 2300 STAT Plus Glucose & Lactate Analyzer/1989
Professional or home use List price Units sold in U.S./Outside U.S./In 2008 Part of series of similar or related models Dimensions (H x W x D)/Weight Analytical method/Technology/Enzyme system used Price per disposable reagent system unit	\$1,200 67,000/10,000/— yes $1.4 \times 3.8 \times 7.6$ in/12 oz biosensor—glucose dehydrogenase contingent on contract price	professional use \$10,600
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	50 test strips 1 18 months, stable until expiration date on vial/room temperature less than 90°F, do not freeze	4 membranes per package time based 3 weeks, 1000+ patient samples 1 year/liquid reagents: room temp.; membrane sensor: 4°C refrigerated
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 one set Avg. expected life of device/Mean time between failures Device warranty/Service options	font size varies/menu selection, numeric, alphabetic true values whole blood/arterial, venous, capillary, neonate (including cord blood) 4 μL yes/yes 26 seconds 3.7 V rechargeable lithium ion/1/testing in progress 5 years/542,000 tests Accu-Chek Inform System will be free from defects in materials & work- manship through life of the Accu-Chek Comfort Curve test strip contract; overnight replacement, according to warranty policy, is available 24/7, 365 days per year replaced under warranty	font hgt: 0.2 in., 2 x 40 alphanumeric LCD/menu selection, numeric true and calculated values plasma, serum, whole blood/probe aspirated 25 µL 35–50 µL, dependent upon tube style yes/yes 65 seconds AC line power/—/— 10 years+/unknown 1 year/on all parts and labor/on-site service, dealer service centers, manufacturer service center in Ohio
User list or user group Toll-free No. for customer questions/Hours Training and certif. program/No. training days provided Avg. time for lab to complete maintenance Special cleansing procedures	yes (contact local account manager) 800-440-3638/24 hours, 365 days per year yes/site-specific according to No. of employees none acceptable active ingredients: water, soap, 70% (or less) isopropyl alco- hol, 1:10 dilution of sodium hydrochlorite	no (YSI 2300 is a reference blood instrument) yes/8 AM-5 PM EST USA yes/onsite: 1 day; vendor office: negotiable daily: 15 min (calibration and check solution sample); weekly: 30 min (buffer solution change); monthly: 30 min (calibration solution and buffer solution change) no
Internal QC recommended or required	daily, 2 levels of glucose control solutions	run a daily third-party control, such as a serum control
 <50 mg/dL <50 mg/dL 100–200 mg/dL >400 mg/dL Program name, year/Challenge No./Level of mean glucose challenge sample 	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	2.5 mg/dL* 2%*
Accuracy/Compared to what reference method or device	y=0.991 x + 8.4, r=0.980/glucose hexokinase-Hitachi	YSI enzyme electrode technology commonly used whole blood glucose standard: YSI 2300 used as reference method for blood glucometer
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	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 per labeling per labeling/none up to 10,150 ft yes, glucose <200 mg/dL 20%–65%; glucose >200 mg/dL 20%–55% meter with code key, battery voltage test, internal database memory	development and glucometer test strip QA hexokinase/UV spectrophotometric compared to plasma glucose: 0 to 900 mg/dL (9,000 mg/L, 50.0 mmol/L) glucose: 0 to 900 mg/dL (9,000 mg/L, 50.0 mmol/L) no none that are biological in nature/no no — (sensor technology is amperometric, not optically based)
Sample quantity checks When auto lock or shutdown occurs User defines QC lockout intervals/Lockout can be circumvented	check, internal configuration check 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, and data editing yes/no (optional QC pass/fail feature)	 calibration instability, low reagent levels, various electromechanical checks related to moving parts
Device supports bar-code scanning of Method of analyst ID/ID required Internal memory size/Max. No. patient results stored	operator & patient identifiers, reagent lot Nos. alphanumeric or bar-code scan/yes 4,000 results/4,000 tests	no bar-code scanner numeric identifier optional/optional —/last 32 results stored in internal buffer accessible by serial port
Information transfer capability: • Meters connect to • How meters are connected to external system to upload results/ No. installations • Info. contained in transmission to external system	information 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 location, download location	— (requires customized software for LIS/HIS interface) — —
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 Distinguishing features (provided by vendors)	MAS RALS-Plus, MAS RALS-Lite*, MAS RALS-Notebook [†] , and MAS RALS-Web varies by Data Manager (customer defined) QC & strip lot Nos., valid control values, valid operator & patient IDs, meter configuration, linearity lot Nos. & values, comments all major LIS vendors including Cerner, Meditech, Misys, CPSI, SoftLab, Siemens, McKesson, SIA Molis, Opus, others** yes 	through custom software, patient ID and results may be retrieved

[†]Roche exclusive **both scripted/HL7 are available depending on LIS version

*based on YSI proof of claims testing