Continuous Glucose Monitors

Brought to you by dexcom SEVEN

Feature	DexCom Seven®	MiniMed Paradigm REAL-Time System	Abbott Freestyle Navigator
Image			
Availablility	Across the U.S.	Across the U.S.	Across the U.S.
FDA approval	For adults 18 and older	For patients 7 years of age to adult	For patients 18 years of age to adult
Communicates with an insulin pump	Planned projects with Animas and Insulet	Yes, communicates with the Paradigm 522 and 722 pumps	No
Price	$999 for starter kit. $240 for sensor 4-pack (1 month.	$999 start up with transmitter and 10 sensors or upgrade with the Pathway Program for current Medtronic pump users. Insulin pump would be handled through insurance coverage and contracts negotiated.	Price is dependent upon distributor.
Insurance coverage	Reimbursement successes are rapidly expanding across the U.S.	Reports of some people obtaining coverage for sensors	Abbott Diabetes Care Reimbursement Support service is available to all and handled on a case-by-case basis 877-423-2463
Accuracy	Median ARD 11.4% (vs. SMBG) * HYPO Clark Error Grid "A" range 69%	MARE: 16.59% - 24.84%% Clark Error Grid - 96% in A+B and 61.7% in A MARD (Mean) - 17.32% MARD (Median) - 12%	Consensus Error Grid: 85.5% A , 99.1% A+B Clarke Error Grid compared to YSI: 81.7% A, 98.4% A+B Mean ARD: 12.8%, Median ARD: 9.3%
Sensor wear/life	7 days	3 days	5 days
Length of sensor probe	13 mm	14 mm	5 mm
Gauge of sensor probe	26 g (0.5 mm)	23 g	21 g
Angle of sensor insertion	45 degrees	45 degrees	90 degrees
Insertion device available	Built-in applicator with each sensor	Sen-serter, manual insertion possible also	Each sensor has a disposable inserter that inserts by pressing a button.
Monitor size	L: 4.5" x W: 2.3" x H: 0.85". Display is 2" x 1.3"	Displays on insulin pump, no separate monitor	2.5" x 3.24" x 0.88"
Start-up initialization time	2 hours	2 hours and 20 minutes	10 hours
Calibration	First cal after 2 hr warm up needs 2 finger-sticks; after that its only 1 each 12 hours Can use any FDA approved meter and does not require a "steady" bg for calibration.	First calibration is 2 hours after insertion. Second calibration 6 hours after first, then every 12 hours. Will alarm if calibration value not entered.	Calibrate at 10, 12, 24, and 72 hours after insertion with no further calibration for the final 2 days of the 5-day wear. May require more calibrations under certain circumstances.
Transmitter/sensor or body surface size	Transmitter: 1.5" x 0.9" x 0.4" Sensor Pod: 2.5" x 1.9"	Sensor the size of a nickel. Transmitter is about the size of a quarter.	2.05" x 1.23" x 0.43"
Alarms on user-set low and high threshholds	Yes, customizable. Can be turned off if user wants. Exclusive Hypo Safety Alarm set at 55 mg/dl cannot be turned off for extra line of defense.	Yes, different sounds for different alarms, different volumes. Extremely loud "back up" alarm if no response to the first alarm.	-
	Note: In clinical trials, some people never respond to alarms at night regardless of the volume. An alarming device (receiver or pump) that is under covers, a pillow, or a body is almost impossible to hear.		
Displays glucose numbers	Every 5 minutes	Every 5 minutes	Every 1 minute

Printer-friendly charts are available at www.DiabetesHealth.com/charts

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Displays directional trends	Yes, 1,3,9 hour trend screens. Additional planned screens planned.	Yes, arrows that display how fast and in what direction, and 3 and 24 hour graphs	Yes, TRU™ Directional Arrow™ indicators
Displays rate of change	Yes	Yes	Yes
Alarms on vector technology	Planned	No	Yes, predictive alarm 10 to 30 minutes before it thinks you will hit that number, based on the current trend. It estimates a future number by using algorithms and vector technology.
Alarms: vibrate, alarm, or both	Both	Vibrate, Escalating Alarm, or both	3 levels of auditory, 3 vibration durations
Transmitter water-resistant	Yes	Yes	Yes
Transmitter batteries	Built into transmitter, 1 year warranty	Rechargeable. Transmitter life about one year. Additional transmitter $999 (will come with another 10 sensors at that time).	Watch batteries
Monitor batteries	Rechargeable, recharge every 3-5 days based on use.	Displayed on Paradigm 522 or 722 insulin pump which requires one AAA battery. Pump alerts when change is needed.	3 AAA batteries. Replace every 3 months
Range of monitor to transmitter (Factory Stated)	5 feet	6 feet	10 feet
Sensor storage: refrigerated or room temperature	Room temperature, 4 month life	6 month life at room temperature	4 months at 37-86 degrees F
Snooze alarm feature	Planned	Yes, both high and low alarms settings differ	Yes, 1 hour silence
Built in BG monitor	Not built in	No	Yes
Computer software	Yes. DM2.	Carelink or Solutions	CoPilot for FreeStyle Navigator available in 2009
Warranty	1 year on receiver and transmitter	6 months on transmitter, 4 years on insulin pump	One year warranty for receiver and transmitter
Money-back guarantee	30 day money back guarantee	30 day return policy for transmitter	30 day return policy for system kit
Official product website	www.dexcom.com	www.medtronicdiabetes.com	www.FreeStyleNavigator.com