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Continuous Glucose Monitor Comparison

Continuous Glucose Monitor Comparison		
Company	Dexcom®	Medtronic MiniMed, Inc.
Model	Dexcom® Platinum G4, Platinum G4 Pediatrics	Minimed Guardian® REAL-Time
Product Picture		
FDA Approval	Adults +18	Children 7-17, adults 18+
Communicates with insulin pump	No	Yes Revel 523 and 723. (Sof-Sensor and Enlite sensors), 751 and 551 530G insulin pumps (Enlite sensor only)
Sensor life	7 days	3 days (Sof-sensor), 6 days (Enlite sensor)
Calibration	Every 12 hours	First calibration 2 hours after insertion; 6 hours after first, then every 12 hours. Will alarm if calibration not entered.
Wireless range	20 feet	6 feet
Frequency of BG readings	Every 5 minutes	Every 5 minutes
Glucose range	40-400 mg/dL	40 - 390 (530G 551/751, Revel 523/723 Guardian), 90-390 (Revel 523K/723K)
Accuracy	Clarke Error Grid A + B:96% Clarke Error Grid A:80%, Continuous Error Grid: accurate readings hypoglycemia 83%, euglycemia 97%, hyperglycemia 94%	Clarke Error Grid A + B:97.3% Continuous Error Grid: hypoglycemia 90.1%
Receiver memory data	30 days	Yes, transmitter stores up to 40 minutes of missed data. Weak signal alarm.
Early warning alarms (hypo hyperglycemia)	Yes, trend arrows – see displays rate of change	High and low snooze alerts in 15 minute increments up to 3 hours, set hyperglycemia limit between 110 - 400 mg/dL and hypoglycemia between 40 and 390 mg/dL
Sensor insertion length	13 mm (needle guide removed after cannula inserted)	9 mm, 27 Gauge
Angle of sensor insertion	45 degrees	90 degrees
Insertion device	Manual - push plunger to insert sensor	User assembles sensor into inserter before inserting
Receiver dimensions (length x width x thickness)	4.0 x 1.8 x 0.5 Colors - black, blue, pink weight 2.5 oz	2 x 3.2 x 0.77 in. weight 2.7 oz
Start-up initialization time	2 hours	2 hours
Displays directional arrows	Directional graph with trend graph over past 1,3,6,12 or 24 hours, speed of glucose change	Yes, arrows display how fast and in what direction, 3,6,12 and 24-hour graphs
Developing technology	Integrated with Animas Vibe - approved in Europe	Compatible with Minimed Revel and Minimed 530G insulin pumps
Transmitter dimensions (length x width x thickness)	Transmitter 1.5 x 0.9 x 0.4 in Weight 0.36 oz (includes sensor pod)	Sensor 2.46 x 2.50 x 1.87 inches, 6.25 grams; transmitter 1.4 x 1.1 x 0.3, attaches to sensor
Minimum # of calibrations	Twice daily	Twice a day per sensor
Displays rate of change	Trend arrow display options: constant, slowly rising or falling 1-2 mg/dL per minute, falling or rising 2-3 mg/dL per minute, rapidly falling or rapidly rising more than 3 mg/dL per minute, no arrow - receiver cannot always calculate rate of glucose change.	Yes, predictive alert, single and double arrows up or down communicate how fast glucose levels are falling or rising. Rate of change alerts can be set to warn when glucose levels change between 1.1 to 5 mg/dl/min in 0.1 increments
Predictive alarming	15 minute notification when glucose readings outside target range, customizable alerts for high and low blood glucose readings, and realert alarms every 30 minutes, 1,2,3,4, or 5 hours after pressing button	Yes, predictive alerts can be set at 5,10,15,20,25, or 30 minutes before glucose limits are reached
Alarm details	Hypo safety alarm (fixed alarm when blood glucose < 55 mg/dl), missing glucose data, failed sensor, sensor life remaining, reminder to calibrate sensor every 12 hours, receiver out of range, system glucose errors and battery life	Alarms (short, medium or long beep) or vibrates. Alarms repeat until cleared, snooze for low and high glucose level alarms, sensor status, calibration reminder/status, missing glucose data, weak signal between pump and transmitter, battery life
Transmitter water resistance	IPX 5: water resistance to jetting water IPX 7: temporary submersion to depth of 3 feet for 30 minutes	Yes, IPX8, 8 feet for 30 minutes
Transmitter batteries	Silver Oxide	Rechargeable, nonreplaceable. MiniLink transmitter life about 1 year.
Receiver batteries	None, rechargeable receiver, 3-5 day battery life, charging time: 3 hours	AAA x 2 batteries - monitor and transmitter
Sensor storage	Up to 4 months at 36-77°F	36-80°F without need for refrigeration. 6 month life
Computer software	Dexcom® Studio Software	CareLink Personal Software
Starter Kit	Sensor applicator, probe and pod with transmitter, receiver, charging cable, charger, adapter plugs, Dexcom® Studio Software, CD electronic version of user manuals and leather receiver case/belt clip	Monitor, MiniLink transmitter, sensors, MiniLink charger, MiniLink tester, Sen-serter, AAA or LR-03 alkaline battery, occlusive dressing CareLink USB upload device, user guide

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