

CONTINUOUS GLUCOSE MONITORS

 Learn how your CGM's time-in-range data can help you better manage your diabetes at diabetesforecast.org/timeinrange.

COMPANY/ PRODUCT	TRANSMITTER AND SENSOR SIZE	RECEIVER SIZE	BATTERY	RANGE	WARM-UP TIME	CALIBRATION	SENSOR DURATION	SOFTWARE	DETAILS
STAND-ALONE CONTINUOUS GLUCOSE MONITORS									
ABBOTT FreeStyle Libre 14-Day System	1.38 in. diameter x 0.2 in. 	2.36 x 3.74 x 0.63 in. 0.18 oz.	Sensor has 1 silver oxide battery. Reader has 1 rechargeable lithium ion battery.	The reader must be within 1.5 inches of the sensor to scan it.	It takes 1 hour to be ready after inserting the sensor and scanning it with the reader.	No calibration required.	14 days	Sends data to the user's FreeStyle LibreLink app and LibreView, a cloud-based diabetes-management system. FreeStyle Libre desktop software can be used to view reports and change reader settings. The software is compatible with most Windows and Mac operating systems.	Reads glucose levels through a sensor that is worn on the back of the upper arm. It communicates continuously with the reader, but you have to scan the sensor to get a reading. FreeStyle LibreLink app allows users to view their real-time glucose levels, access their eight-hour glucose history, and see changes in glucose on a smartphone instead of the reader. Glucose levels are displayed as number values as well as trends. The reader has a built-in meter. No finger-stick confirmation required when making treatment decisions. The LibreLinkUp app allows up to 20 people to track a user's glucose data and trends on select Apple and Android smartphones. Water-resistant for up to 3 feet deep for 30 minutes, so you can wear it while bathing. Approved for use by adults 18 and over.
DEXCOM G5 Mobile	1.52 x 0.88 x 0.47 in. 	4 x 1.8 x 0.5 in. 0.4 oz. with sensor	Transmitter has integrated battery with a three-month warranty. Rechargeable receiver.	The sensor and transmitter must be within 20 (unobstructed) feet of the receiver or a supported smart device running the Dexcom app.	It takes 2 hours to be ready after inserting the sensor.	Calibrate every 12 hours. Blood glucose levels must be between 40 and 400 mg/dl to calibrate.	7 days	Automatically and continuously sends data to the user's Dexcom Clarity app and web-based data-management software. Compatible with Glooko and Tidepool data-management systems.	Users can get CGM data and alerts in real time on their smart device, including the Apple Watch. A receiver is available but is not necessary. No finger-stick confirmation required when making treatment decisions. Built-in hypoglycemia safety alarm alerts user when glucose hits 55 mg/dl and is always on. Customizable alerts with a number of different tones tell user when glucose falls below or rises above user-selected limits and when glucose is rising or falling rapidly. When calibrating, manually enter a glucose reading from any meter. Sensor with attached transmitter is water-resistant for up to 8 feet deep for 24 hours, so you can wear it while bathing and swimming. The receiver should not get wet. Using Dexcom's Follow app, up to five caregivers can view real-time glucose readings on Apple or select Android devices. Approved for use by adults and children 2 and over.
DEXCOM G6 CGM System	1.68 x 0.86 x 0.33 in. 	4.02 x 2.44 x 0.46 in. 0.42 oz. with sensor	Transmitter has integrated battery with a three-month warranty. Rechargeable receiver.	The sensor and transmitter must be within 20 (unobstructed) feet of the receiver or a supported smart device running the Dexcom app.	It takes 2 hours to be ready after inserting the sensor.	No calibration required.	10 days	Automatically and continuously sends data to the user's Dexcom Clarity app and web-based data-management software. Compatible with Glooko and Tidepool data-management systems.	Users can get CGM data and alerts in real time on their smart device, including the Apple Watch. A receiver is available but is not necessary. No finger-stick confirmation required when making treatment decisions. Built-in hypoglycemia safety alarm alerts user when glucose hits 55 mg/dl and is always on. Customizable alerts with a number of different tones tell user when glucose falls below or rises above user-selected limits and when glucose is rising or falling rapidly. Sensor with attached transmitter is water-resistant for up to 8 feet deep for 24 hours, so you can wear it while bathing and swimming. The receiver should not get wet. Using Dexcom's Follow app, up to 10 caregivers can view real-time glucose readings on Apple or select Android devices. Approved for use by adults and children 2 and over.
MEDTRONIC DIABETES Guardian Connect CGM System	1.41 x 1.13 x 0.38 in. 	Receiver not required; sends data to mobile device.	Rechargeable transmitter. Charger uses 1 AAA battery.	The transmitter must be within 20 feet of your mobile device.	It takes up to 2 hours to be ready after inserting the sensor.	Calibrate every 12 hours. Blood glucose levels must be between 40 and 400 mg/dl to calibrate.	Up to 7 days	Automatically and continuously sends data to the user's Guardian Connect app and web-based CareLink data-management software. Compatible with most Windows and Mac operating systems.	Users can get CGM data and alerts in real time on their smart device, including the Apple Watch. Alerts users 10 to 60 minutes before high or low blood glucose levels are expected. Also works with the Sugar.IQ app, which can track specified meals and predict the likelihood of low blood glucose within the next four hours. Water-resistant for up to 8 feet deep for 30 minutes, so you can wear it while bathing and swimming. Approved for use by adults and children 14 and over.
SENSEONICS Eversense CGM System	1.48 x 1.89 x 0.35 in. 	Receiver not required; sends data to mobile device.	Rechargeable lithium polymer battery	The transmitter must be within 25 feet of your mobile device.	It takes 24 hours to be ready after inserting the sensor.	Calibrate every 12 hours. Blood glucose levels must be between 40 and 400 mg/dl to calibrate.	Up to 90 days	Works with Eversense DMS, a web-based data-management application that automatically uploads glucose readings from the Eversense app. Compatible with Glooko data-management system.	Provides continuous glucose monitoring for up to 90 days via a pill-sized sensor implanted just under the skin by a health care provider. A removable and rechargeable transmitter sits on top of the skin and sends data to a mobile app for Android and Apple devices. A separate receiver is not required. No finger-stick confirmation required when making treatment decisions. Predictive alerts help users know if glucose is trending high or low. Eversense is the only CGM approved for use during an MRI. Using the Eversense Now app, up to five caregivers can view real-time glucose readings and receive alerts on Apple devices. The transmitter is water-resistant. It also vibrates against the body when glucose hits a preset high or low level, even if the smart device is not in range. Approved for use by adults 18 and older.

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COMPANY/ PRODUCT	TRANSMITTER AND SENSOR SIZE	RECEIVER SIZE	BATTERY	RANGE	WARM-UP TIME	CALIBRATION	SENSOR DURATION	SOFTWARE	DETAILS
COMBINATION CONTINUOUS GLUCOSE MONITORS-INSULIN PUMPS									
MEDTRONIC DIABETES MiniMed 630G System	1.4 x 1.12 x 0.37 in. 0.19 oz. without sensor	2.1 x 3.78 x 0.96 in. 3.7 oz. without battery and with empty reservoir	Rechargeable transmitter. Charger uses 1 AAA battery. Pump uses 1 AA battery.	The sensor and transmitter must be within 6 feet of the pump.	It takes 2 hours to be ready after inserting the sensor.	Calibrate every 12 hours. Blood glucose levels must be between 40 and 400 mg/dl to calibrate.	Up to 7 days	Works with CareLink Personal and Professional data-management software. Compatible with Windows and Mac operating systems.	Functions as both an insulin pump and a CGM. (More on its pump functions on p. 60.) SmartGuard technology automatically stops insulin delivery for up to 2 hours when glucose values reach a user-selected low threshold and there is no response to the alarm. Alerts user up to 30 minutes before glucose hits a user-selected upper or lower limit, when glucose is rising or falling rapidly, and when glucose reaches a preset high or low limit. The Contour Next Link 2.4 meter wirelessly communicates with the system, so no manual entry is needed for calibration, insulin dosing, or remote bolus delivery. You can manually enter a glucose reading from any meter. Sensor with attached transmitter is waterproof for 8 feet deep for up to 30 minutes, so you can wear it when bathing and swimming. Pump is waterproof for 12 feet deep for up to 24 hours. The 630G with Guardian Sensor 3 is approved for use by adults and children 14 and over. The 630G with Enlite Sensor is approved for use by adults and children 16 and over.
MEDTRONIC DIABETES MiniMed 670G System	1.4 x 1.12 x 0.37 in. 0.19 oz. without sensor	2.1 x 3.78 x 0.96 in. 3.7 oz. without battery and with empty reservoir	Rechargeable transmitter. Charger uses 1 AAA battery. Pump uses 1 AA battery.	The sensor and transmitter must be within 6 feet of the pump.	It takes up to 2 hours to be ready after inserting the sensor.	Calibrate every 12 hours. Blood glucose levels must be between 40 and 400 mg/dl to calibrate. System might need additional calibration.	Up to 7 days	Works with CareLink Personal and Professional data-management software. Compatible with Windows and Mac operating systems.	Functions as both an insulin pump and a CGM. (More on its pump functions on p. 62.) In Auto Mode, SmartGuard technology automatically adjusts basal insulin delivery every five minutes based on the user's sensor glucose values and recent insulin delivery, though it still requires users to enter carb grams and confirm mealtime and correction bolus recommendations. System can stop insulin delivery before glucose levels reach a user-selected low limit and resume delivery when glucose levels recover. The Contour Next Link 2.4 meter wirelessly communicates with the system, so no manual entry is needed for calibration, insulin dosing, or remote bolus delivery. You can manually enter a glucose reading from a non-linked meter. Sensor with attached transmitter is waterproof for 8 feet deep for up to 30 minutes, so you can wear it when bathing and swimming. Pump is waterproof for 12 feet deep for up to 24 hours. Approved for use by adults and children 7 and over with type 1 diabetes.
TANDEM DIABETES CARE T:slim X2 With Basal-IQ Technology	1.8 x 1.2 x 0.6 in. 0.42 oz. with sensor	3.13 x 2 x 0.6 in. 3.95 oz. with battery and full reservoir	Dexcom transmitter has integrated battery with a three-month warranty. Pump uses an integrated rechargeable lithium polymer battery.	The sensor and transmitter must be within 20 (unobstructed) feet of the pump.	It takes 2 hours to be ready after inserting the sensor.	No calibration required.	10 days	Works with the web-based T:Connect Diabetes-Management Application and the T:Connect mobile app. Compatible with Glooko and Tidepool data-management systems.	Functions as both an insulin pump and a CGM, once integrated with the Dexcom G6 sensor and transmitter. (More on its pump functions on p. 62.) Basal-IQ technology predicts glucose levels and temporarily stops insulin delivery if glucose is expected to drop below 80 mg/dl in the next 30 minutes. No finger-stick confirmation required when making treatment decisions. Built-in hypoglycemia safety alarm alerts user when glucose hits 55 mg/dl and is always on. Customizable alerts with a number of different tones tell user when glucose falls below or rises above user-selected limits and when glucose is rising or falling rapidly. Sensor with attached transmitter is water-resistant for up to 8 feet deep for 24 hours, so you can wear it while bathing and swimming. Pump is watertight for up to 3 feet deep for 30 minutes. Approved for use by adults and children 6 and over.
TANDEM DIABETES CARE T:slim X2 With Control-IQ Technology	1.8 x 1.2 x 0.6 in. 0.42 oz. with sensor	3.13 x 2 x 0.6 in. 3.95 oz. with battery and full reservoir	Dexcom transmitter has integrated battery with a three-month warranty. Pump uses an integrated rechargeable lithium polymer battery.	The sensor and transmitter must be within 20 (unobstructed) feet of the pump.	It takes 2 hours to be ready after inserting the sensor.	No calibration required.	10 days	Works with the web-based T:Connect Diabetes-Management Application and the T:Connect mobile app. Compatible with Glooko and Tidepool data-management systems.	Functions as both an insulin pump and a CGM, once integrated with the Dexcom G6 sensor and transmitter. (More on its pump functions on p. 62.) Automatically adjusts basal insulin delivery based on sensor glucose readings. With Control-IQ technology, the system can automatically deliver a correction bolus, though it still requires users to bolus for meals. No finger-stick confirmation required when making treatment decisions. Built-in hypoglycemia safety alarm alerts user when glucose hits 55 mg/dl and is always on. Customizable alerts with a number of different tones tell user when glucose falls below or rises above user-selected limits and when glucose is rising or falling rapidly. Sensor with attached transmitter is water-resistant for up to 8 feet deep for 24 hours, so you can wear it while bathing and swimming. Pump is watertight for up to 3 feet deep for 30 minutes. Approved for use by adults and children 14 and over.

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