# Continuous Glucose Monitors

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<thead>
<tr>
<th>Company/Product</th>
<th>Stand-alone Continuous Glucose Monitors</th>
<th>Details</th>
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<tr>
<td><strong>ABBOTT</strong></td>
<td>FreeStyle Libre 14-Day System</td>
<td>Works with 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.</td>
</tr>
<tr>
<td><strong>ABBOTT</strong></td>
<td>FreeStyle Libre System</td>
<td>Reads glucose levels through a sensor that is worn on the back of the upper arm for up to 14 days. It doesn't communicate continuously with the reader; you have to scan the sensor to get a reading. 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. 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.</td>
</tr>
<tr>
<td><strong>DEXCOM</strong></td>
<td>GS Mobile</td>
<td>Users can get CGM data and alerts directly 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 alert sends an alert 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. Users can get CGM data and alerts directly on their smart device (including the Apple Watch). Approved for use by adults and children 2 and over.</td>
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<tr>
<td><strong>DEXCOM</strong></td>
<td>G6 CGM System</td>
<td>Uses can get CGM data and alerts directly 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 alert sends an alert 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. Users can get CGM data and alerts directly on their smart device (including the Apple Watch). Approved for use by adults and children 2 and over.</td>
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<td><strong>MEDTRONIC DIABETES</strong></td>
<td>Guardian Connect CGM System</td>
<td>Sends readings to the Guardian Connect app, so users can access their glucose data in real time on their Apple Watch or smartphone. Alerts users 10 to 60 minutes before high or low blood glucose levels are expected. Also works with the Sugar IQ app, which can 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.</td>
</tr>
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## Stand-alone Continuous Glucose Monitors

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<tr>
<th>Company/Product</th>
<th>Transmitter &amp; Sensor Size</th>
<th>Battery</th>
<th>Range</th>
<th>Warm-up Time</th>
<th>Calibration</th>
<th>Sensor Duration</th>
<th>Software</th>
<th>Details</th>
</tr>
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<tr>
<td>ABBOTT FreeStyle Libre 14-Day System</td>
<td>1.38 in. diameter x 0.2 in. 0.18 oz.</td>
<td>Sensor has 1 silver oxide battery. Reader has 1 rechargeable lithium ion battery.</td>
<td>The reader must be within 1.5 inches of the sensor to scan it.</td>
<td>It takes 1 hour to be ready after inserting the sensor and scanning it with the reader.</td>
<td>No calibration required.</td>
<td>14 days</td>
<td>Works with 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.</td>
<td></td>
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<tr>
<td>ABBOTT FreeStyle Libre System</td>
<td>1.38 in. diameter x 0.2 in. 0.18 oz.</td>
<td>Sensor has 1 silver oxide battery. Reader has 1 rechargeable lithium ion battery.</td>
<td>The reader must be within 1.5 inches of the sensor to scan it.</td>
<td>It takes 12 hours to be ready after inserting the sensor and scanning it with the reader.</td>
<td>No calibration required.</td>
<td>10 days</td>
<td>Works with 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.</td>
<td></td>
</tr>
<tr>
<td>DEXCOM GS Mobile</td>
<td>1.5 x 0.9 x 0.5 in. 0.4 oz. with sensor</td>
<td>Transmitter has integrated battery with a three-month warranty. Rechargeable receiver.</td>
<td>The sensor and transmitter must be within 20 (unobstructed) inches of the receiver or a supported smart device running the Dexcom app.</td>
<td>It takes 2 hours to be ready after inserting the sensor.</td>
<td>Calibrate every 12 hours. Blood glucose levels must be between 40 and 400 mg/dl to calibrate.</td>
<td>7 days</td>
<td>Automatically sends data to the user’s Dexcom Clarity app and web-based data-management software. Compatible with Glucose and Tidepool data-management systems.</td>
<td></td>
</tr>
<tr>
<td>DEXCOM G6 CGM System</td>
<td>1.8 x 1.12 x 0.6 in. 0.42 oz. with sensor</td>
<td>Transmitter has integrated battery with a three-month warranty. Rechargeable receiver.</td>
<td>The sensor and transmitter must be within 20 (unobstructed) inches of the receiver or a supported smart device running the Dexcom app.</td>
<td>It takes 2 hours to be ready after inserting the sensor.</td>
<td>No calibration required.</td>
<td>10 days</td>
<td>Automatically and continuously sends data to the user’s Dexcom Clarity app and web-based data-management software. Compatible with Glucose and Tidepool data-management systems.</td>
<td></td>
</tr>
<tr>
<td>MEDTRONIC DIABETES Guardian Connect CGM System</td>
<td>1.41 x 1.13 x 0.38 in. 0.04 oz. with sensor</td>
<td>Receiver not required, sends data to mobile device. Rechargeable transmitter. Charger uses 1 AAA battery.</td>
<td>The transmitter must be within 20 feet of your mobile device.</td>
<td>It takes up to 2 hours to be ready after inserting the sensor.</td>
<td>Calibrate every 12 hours. Blood glucose levels must be between 40 and 400 mg/dl to calibrate.</td>
<td>7 days</td>
<td>Works with CareLink Personal and Professional data-management software. Compatible with most Windows and Mac operating systems.</td>
<td></td>
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</tbody>
</table>
**Company/Product** | **Transmitter & Sensor Size** | **Receiver Size** | **Battery** | **Range** | **Warm-Up Time** | **Calibration** | **Sensor Duration** | **Software** | **Details**
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**Sensus** | Eversense CGM System | 1.48 x 1.89 x 0.35 in. 0.39 oz. | 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 uploads glucose readings from the Eversense app. Provides continuous glucose monitoring for up to 90 days via an implantable pill-sized sensor, a removable and rechargeable transmitter that sits on top of the skin, and a mobile app for Apple or Android devices. Predictive alerts help users know if glucose is trending high or low. 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 over.

**Combination Continuous Glucose Monitors—Insulin Pumps**

**Medtronic Diabetes**

- **MiniMed 630G System**
  - 1.4 x 1.37 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 1AAA battery. Pumps use 1AA 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.
  - Software: 6 days. Works with CareLink Personal and Professional data-management software. Compatible with Windows and Mac operating systems.

- **MiniMed 670G System**
  - 1.4 x 1.37 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 1AAA battery. Pumps use 1AA 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.
  - Software: 7 days. Works with CareLink Personal and Professional data-management software. Compatible with Windows and Mac operating systems.

**Tandem Diabetes**

- **T:slim X2**
  - 1.8 x 1.2 x 0.6 in. 0.42 oz. with sensor
  - 3.1 x 2 x 0.6 in. 3.95 oz. with battery and full reservoir
  - Dexcom transmitter has integrated battery with a three-month warranty. Pumps use 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.
  - Software: 10 days. Works with the web-based T:Connect Diabetes-Management Application. Compatible with Diasend, Glooko, and Tidepool data-management systems.

Functions as both an insulin pump and a CGM. (More on its pump functions on p. 78.) 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. Alert warns 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 and 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.

**Fda Approved**

Approved for use by adults and children 7 and over with type 1 diabetes.

Approved for use by adults and children 6 and over.