GETTING STARTED WITH MINIMED® 670G CONTINUOUS GLUCOSE MONITORING
## Continuous Glucose Monitoring

### Getting started with continuous glucose monitoring

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section 1</td>
<td>Welcome to continuous glucose monitoring</td>
<td>1</td>
</tr>
<tr>
<td>Section 2</td>
<td>Sensor glucose (SG) and blood glucose (BG)</td>
<td>2</td>
</tr>
<tr>
<td>Section 3</td>
<td>Trends</td>
<td>3</td>
</tr>
<tr>
<td>Section 4</td>
<td>Personalized alerts</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Turning sensor feature on</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>High Setup</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Low Setup</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Snooze</td>
<td>14</td>
</tr>
<tr>
<td></td>
<td>Changing High or Low Setup</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>Alert Silence</td>
<td>16</td>
</tr>
<tr>
<td>Section 5</td>
<td>Connecting your pump and transmitter</td>
<td>18</td>
</tr>
<tr>
<td>Section 6</td>
<td>Inserting and starting the sensor</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>Selecting your site</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>Inserting your sensor</td>
<td>22</td>
</tr>
<tr>
<td></td>
<td>Taping your sensor</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>Connecting your transmitter</td>
<td>28</td>
</tr>
<tr>
<td></td>
<td>Checking proper tape application</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>Starting the sensor</td>
<td>30</td>
</tr>
<tr>
<td>Section 7</td>
<td>Calibration</td>
<td>32</td>
</tr>
<tr>
<td></td>
<td>Calibrating the sensor</td>
<td>33</td>
</tr>
<tr>
<td></td>
<td>Calibration Reminder</td>
<td>36</td>
</tr>
<tr>
<td>Section 8</td>
<td>Reading the sensor display</td>
<td>37</td>
</tr>
<tr>
<td></td>
<td>Status icons</td>
<td>37</td>
</tr>
<tr>
<td></td>
<td>SmartGuard low management suspend icon</td>
<td>38</td>
</tr>
<tr>
<td></td>
<td>Sensor status</td>
<td>38</td>
</tr>
<tr>
<td></td>
<td>Current sensor value</td>
<td>38</td>
</tr>
<tr>
<td></td>
<td>Sensor graph</td>
<td>38</td>
</tr>
<tr>
<td></td>
<td>Additional sensor graphs</td>
<td>39</td>
</tr>
</tbody>
</table>
Contents

Section 9: Sensor alerts and suspend ................................................................. 41
  Sensor alerts ........................................................................................................ 41
  SmartGuard: low management suspend .............................................................. 42
  Resuming basal insulin ....................................................................................... 43
  Manual basal resume .......................................................................................... 43
  Low management suspend features unavailable ............................................. 44

Section 10: Charging and storing the Guardian Link transmitter .................... 45

Section 11: Traveling by air .................................................................................. 46

Section 12: X-rays, MRI, or CT scan ................................................................. 48

Training handouts
  Quick Reference Guide for sensor alerts ........................................................... 50
  Quick Reference Guide for using the One-press serter with Guardian sensor .... 52
  SmartGuard™ low management suspend features ........................................... 56
Welcome

Getting started with continuous glucose monitoring

Section 1: Welcome to continuous glucose monitoring

Continuous glucose monitoring (CGM) gives you a more complete picture of your glucose control than blood glucose monitoring alone. Using a sensor allows you to receive up to 288 sensor glucose readings every 24 hours, filling the gaps between your BG tests. CGM alerts notify you of high and low glucose values. Graphs and trend arrows show the speed and direction your glucose levels are moving.

The MiniMed® 670G includes SmartGuard™ technology, our latest advancement in diabetes management. SmartGuard is pump technology that automatically adjusts insulin delivery based on sensor glucose values. SmartGuard can be used in two modes: Manual Mode or Auto Mode. In this section, you will learn about using CGM and SmartGuard low management in Manual Mode. You will learn about SmartGuard in Auto Mode later.

The first step in using CGM is understanding the items included in your CGM system.

Your CGM system includes 3 key items:

1. **Transmitter**
   Guardian™ Link (3) Transmitter connects to the glucose sensor and sends glucose readings to your insulin pump.

2. **Glucose sensor**
   The Guardian™ Sensor (3) measures glucose levels in the body.

3. **Insulin pump**
   The MiniMed® 670G insulin pump displays glucose readings.

Other items include: One-press serter, Oval Tape, charger, and tester.

Always use the components that were sent with your MiniMed® 670G.

Drawings throughout this document are only generic representations of the system components.

* The transmitter must be within 6 feet (1.8 meters) of the insulin pump in order to communicate sensor readings.
Section 2: Sensor glucose (SG) and blood glucose (BG)

Your BG meter measures glucose levels in your blood. The glucose sensor measures glucose in the fluid surrounding the cells of your tissue, called interstitial fluid.

Glucose travels between these two areas (blood and interstitial fluid). Most of the time, it travels to your blood first, and then to your interstitial fluid. Because of how glucose moves, your BG meter readings (BG) and sensor glucose readings (SG) will be close, but will rarely match exactly. This difference is normal and should be expected.

When glucose levels are rising or falling quickly, you should expect to see an even larger difference between your BG meter readings and the sensor glucose readings.

Examples of times when this larger difference may occur include:

- after meals or taking a bolus of insulin.
- during exercise.
- when arrows appear on your pump screen, as explained in “Trends” on page 3.

WARNING: Sensor glucose is not the same as blood glucose. Your SG and BG readings will be close to one another, but will rarely match exactly.

Do not use sensor values to make diabetes treatment decisions. Always confirm your glucose value with a BG meter first.
Section 3: Trends

When using CGM, you will want to focus on sensor glucose trends. These trends give insight into the direction and the speed that your glucose is changing. The sensor graph and trend arrows are used to show your trend information.

Note: When using CGM, focus less on each individual glucose number and more on the direction and speed that your glucose is changing.

Example of sensor information on the Home screen

By looking at the sensor information above, you can see that the current glucose reading is 100 mg/dL. When you look at the graph, you can see that it is trending downward.

In this example, you see arrows above the number. The arrows indicate the rate that the glucose values are moving up or down:

- **↑ or ↓**: SG has been rising or falling by at least 1 but less than 2 mg/dL per minute.
- **↑↑ or ↓↓**: SG has been rising or falling by at least 2 but less than 3 mg/dL per minute.
- **↑↑↑ or ↓↓↓**: SG has been rising or falling by at least 3 or more mg/dL per minute.

Note: You may be likely to notice your glucose trending up or down after eating, giving a bolus, or when exercising.
Section 4: Personalized alerts

Your SmartGuard alert and suspend settings are most beneficial if they are personalized for your needs. Settings will be set during your CGM training. They can then be adjusted as you learn more from the information provided by your sensor while you wear it. Your healthcare professional will work with you to determine your initial settings and help with adjustments that need to be made.

Your alert settings in SmartGuard apply to both Manual Mode and Auto Mode. However, the SmartGuard suspend settings apply only to Manual Mode. When the pump switches from Manual Mode into Auto Mode, the SmartGuard suspend settings turn off. See Getting Started with Auto Mode for information on how Auto Mode works.

The graph below shows the different settings that can be personalized for both High and Low sensor glucose readings.

Note: Please make sure the settings prescribed for you by your healthcare professional are available at the time of your in-person training.
Turning sensor feature on

Before entering any of the SmartGuard settings, you must first turn the sensor feature on.

To turn the sensor feature on:

1) Press 🔄.
2) Select Options.
3) Select Utilities.
4) Select Sensor Settings.
5) Select Sensor to turn feature On.

You can now access the SmartGuard menu and enter the settings.

High Setup

Let’s now look at the High Setup. These settings allow you to be alerted if your sensor glucose:

- is rising rapidly (Rise Alert).
- is approaching your high limit (Alert before high).
- has reached your high limit (Alert on high).
High Limit
The first step is to set the high (Hi) limit. The high limit can be set from 100 to 400 mg/dL. This is the value on which other high settings are based. You can set up to eight high limits for different time segments throughout the day or night. The high (Hi) limit(s) that you enter also apply to Auto Mode.

Note: Your high limit is not the same as your glucose target. Your healthcare professional will help you determine the best setting, so that you are alerted only when needed.

Alert before high
When Alert before high is on, you will receive an alert any time the sensor glucose is predicted to reach your high limit, making you aware of a potential high before it occurs. This can help you to evaluate what has occurred and take any necessary action as directed by your healthcare professional.

Time before high
Time before high determines how many minutes before reaching the high limit that you will receive an Alert before high. This can be set from 5 to 30 minutes.

Alert on high
When the Alert on high is on, you will receive an alert any time your SG reading reaches or exceeds your high limit. This allows you to evaluate and treat if necessary as instructed by your healthcare professional.

Alert on high...
Sara has been working hard to keep her glucose levels under control. Her healthcare professional has set her high limit at 225 mg/dL and instructed her to use the Alert on high. If her glucose reaches this limit, she tests her BG and takes insulin if necessary to help make sure her glucose levels return to her normal range.

Rise alert
The Rise Alert will notify you when your glucose is rising rapidly. This alert can help you understand how much your glucose levels are affected by meals or, for example, when forgetting to give a bolus.

The Rise Alert can be set to alert if glucose is rising as follows:

- ↑ - SG is rising at a rate of 1 mg/dL per minute or more.
- ↑↑ - SG is rising at a rate of 2 mg/dL per minute or more.
- ↑↑↑ - SG is rising at a rate of 3 mg/dL per minute or more.
- Custom - SG is rising at the rate that you set. This can be set from 1.0 to 5.0 mg/dL per minute.
Setting up your High Setup

1) Press ( ).

2) Select Options.

3) Select SmartGuard.

4) Select High Setup.

5) Press ( ) on the time segment.

   If you are setting multiple time segments with different high limits and alerts, press ( ) to set the first End time and press ( ).

   In this example, only one time segment is set.

6) Press ( ) or ( ) to set Hi limit and press ( ).

   In this example, the limit is set to 250 mg/dL.

7) Press ( ) to continue onto the next screen.
8) Select each feature you wish to turn on. If a feature is on, select it again to turn it back off.

9) Once settings are selected, select Next.

   In this example, the Alert on high has been turned on.

10) Select Done.

11) Verify that settings are correct and select Save.

Your High Setup is now complete.

Note: Sensor glucose values must be confirmed with a BG meter reading before diabetes treatment decisions can be made.

Note: You can set up to 8 different time segments throughout the day and night. Each time segment can have different high limits and high alerts that work best for you during that time of day or night.
Low Setup
Let’s now look at the **Low Setup**. You can choose to be alerted before and/or when you have reached your low limit. You can also use the SmartGuard low management suspend features that can automatically suspend insulin if you are approaching or have reached your low limit. The low settings that can be chosen are shown here:

**Low Limit**
The first step is to set the low (Lo) limit. This can be set from 50 to 90 mg/dL. This is the value on which the other low settings are based. You can think of this limit as the lowest sensor glucose value that you would like to avoid reaching. Furthermore, if you do reach it, you would like to spend as little time at or below it as possible. You can set up to eight low limits for different periods of the day or night.

**Suspend before low**
**Suspend before low** is a low management feature of SmartGuard. When **Suspend before low** is on, your pump will temporarily stop delivering insulin if the sensor glucose value is approaching your low limit. This will keep you from getting additional insulin that would continue to lower your sensor glucose level.

**Note:** Insulin delivery will not be suspended if you are more than 70 mg/dL above your low limit.

**Alert before low**
When **Alert before low** is set to on, you will receive an alert when you are approaching your low limit, making you aware of potential lows before they occur. **Alert before low** behaves differently depending on your low management suspend settings:

- If **Suspend before low** is on, you will be alerted when insulin is suspended.
- If **Suspend before low** is off, you will be alerted when the sensor predicts you will reach your low limit in 30 minutes.
Suspend before low...

Sam uses **Suspend before low** during the night. He knows that if his sensor glucose values are approaching his low limit, his insulin delivery will stop. He has the **Alert before low** set to off – he doesn’t want to be alerted when this occurs. He is comfortable knowing the pump will stop insulin delivery and he will receive an **Alert on low** if he reaches his low limit.

**Suspend on low**

**Suspend on low** is a low management feature of SmartGuard. When **Suspend on low** is set to on, your pump will temporarily stop delivering insulin if your sensor glucose has reached or fallen below your low limit. This keeps additional insulin from being delivered.

**Note:** Only one suspend feature can be used during each time segment; you cannot turn both **Suspend before low** and **Suspend on low** on.

**Alert on Low**

When **Alert on low** is on, you will receive an alert any time your SG reading reaches or falls below your low limit. This allows you to test your BG and treat if necessary as instructed by your healthcare professional.

**Note:** If either **Suspend on low** or **Suspend before low** is turned on, **Alert on low** will automatically be set to on so you know that your glucose is at or below your low limit.

**Low SG XX mg/dL (50 mg/dL or below):**

Your system also has a fixed **Low SG XX mg/dL (50 mg/dL or below)** alert. This fixed alert is factory set and cannot be changed or turned off. You will receive this alert if your SG reaches or falls below 50 mg/dL. This alert occurs in both Manual Mode and Auto Mode.

**WARNING:** Do not use the **Suspend on low** feature to prevent or treat low glucose. The **Suspend on low** feature is designed to suspend insulin delivery when you are unable to respond to the **Suspend on low** alarm. Always confirm your sensor glucose using your BG meter, and follow the instructions of your healthcare professional. Using **Suspend on low** to prevent or treat low glucose may result in prolonged hypoglycemia.
Alexa’s healthcare professional advised her to use the Alert before low and the Suspend on low during the daytime. If she receives an alert before she reaches her low, she tests her BG and treats with carbohydrates if necessary. In case her sensor glucose still reaches her low limit, she knows she will be alerted and her pump will suspend insulin.

Resume basal alert

In addition to suspending insulin delivery, the pump can also automatically resume delivery of basal insulin. If insulin has been suspended by either Suspend before low or Suspend on low, basal insulin delivery will automatically be resumed if either of these conditions apply:

- if SG values are above the low limit and are trending upward
- after a maximum suspend time of 2 hours

When the Resume basal alert is on, you will be alerted when basal insulin is automatically resumed because SG values are above the low limit and trending upward. If the Resume basal alert is off, basal insulin will still be resumed, you just won’t receive an alert.

If basal insulin is resumed after the maximum 2 hour suspend time, you will be alerted even if the Resume basal alert is off. It is important that you check your BG and ensure your glucose is at a safe level.

IMPORTANT: The maximum time insulin will be suspended is 2 hours. Additional information regarding SmartGuard™ low management suspend features can be found in Sensor alerts and suspend on page 41.

Setting up your Low Setup

1) Press 🔄.

2) Select Options.
3) Select **SmartGuard**.

4) Select **Low Setup**.

5) Press  on the time segment.

   If you are setting only one time segment, press . If you are setting multiple time segments, press  to the end of the first segment, and press .

   *In this example, multiple time segments are set.*

6) Press  or  to set **Lo** limit and press .

   *In this example, the limit is set to 70 mg/dL.*

7) Press  to continue onto the next screen.

8) Select each feature you wish to turn on. If a feature is on, select it again to turn it back off.

   *In this example, Suspend before low has been turned on.*

9) Once settings are selected, select **Next**.

   **Note:** Only one Suspend feature can be used during each time segment. If either Suspend feature is turned on, **Alert on low** will automatically be turned on.
10) Press £ on the time segment.

11) Press to set the End time of the second segment and press £.

12) Press £ or £ to set the Lo limit and press £.

13) Press £ to continue onto the next screen.

14) Select each feature you wish to turn on. If a feature is on, you can select it again to turn it back off.

   In this example, Alert before low, Suspend on low, and Resume basal alert have been turned on.

15) Select Next.

16) Select Done.
Getting started | Personalized alerts

17) Verify that settings are correct and select Save.

Your Low Setup is now complete.

Note: You can set up to 8 different time segments throughout the day and night. Each time segment can have different low limits and low alerts that work best for you during that time of day or night.

Snooze

The High Snooze and Low Snooze is set for the amount of time that you want to wait to be reminded that an alert condition still exists. Once a high or low alert is received and cleared, you will be alerted again only if the alert condition still exists after the snooze time you have set. The high snooze time can be set from 5 minutes to 3 hours. The low snooze time can be set from 5 minutes to 1 hour.

1) Press 
2) Select Options.
3) Select SmartGuard.
4) Select Snooze.
5) Select High Snooze.
6) Press or to set the desired time and press 

7) Select Low Snooze.
8) Press or to set the desired time and press 
9) Verify that the settings are correct and select Save.
Note: Additional details about the SmartGuard low management suspend features can be found in the *Training handouts on page 55*. See the *MiniMed® 670G System User Guide* for a complete explanation of the technical and operational aspects of your pump.

Note: The SmartGuard low management suspend features, Suspend on low and Suspend before low, are automatically turned off when Auto Mode becomes active.

Snooze...

Robert’s healthcare professional instructed him to turn Alert on high on with a Snooze of 2 hours. If his sensor glucose reaches his high limit, he checks his BG and gives a bolus if he needs it. His pump will check again in 2 hours and alert him if he is still at or above his high limit.
Changing High or Low Setup

As you use CGM, you and your healthcare professional may find that changes need to be made to the existing settings. To make these changes:

1) Press ( ).
2) Select Options.
3) Select SmartGuard.
4) Select High Setup or Low Setup.
5) Select Edit.
6) Select time segment you wish to change.
   a. Change End time if necessary and press ( ).
   b. Change Hi or Lo limit if necessary and press ( ).
   c. Press ( ) when the arrow is highlighted to continue onto the next screen.
7) Select any feature that is off if you wish to turn it on. Select any feature that is on if you wish to turn it off.
8) Select Next.
9) When finished, select Done.
10) Verify settings are correct and select Save.

Alert Silence

The Alert Silence feature allows you to silence sensor alerts for a set period of time. If a sensor alert occurs when Alert Silence is on, a sensor alert occurred message is displayed and the notification light flashes, but there is no beep or vibration. You can go to Alarm History in the History menu to see which sensor alert or alerts occurred. If you have not cleared the message when the Alert Silence period ends, the pump will beep and/or vibrate until cleared.

To set Alert Silence

1) Press ( ).
2) Select Audio Options.
3) Select Alert Silence Options.
4) Select the alerts that you want to be silenced.

5) Select Duration.

6) Press to set the time that you want alerts to be silenced and press .

7) Select Begin.

Alerts will automatically return to audio and/or vibrate at the end of the duration that you set. The Low SG XX mg/dL (50 mg/dL or below) and Alert on Low alerts cannot be silenced.

Silencing alerts...

Sandra uses the Alert Silence feature when she is in class so that she does not disrupt her classmates if an alert occurs. She routinely looks at her pump to check for alerts, and can take action if necessary.
Section 5: Connecting your pump and transmitter

Before using the sensor for the first time, you will need to wirelessly connect the pump and transmitter so that they can communicate with each other. This allows the sensor information to be displayed on the pump screen.

To wirelessly connect your pump and transmitter:

1) Attach your transmitter to the charger and make sure it is fully charged.*

   For more information on charging the transmitter, see Charging and storing the Guardian Link transmitter on page 45.

2) Press \( \bigcirc \). 

3) Select Options.

4) Select Utilities.

5) Select Device Options.

6) Select Connect Device.

   Only one transmitter can be connected to the pump at one time. When you need to connect a new transmitter, you must first select Manage Devices, select the old transmitter number and select Delete.

7) Select Auto Connect.

   Steps for Manual Connect can be found in the MiniMed® 670G User Guide.

8) Press \( \bigcirc \).

9) Select Continue.
10) Make sure the transmitter is on the charger before proceeding. Now start the search processes on both devices.
   a) Remove transmitter from charger. If green light on transmitter does not flash, reconnect to charger until fully charged.
   b) Immediately select **Search** on the pump. The search can take up to 2 minutes.

11) When the device is found, confirm that the serial number (SN) shown on the pump is the serial number on the back of your transmitter.

   If you receive the **No devices found** message, place the transmitter back onto the charger. Then remove the transmitter from the charger and immediately select **Retry** on the pump.

12) If SN matches, select **Confirm**.

13) Connection is now complete. The transmitter serial number will be displayed on the pump screen.

**Note:** These steps only need to be done as a first time set-up. You will not have to repeat them with each new sensor you start.
Section 6: Inserting and starting the sensor

Before you insert your sensor, gather all of your supplies:

Guardian Sensor System components*

- **One-press serter** is required in order to insert the sensor properly.
- **Guardian Sensor (3)** is individually packaged and comes attached to a plastic pedestal which is necessary for proper loading into the serter.
- **Oval Tape** is required to keep the sensor securely in place.
- **Guardian Link (3) transmitter** is connected after the sensor is inserted and covered with the Oval Tape.

*For more details on the Guardian Sensor (3) components, consult the user guides for Guardian Link (3) transmitter, Guardian Sensor (3), and One-press serter.
Selecting your site

Your sensor can be inserted in any of the shaded areas.*

The sensor insertion site should be at least:

- 2 inches (5 centimeters) from your navel.
- 1 inch (2.5 centimeters) from your insulin pump infusion site.
- 1 inch (2.5 centimeters) from any manual insulin injection site.

For best sensor glucose performance, avoid sites:

- where clothing may rub or constrict (for example, your belt line).
- where your body naturally bends a great deal which may cause the sensor to pull out.
- that are scarred or have hardened tissue or stretch marks.
- where there is a great deal of motion or friction.

Preparing your site

- Wash your hands with soap and water.
- Clean the selected site with an alcohol swab and allow the alcohol to dry. Do not use IV prep or the sensor may not work properly.

*Clinical trials for glucose sensors were performed on sensors inserted in these areas.
Inserting your sensor

1 **Open the sensor package.** Pull the corner of the paper covering to open the sensor package.

2a **Hold sensor by plastic pedestal.** Remove the sensor with attached pedestal by holding the pedestal only. Place the sensor/pedestal on a clean, flat surface (such as a table).

2b **Tuck adhesive tab.** Make sure that the sensor’s adhesive tab is tucked under the sensor connector and snaps.
Getting started | Inserting and starting the sensor

**Note:** Refer to the illustrations for correct and incorrect ways to hold serter for loading.

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<th>Correct</th>
<th>Incorrect</th>
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**Fingers are NOT holding the side buttons.**

3 **Load sensor into serter.** Grip the serter exactly as shown **with your thumb placed on the thumb print on the serter. Do not hold the side buttons.** Push the serter down onto the pedestal until the base of the serter sits flat on the table.

4 **Detach serter from pedestal.** To detach the serter from the pedestal, grip the serter as shown with thumb placed on thumb print on the serter. With the other hand, place two fingers on the pedestal arms, and slowly pull the serter straight up.

**Note:** Make sure that the pedestal is firmly on the table before pulling the serter away.

**CAUTION:** Do not detach the pedestal from the serter in mid-air as this may damage the sensor.

**Note:** The thumb print on the serter can be used for either left-handed or right-handed insertion.
Getting started | Inserting and starting the sensor

**Note:** The sensor remains inside the serter after removing the pedestal. The arrow on both sides of serter indicate location of the sensor needle.

5a **Place serter on body.** Hold the serter steadily against your cleaned insertion site, without pushing the serter too deeply into the skin.

5b **Insert sensor.** Press and release the bump on both buttons at the same time. Do not pull the serter away from your body just yet.

5c **Hold serter against body.** Continue to hold the serter against your body for at least five seconds to allow the adhesive to stick to your skin.

5d **Remove serter from body.** Slowly pull the serter away from the skin, making sure the buttons are not pressed.

**Note:** Failing to hold the serter securely flat against the body may allow the serter to spring back after pressing the buttons and result in improper insertion of the sensor.
6 Remove needle housing. Gently hold the base of the sensor against the skin with one hand. With other hand, hold the needle housing at the top and slowly pull it straight away from the sensor. Dispose of the needle housing in a sharps container.

Note: Apply additional liquid adhesive. You may use an optional adhesive such as Skin Tac™ under the adhesive pad, prior to removing the liner. Allow it to dry.

IMPORTANT: All sensor tapes and adhesives stick best when you apply pressure after putting them on your skin. Doing so helps the sensor stay securely placed and fully inserted.
7a Remove adhesive pad liner. Hold the sensor in place and gently remove the adhesive liner from under the adhesive pad. Do not remove the liner on the rectangular adhesive tab yet.

7b Press entire adhesive pad to skin. Firmly press the adhesive against the skin and smooth the entire adhesive pad so that it sticks to your skin.

8a Untuck adhesive tab. Untuck the adhesive tab from under the sensor connector.

8b Straighten adhesive tab. Straighten the adhesive tab so that it lies flat against your skin, but do not remove the adhesive liner yet.

Note: The Guardian sensor adhesive is sensitive to pressure. Continue applying pressure on the adhesive to ensure that the sensor remains inserted in the skin for 7 days of wear.
Taping your sensor

Before you connect the transmitter to your sensor it is very important that you properly secure the sensor against your skin using the provided tape.

1. Remove liner 1 and liner 2.
2. Apply the tape as shown and press down firmly.
3. Remove liner 3 from each side.
4. Smooth the tape.

**IMPORTANT:** All Guardian sensor tapes and adhesives stick best when you continue to apply pressure after putting them on your skin. Doing so helps the sensor stay securely placed and fully inserted.
Getting started | Inserting and starting the sensor

Connecting your transmitter

1. Connect the transmitter to the sensor.

2. Remove the liner from the adhesive tab. Cover the transmitter with the adhesive tab. Do not pull the tab too tightly.

3. To apply the 2nd tape, remove liner 1 and liner 2.

4. Rotate the 2nd tape and place the tape over the transmitter. Press down firmly.

Note: Wait for the green light on the transmitter to flash. If the green light does not flash, refer to the Troubleshooting section of your transmitter user guide.

IMPORTANT: If you do not see a green light flashing on the transmitter after it is connected to the sensor, then disconnect the transmitter and place it back on the charger to ensure that it is fully charged. Then reconnect the transmitter to the sensor.
It is very helpful to remember the order of these four steps when changing your sensor.

1. **Insert** the sensor.
2. **Tape** the sensor in place.
3. **Connect** the transmitter.
4. **Apply** a second Oval Tape.

**Note:** When your transmitter is connected to your sensor they form a water-tight seal to a depth of 8 feet (2.4 meters) for up to 30 minutes. You can shower and swim without removing them.

**Note:** Properly applying the Oval Tape is key to ensuring your success with the sensor. Due to the sensor’s small size and flexible nature, the Oval Tape helps to secure it from body motion or physical activity that can cause it to be pulled out.
Checking proper tape application

It is important to check your sensor site periodically to make sure the sensor is still secure and has not been pulled out. If the sensor has been pulled out, do not try to push it back into place. A new sensor may need to be inserted.

Correct

![Correct Diagram]

Oval Tape is covering the sensor, skin around sensor, and back of transmitter.

Starting the sensor

Once you have inserted the sensor and connected the transmitter, the pump and transmitter will begin to communicate.

Make sure your pump is on the Home screen so that the message below will be displayed when the sensor is ready to be started. This typically takes less than a minute, but may take up to 10 minutes.

1) Select Start New Sensor.

2) The Sensor warm up started message will appear.

3) Press ✔ and then to clear.
4) **Warm up...** will appear on the Home screen until sensor is ready for the first calibration.

*If 15 minutes have passed and the Warm up bar does not appear or it looks like it is not progressing, look into the Quick Status screen. If you see the time of Next cal listed, the sensor is in Warm up.*

**Note:** The next time you connect a transmitter, you will see these screens. Select **Start New Sensor** if you have just inserted a new sensor. Select **Reconnect Sensor** if you have only disconnected and reconnected the transmitter.

**Note:** A Quick Reference Guide for using the One-press server with Guardian sensor is available in Training handouts on page 51 to help guide you during your sensor setup and insertions.
Section 7: Calibration

Your continuous glucose monitoring system requires BG meter readings in order to provide you with sensor glucose readings. These BG meter readings are entered into the pump and are for sensor calibrations. Calibration is essential for optimal CGM performance. CGM does not eliminate the need for BG meter tests.

To calibrate, you must use a fingerstick blood sample to test your BG on your meter, and then enter that value into your pump. The pump will accept BG meter readings between 40 mg/dL to 400 mg/dL.

After inserting a new sensor, a calibration is needed:

- Within 2 hours after you connect the transmitter to your sensor and start the Warm up period.
  Your pump will notify you with a Calibrate now alert when it is ready for its first calibration.
- Again within 6 hours (first day of inserting sensor only).
- Again every 12 hours.
- When the system detects that a calibration is needed for optimal performance.

After the first day, the minimum number of calibrations required is one every 12 hours, but you may receive a Calibrate now alert if one is needed sooner. Calibrating three to four times per day is optimal. It is best to calibrate when your glucose is not changing rapidly. For example, before meals is often a good time to calibrate. Calibrating when there are \( \uparrow \uparrow \downarrow \downarrow \uparrow \uparrow \downarrow \downarrow \) may decrease sensor accuracy.

**IMPORTANT:** Blood glucose readings should be entered immediately. Avoid using an old BG or reusing BG readings from previous calibrations.

Wait at least 15 minutes in between calibration attempts.

**Note:** Calibrations are necessary in order to continue to receive sensor glucose readings, alerts, and alarms.

Within two hours after starting a new sensor, or any other time a calibration is necessary, you will receive a Calibrate now alert. If you cannot calibrate right away (for example, if you are driving or in a meeting), you can set the Snooze to remind you to calibrate in the time that you set. You can change the time if you desire.

If you plan to test BG and calibrate right away, simply select Snooze.
Once you select Snooze, **Calibration required** will appear on the Home screen until you enter a BG to calibrate.

You will not receive sensor glucose readings or sensor alerts and alarms until a calibration BG is entered.

**Calibrating the sensor**

There are several different ways that you can enter a BG reading to calibrate the sensor.

**Calibrate by using the CONTOUR®NEXT LINK 2.4 Meter**

When you use the compatible Ascensia meter, the meter value automatically appears on the BG Meter screen.

1) Check your BG. You may need to make a selection on your meter to send the BG reading to the pump, depending on your meter setting for sending over BG results.

2) Select **Yes** to confirm the BG meter reading.

   If you do not believe the meter result is accurate, do not confirm now. Select **No**, wash your hands, and re-test your BG.

3) Select **Calibrate Sensor** to calibrate using the BG value.

   If you plan to give a bolus using Bolus Wizard®, select **Bolus**.

4) Select **Done** if you wish to do neither.

**Calibrate through Enter BG**

You are able to calibrate through Enter BG.

1) Press 📅.

2) Select **Enter BG**.
3) Select **Enter BG**.

4) Press ▲ or ◀ to enter your BG reading, and press ○.

5) Select **Save**.

A message appears asking if you want to calibrate using the entered BG.

6) Select **Yes** if you want to calibrate.

   Select **No** if you do not want to calibrate.

7) The Home screen appears, indicating that your pump is calibrating.

   **Note:** You can perform other tasks while your pump is calibrating.
Calibrating through the Bolus Wizard

You are able to calibrate when using the Bolus Wizard.

1) Press \( \bigcirc \).
2) Select Bolus.
3) Select Bolus Wizard.
4) Press \( \bigcirc \).
5) Press \( \bigcirc \) or \( \bigcirc \) to enter BG value and press \( \bigcirc \).
6) Press \( \bigcirc \).
7) Press \( \bigcirc \) to enter your carbs and press \( \bigcirc \).
8) Select Next.
9) Select Deliver Bolus.
10) Press \( \bigcirc \) and select Yes to calibrate sensor.

You can also calibrate through the Sensor Settings and Event Markers menu. For complete instructions, see the MiniMed® 670G User Guide.

Once you have entered a calibration BG, the Home screen will show you that the system is calibrating.

You will start seeing sensor glucose readings again within five minutes.

WARNING: If you notice a large difference between your BG meter reading and sensor glucose readings, wash your hands and do another BG fingerstick test to help ensure a more accurate reading. Check the sensor site to ensure the sensor overtape is still holding the sensor in place. If it is not, you will need to remove and insert a new sensor.
Calibration Reminder

You can use the Calibration Reminder to give you notice before the next calibration is necessary. For example, let’s say you calibrated at 7:00a and your reminder is set for 4 hours. Since your next calibration would be due at 7:00p (12 hours), you would receive a Calibration Reminder at 3:00p, which is 4 hours before the calibration is due. This can help ensure that you calibrate 3-4 times a day. The Calibration Reminder defaults to On with a reminder time of 1:00 hour.

To change the Calibration Reminder

1) Press 🔄.
2) Select Options.
3) Select Reminders.
4) Select Calibration.
5) Press 🔄 to Time and press 🔄.
6) Press ▲ or ▼ to desired time and press 🔄.

In this example, the reminder is set for 1 hour.
7) Select Save.

Calibrate before bed...

Pam does not want to be awakened during the night by a Calibrate now alert, so she tests her BG and calibrates her sensor before she goes to bed.
Section 8: Reading the sensor display

Once the sensor has started giving you sensor glucose readings, the Home screen will display your readings in a way that is similar to the example shown below.

![Sensor Display Example]

**Note:** This is the sensor display when your pump is in Manual Mode. The display is different when your pump is in Auto Mode. See Getting Started with Auto Mode for information about Auto Mode display.

**Status icons**

In addition to the pump icons, you will see additional sensor icons when using CGM.

**Connection:** The connection icon appears green when the Sensor feature is on and your transmitter is successfully communicating with your pump. The connection icon appears with a red cross when the Sensor feature is turned on, but the transmitter is not connected, or communication with your pump has been lost.

**Calibration:** Shows the approximate time left until your next sensor calibration is due. Appears only when the Sensor feature is turned on. The color and the circle around the icon indicate the status. When your sensor is fully calibrated, the icon has a solid green circle around it. As the time for your next sensor calibration approaches, the green circle around the icon becomes smaller, and the color of the icon changes. When the icon turns red, a sensor calibration is required. If the time until your next sensor calibration is unavailable, the icon has a solid blue circle around a question mark. When the sensor is not ready for a calibration, the circle shows three dashes.

**Audio icon:** If Alert Silence is on: audio 🎧, vibrate 🎤, or audio and vibrate 🎧. 
SmartGuard low management suspend icon

During any time segment when either **Suspend before low** or **Suspend on low** is set to On, you will see the low management suspend icon on the Home screen.

- **Suspend before low** or **Suspend on low** is on and ready. If either suspend becomes active, the icon will flash while insulin delivery is stopped.
- **Suspend before low** or **Suspend on low** is on but unavailable. This can be due to a recent suspend or when no SG values are available.

Sensor status

You can go to the Sensor status menu to see, for example, when your next calibration is due, time left on your sensor, and battery life remaining on your transmitter.

1) From the Home screen, press 🔄.
2) Select Status.
3) Select Sensor.

You will also see additional sensor status information in **Notifications**, **Quick Status**, and **Settings Review** screens.

Current sensor value

The most current sensor reading is displayed on the Home screen. This is updated every 5 minutes. The sensor reads glucose values from 40 mg/dL to 400 mg/dL.

**Note:** One, two or three trend arrows may sometimes appear above the SG reading. These give you insight on the speed and direction that your sensor glucose is moving. See “Trends” on page 3 to review these arrows.

Sensor graph

A graph that shows the last 3 hours of sensor glucose readings is displayed on the Home screen. Your high glucose limit entered in your sensor settings will be shown in orange, and your low glucose limit will be shown in red.
Additional sensor graphs

In addition to the 3-hour graph, you can also view 6-hour, 12-hour, and 24-hour glucose trend graphs.

![Graph Image]

The graph shows a range of SG values from 40 mg/dL to 400 mg/dL. The green band across the screen represents an SG range from 70 mg/dL to 180 mg/dL. The blue line shows your actual SG values over the time span. At the right end of the blue line is a blue dot representing the most current SG value.

Details about correction bolus, BG entry, and meal (carb) bolus are shown on the graph. To locate details for an icon, look for the icon on the graph, and press \(<\) or \(>\) to scroll to that icon. The details for that icon are located along the bottom of the screen. Icons shown on the graph are:

- Indicates either a correction bolus or manual bolus
- Indicates a BG entered either manually or using a meter
- Indicates a bolus that includes a carb entry; it displays for a carb only or a carb plus correction bolus

Press \(<\) or \(>\) to cycle through the time span. The SG values and times, BG readings and times, and Bolus amounts display along the bottom of the screen.

A bolus amount followed by an (N) indicates a normal bolus delivered through the bolus feature. A BG entry is labeled BG, for example: BG, 121 mg/dL, 12:30pm. An SG is displayed with the value and time only, for example: 121 mg/dL, 12:35pm.

Press \(<\) or \(>\) to change the time span shown on the graph. The choices are 3 hours, 6 hours, 12 hours, and 24 hours.
To access these graphs:

1) From the Home screen, press \[ \text{Home} \].
2) Press \[ \text{Previous} \] to scroll back over the graph. Sensor values will be shown at the bottom of the graph.
3) Press \[ \text{Next} \] to see the 6-hour, 12-hour and 24-hour graphs.
4) Press \[ \text{Home} \] to return to the Home screen.
Section 9: Sensor alerts and suspend

Receiving alerts is an important part of wearing CGM. We discussed some of these alerts earlier in “Section 4: Personalized alerts” on page 4. There are other alerts that you will receive as well.

When a sensor alert or low management insulin suspend occurs:

- the notification light will flash.
- the pump will beep or vibrate or both depending on your Audio Options setting.
- the pump will display a message describing what is occurring.

Follow these steps when you receive an alert:

1. Read the text on the screen. Take any action necessary.
2. Press ( ).
3. Press ( ) on the desired option.

Sensor alerts

This is an example of the Alert before low alert message.

This is an example of the Sensor expired alert message.

A table of the most common alerts that you can expect to receive when using CGM can be found in Training handouts on page 49.
SmartGuard: low management suspend

Suspension before low

When **Suspension before low** occurs, this alert message will be displayed. Notice insulin delivery has been stopped. Press ✔️ and ☐️ to clear. Insulin will remain suspended. If **Alert before low** is on, the pump will beep and/or vibrate every minute until cleared. If the alert is not cleared in 10 minutes, the pump will begin to siren.

**Note:** If sensor glucose still reaches the low limit, you will receive an **Alert on low** to notify you.

Suspension on low

When **Suspension on low** occurs, you will receive this alarm message. Notice insulin delivery has stopped. The pump will continue to beep and/or vibrate every minute for 10 minutes until you press ✔️ and ☐️ to clear the alarm.

If the **Suspension on low** alarm is not cleared after 10 minutes:

- The pump will begin to siren.
- This emergency message will appear on the pump screen.

Insulin will remain suspended for a maximum of 2 hours.

Suspension on low home screen

After the **Suspension before low** or **Suspension on low** message is cleared and insulin delivery has stopped, the Home screen will display:

- **Suspension before low** or **Suspension on low** at the bottom of the screen in a red banner.
- A shaded area on the graph to represent the time when insulin has been suspended.
- A flashing SmartGuard low management suspend icon.
Resuming basal insulin

There are two ways insulin can be restarted when a low management suspend is active: automatic and manual resume.

Automatic basal resume

Basal rates will automatically resume if:

- SG values are above the low limit and are trending upward. If you have the Resume basal alert on, you will be alerted when this occurs.
- Insulin has been suspended for the maximum of 2 hours. You will always receive a message and be alerted when this occurs.

Note: Any bolus that was delivering at the time the suspend occurred will not restart when insulin delivery resumes. The basal pattern active at the time the suspend occurred will restart when insulin delivery is resumed. If a Temp Basal was running, the Temp Basal will resume if there is still time remaining.

Manual basal resume

There may be times when you choose to resume basal insulin delivery yourself. Perhaps your healthcare professional has advised you to eat carbohydrates to bring your glucose level up, and does not want insulin to continue to be suspended. You can take these steps to resume basal delivery:

1) From the Home screen, press .

2) Select Suspended before low or Suspended on low.

   The example to the right shows how to resume a Suspended before low.

3) Select Resume Basal.
Low management suspend features unavailable

SmartGuard low management suspend features will be unavailable for a period of time after basal delivery has been resumed following a Suspend on low or Suspend before low event.

The amount of time that low management suspend features will be unavailable is determined by the following:

Unavailable for 30 minutes if any of the following occurs:

- You have manually resumed the basal insulin
- Basal insulin is automatically resumed based on the SG
- You have responded to the alert, and the suspend reaches the 2 hour maximum suspend time

Unavailable for 4 hours if all of the following occur:

- SG has reached the low limit
- You did not respond to the alert
- Basal insulin was suspended for the 2 hour maximum suspend time

Note: If the alert is cleared during the 4 hour unavailable period, the low management suspend feature will be available after 30 minutes has passed.
Section 10: Charging and storing the Guardian Link transmitter

Charge the transmitter before each use. When the transmitter is charging, a green light will flash on the charger. When charging is complete, the green light on the charger will stay on, without flashing, for 15 to 20 seconds and then turn off. You will need to charge the transmitter after each sensor use. A fully charged transmitter can be used for a maximum of seven days without recharging. It can take up to two hours to fully recharge.

When you remove the transmitter from the charger, a green light should flash on the transmitter. This indicates that it has enough battery power to be connected to the sensor. If you do not see the green flashing light on the transmitter, place it back on the charger until it is fully charged.

Store the transmitter, charger, and test plug in a clean, dry location at room temperature. Although not required, you may store the transmitter on the charger.

CAUTION: The transmitter must be charged every 60 days. Do not store the transmitter on the charger for more than 60 days. Otherwise, the transmitter battery will be permanently damaged. Disconnect and reconnect to the charger to re-charge again before use.

If you connect your transmitter to the charger and you see no lights on the charger: Replace the battery in the charger. If there are still no lights on the charger after replacing batteries, the transmitter pins may be damaged. Contact the 24 Hour Helpline.

While charging your transmitter, if you see a flashing red light on the charger: Replace the battery in the charger.

While charging your transmitter, if you see a mix of short and long flashing red lights on the charger: Charge the transmitter for one hour. If the red lights continue to flash, charge the transmitter for eight hours. If the red lights continue to flash after eight hours of charging, please call the 24 Hour Helpline.

Refer to your Guardian Link transmitter and charger User Guides for more information.
Section 11: Traveling by air

If you wear a CGM device, it is safe for use on commercial airlines. If questioned by airline personnel about the use of your device, please show them your airport information card. If they still request that you turn off your CGM device, you must comply. The transmitter cannot be turned off. It can be put on Airplane Mode.

If you need to temporarily stop wireless communication during the flight:

1) Press .
2) Select Options.
3) Select Utilities.
4) Select Airplane Mode.
5) Select Airplane Mode to turn On.
6) Select Save.

The transmitter continues to measure glucose levels when in Airplane Mode.

To resume wireless communication:

1) Press .
2) Select Options.
3) Select Utilities.
4) Select Airplane Mode.
5) Select Airplane Mode to turn Off.
6) Select Save.

When Airplane Mode is turned off and communication resumes, the transmitter will send up to 10 hours of sensor data to your pump.

If Airplane Mode was on for fewer than six hours:

1) Wait 15 minutes for sensor data to appear on pump screen.

If Airplane Mode was on for more than six hours:

1) Disconnect transmitter from sensor and then reconnect it.
2) Select Reconnect Sensor when it appears on the pump screen to begin sensor warm-up.
3) The sensor data (up to 10 hours) will appear on the pump.
4) You will be asked to calibrate in up to 2 hours to resume sensor readings.
It is important to be extra attentive to monitoring your glucose levels while traveling. Always be prepared to respond to changes in glucose if needed.
WARNING: Do not expose your pump to MRI equipment, diathermy devices or other devices that generate strong magnetic fields (for example, x-ray, CT scan, or other types of radiation). The strong magnetic fields can cause the devices to malfunction, and result in serious injury. If your pump is exposed to a strong magnetic field, discontinue use and contact the 24 hour HelpLine for further assistance. Magnetic fields, and direct contact with magnets, may affect the accurate functioning of your system, which may lead to health risks such as hypoglycemia or hyperglycemia.

Cannula infusion sets such as the Quick-Set®, Silhouette® and Mio® can be left in place during the procedure. However, infusion sets that use a needle instead of a cannula to infuse insulin such as the Sure-T®, must be removed prior to the procedure.

Do not expose your sensor or transmitter to MRI equipment, diathermy devices, or other devices that generate strong magnetic fields. Exposure to a strong magnetic field has not been evaluated and can cause the device to malfunction, result in serious injury, or be unsafe. If your sensor or transmitter are inadvertently exposed to a strong magnetic field, discontinue use and contact the 24 Hour HelpLine for further assistance.
This section contains handouts that you can use during or after your training.

- The **Quick Reference Guide for sensor alerts** provides information about alerts that you might receive.
- The **Quick Reference Guide for using the One-press serter with Guardian sensor** reminds you of the steps to take when inserting a new sensor.
- **SmartGuard low management suspend features** provides further details about the low management suspend features.

Feel free to remove these handouts and keep them in a place where they are easily accessible.
## Sensor Alerts

This table shows some of the most common alerts that you may receive when using CGM.

**Note:** To silence an alert, press ☑️, and then press ✗ on the desired option.

<table>
<thead>
<tr>
<th>Alert</th>
<th>Reason</th>
<th>Steps to take</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alert on high</td>
<td>Sensor glucose value is equal to or higher than the high limit that you set.</td>
<td>Do not treat your glucose based on SG. Confirm it using your BG meter. Treat if necessary based on instructions from your healthcare professional and continue to monitor.</td>
</tr>
<tr>
<td>Alert on low</td>
<td>Sensor glucose value is equal to or lower than the low limit that you set.</td>
<td>Do not treat your glucose based on SG. Confirm it using your BG meter. Treat if necessary based on instructions from your healthcare professional and continue to monitor.</td>
</tr>
<tr>
<td>Alert before high</td>
<td>Sensor glucose reading is expected to reach the high glucose limit in the length of time you set for the Time before high.</td>
<td>Do not treat your glucose based on SG. Confirm it using your BG meter. Treat if necessary based on instructions from your healthcare professional and continue to monitor.</td>
</tr>
<tr>
<td>Alert before low</td>
<td>Sensor glucose reading is expected to reach the low glucose limit within 30 minutes.</td>
<td>Do not treat your glucose based on SG. Confirm it using your BG meter. Treat if necessary based on instructions from your healthcare professional and continue to monitor.</td>
</tr>
<tr>
<td>Rise Alert</td>
<td>Sensor glucose reading is increasing at a rate that is equal to or faster than the Rate Limit that you set.</td>
<td>Do not treat your glucose based on SG. Confirm it using your BG meter. Treat if necessary based on instructions from your healthcare professional and continue to monitor.</td>
</tr>
</tbody>
</table>
## Quick Reference Guide for sensor alerts

<table>
<thead>
<tr>
<th>Alert</th>
<th>Reason</th>
<th>Steps to take</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calibrate now</td>
<td>A calibration is needed in order to receive sensor glucose readings.</td>
<td>Enter BG value into your pump to calibrate.</td>
</tr>
<tr>
<td>Lost sensor signal</td>
<td>Communication between pump and transmitter has been lost for 30 minutes during or after warm-up.</td>
<td>Check that the sensor is still inserted in the skin and the transmitter and sensor are still connected. Move your pump closer to your transmitter.</td>
</tr>
<tr>
<td>Calibration not accepted</td>
<td>Your system was unable to use the BG meter reading you entered to calibrate your sensor.</td>
<td>In 15 minutes, your pump will prompt you to enter a new BG meter reading for calibration. Wash your hands and dry thoroughly before checking BG.</td>
</tr>
<tr>
<td>BG not received</td>
<td>The transmitter was unable to receive the calibration BG reading from the pump.</td>
<td>Move your pump closer to your transmitter and select OK. The pump will try sending the BG again.</td>
</tr>
<tr>
<td>Sensor expired</td>
<td>Sensor has reached its maximum usage of 7 full days.</td>
<td>Remove the sensor and follow the instructions for inserting and starting a new sensor.</td>
</tr>
<tr>
<td>Sensor updating</td>
<td>The sensor is updating.</td>
<td>Do not calibrate unless notified. This could take up to 3 hours.</td>
</tr>
<tr>
<td>Change sensor</td>
<td>You have received two Calibration not accepted alerts in a row.</td>
<td>Remove the sensor and follow the instructions for inserting and starting a new sensor.</td>
</tr>
<tr>
<td>Cannot find sensor signal</td>
<td>The pump has not received a signal from the transmitter.</td>
<td>Disconnect and reconnect your transmitter and sensor and select OK.</td>
</tr>
</tbody>
</table>
Quick Reference Guide for using the One-press serter with Guardian sensor

Inserting a new sensor

Wash your hands and clean insertion site with alcohol.

1. Open sensor package. Pull corner of paper covering to open sensor package.

2a. Hold sensor by plastic pedestal. Remove sensor with attached pedestal from packaging by holding pedestal only. Place sensor/pedestal on a clean, flat surface (such as a table).

2b. Tuck adhesive tab. Make sure that sensor’s adhesive tab is tucked under sensor connector and snaps.

3. Load sensor into serter. Grip serter exactly as shown with thumb on thumb print on serter. Do not hold the side buttons. Push serter down onto pedestal until base of serter sits flat on table.

4. Detach serter from pedestal. To detach serter from the pedestal, grip serter as shown with thumb on thumb print on serter. With other hand, place two fingers on pedestal arms, and slowly pull serter straight up.

5a. Place serter on body. Hold serter steadily against your cleaned insertion site, without pushing serter too deeply into skin.

5b. Insert sensor. Press and release bump on both buttons at same time.

5c. Hold serter against body. Continue holding serter against body for at least five seconds to allow adhesive to stick to skin.
Quick Reference Guide for using the One-press serter with Guardian sensor

5d. Remove serter from body.
Slowly pull serter away from skin, making sure buttons are not pressed.

6. Remove needle housing. Gently hold base of sensor against skin with one hand. With other hand, hold needle housing at top and slowly pull it straight away from sensor. Dispose of needle housing in sharps container.

Note: Apply additional liquid adhesive. You may use an optional adhesive such as Skin Tac™ under the adhesive pad, prior to removing the liner. Allow it to dry.

7a. Remove adhesive pad liner.
Hold sensor in place and gently remove adhesive liner from under adhesive pad.

7b. Press entire adhesive pad to skin. Firmly press adhesive against skin and smooth entire adhesive pad so it sticks to skin.

Note: The Guardian sensor adhesive is sensitive to pressure. Continue applying pressure on the adhesive to ensure that the sensor remains inserted in the skin for 7 days of wear.

8a. Untuck adhesive tab. Untuck adhesive tab from under sensor connector.

8b. Straighten adhesive tab.
Straighten adhesive tab so it lies flat against your skin, but do not remove adhesive liner yet.

Taping your sensor

1. Remove liner 1 and liner 2.

2. Apply tape as shown and press down firmly.

3. Remove liner 3 from each side.

4. Smooth the tape.
Quick Reference Guide for using the One-press serter with Guardian sensor

**Connecting your transmitter**

1. Connect the transmitter to the sensor.

   ![Image](image1.png)

**Note:** Wait for green light on transmitter to flash. If green light does not flash, refer to Troubleshooting section of your transmitter user guide.

2. Remove liner from adhesive tab. Cover transmitter with adhesive tab.

   ![Image](image2.png)

**Note:** Do not pull tab too tightly.

3. To apply 2nd tape, remove liner 1 and liner 2.

   ![Image](image3.png)

4. Rotate 2nd tape and place tape over transmitter. Press down firmly.

   ![Image](image4.png)

   **Wide part of tape covers end of transmitter and skin.**

5. Remove liner 3 from each side.

   ![Image](image5.png)

6. Smooth the tape.

   ![Image](image6.png)

**Note:** Check your site regularly. Apply additional off-the-shelf tape if sensor and transmitter not secure.

7. This image is an example of Oval Tape applied correctly.

   ![Image](image7.png)

**Starting the sensor**

1. Once **Sensor connected** message appears, press ![checkmark] This typically takes less than a minute, but may take up to 10 minutes.

   ![Image](image8.png)

2. Select **Start New Sensor**.

   ![Image](image9.png)

3. The **Sensor warm-up started** message will appear. Press ![checkmark] and then ![clear] to clear.

   ![Image](image10.png)

4. **Warm up...** will appear on the Home screen until sensor is ready for the first calibration.

   ![Image](image11.png)
Quick Reference Guide for using the One-press serter with Guardian sensor

**Calibrating**

1. Select **Snooze**.

![Image of Snooze screen](image1.png)

2. Pump will display this screen. Test BG and use to calibrate the sensor. See “Calibration” on page 31 if you need help calibrating.

![Image of Calibration required screen](image2.png)

3. Once calibration BG is entered, this screen will display. You will begin receiving sensor glucose readings in 10 minutes.

![Image of Calibration screen](image3.png)
SmartGuard™ low management suspend features

The images below show additional detail about using the SmartGuard low management suspend features of your MiniMed® 670G System.

**Suspend on low** event:

If sensor glucose (SG) reaches your low limit, insulin delivery will be stopped.

You will always receive a message and alarm when this occurs.

You will have 10 minutes to respond before the pump begins to siren and emergency message appears.

**Suspend before low** event:

To help keep sensor glucose (SG) from reaching your low limit, insulin delivery will be stopped if SG is:

- At or within 70 mg/dL above the low limit.
- Predicted to be approaching the low limit in 30 minutes.

If **Alert before low** is on, you will receive an alert when insulin is suspended.

**Alert on low** during **Suspend before low**:

If insulin delivery has stopped due to **Suspend before low**, SG may still reach your low limit.

You will always be alerted when this occurs.

You will have 10 minutes to respond before the pump begins to siren and emergency message appears.
SmartGuard™ low management suspend features

Automatic basal resume based on sensor glucose (SG) value:

During **Suspend before low** or **Suspend on low**, basal insulin will automatically resume if:

- SG is above the low limit and trending upward.
- Insulin has been suspended by low management for at least 30 minutes.

If **Resume basal alert** is on, you will receive an alert when this occurs. Remember, you can manually resume basal insulin at any time.

Automatic basal resume due to 2 hour maximum suspend:

During either **Suspend before low** or **Suspend on low**, if basal insulin is not resumed due to SG values, it will automatically resume after 2 hours.

You will always receive an alert when you reach the 2 hour maximum suspend time, even if the **Resume basal alert** is set to Off. Remember, you can manually resume basal insulin at any time.

Low management suspend unavailable:

Once basal insulin resumes following either **Suspend before low** or **Suspend on low**, there will be a period of time when low management suspend is unavailable.

This will most often be 30 minutes if you respond to the suspend alarm, but can be up to 4 hours. See **Suspend before low** in your insulin pump user guide for more specific information about this unavailable period.