GUARDIAN™ CONNECT

APP USER GUIDE

Medtronic

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Introduction

Thank you for choosing Medtronic as your diabetes management partner.

The Guardian™ Connect application (app) is a component of the Guardian Connect Continuous Glucose Monitoring (CGM) system that helps you manage your diabetes by:

- Recording your glucose values throughout the day and night.
- Displaying your glucose values in a convenient and discrete manner using your mobile device.
- Alerting you to glucose events using your mobile device.
- Showing the effects that diet, exercise, and medication can have on your glucose levels.
- Giving you additional tools, such as alerts and the ability to record diet, exercise, and insulin intake, to help you prevent high and low glucose levels.

This user guide is designed to help you understand the setup and operation of your Guardian Connect app.

Note: *The user guide contains some instructions that are specific to Android™* or iOS™* platforms. Where applicable, follow the instructions specific to your platform.*

System description

This guide describes how to set up and use the system. The Guardian Connect system includes the following components: Guardian Connect iOS app (CSS7200) or Guardian Connect Android app (CSS7201), and Guardian Connect transmitter with compatible glucose sensor, tester, and charger.

CGM is a technology that lets you continuously view your sensor glucose values. The Guardian Connect system uses a glucose sensor, placed below your skin, to continuously measure the amount of glucose in your interstitial fluid. The Guardian Connect transmitter collects these glucose measurements, which are then converted to sensor glucose values. These sensor glucose values are then displayed on the Guardian Connect app. The Guardian Connect app can also provide alerts regarding your sensor glucose levels.

Note: *This product should only be used with supported mobile devices. Refer to your local Medtronic website or HelpLine for information about supported devices and operating systems.*

Intended use

The app is intended for use by patients with a compatible consumer mobile device. The app displays sensor glucose data, and also provides a user interface for sensor calibration, entering data such as exercise and meals, and uploading information to the CareLink™ Personal website. It allows users to track patterns in glucose concentrations and possibly identify episodes of low and high glucose. The app provides alerts if a glucose level reaches, falls below, or rises above your set sensor glucose limits.

User Safety

This section includes important safety information such as indications, contraindications, and safety warnings.

Contraindications

Continuous glucose monitoring is not recommended for people who are unwilling or unable to perform a minimum of two meter blood glucose tests per day or for people who are unable or unwilling to maintain contact with their healthcare professional. Successful CGM use requires sufficient vision and hearing to allow recognition of the alerts generated by the Guardian Connect app.

Safety Warnings

App and Mobile Device

- Missing alerts from the Guardian Connect app may result in undetected low and high glucose levels. Follow the instructions and safety warnings in this user guide to make sure you receive alerts as intended.
- You must set up your mobile device to allow notifications for the Guardian Connect app. Also, do not turn off notifications for the Guardian Connect app in your mobile device settings. If notifications are off, you will not receive any alerts (including the Urgent Low Sensor Glucose alert) even if the audio override feature is on.
- Do not use the Guardian Connect app unless you understand how your mobile device settings work. If your mobile device settings are not set up correctly, you may not receive sensor glucose alerts, and status alerts.
- Make sure Bluetooth™* is on, even if your mobile device is in Airplane mode. If Bluetooth is off, you will not get sensor glucose information or alerts.
- Do not use the Guardian Connect app if your mobile device screen or speakers are damaged. If your mobile device is damaged, you may not get sensor glucose alerts, and status alerts, or sensor glucose information may not be shown correctly.

- If you turn off the override feature in the Guardian Connect app, the alerts will be based on the ringer setting of your mobile device. If your ringer is set to Do Not Disturb, silent, or a low volume, you may not hear sensor glucose alerts, and status alerts.
- **Android Users:** To ensure that you will receive sensor glucose alerts, and status alerts, turn on the "Do not disturb permission" option. The override feature must also be turned on in the Guardian Connect app settings to ensure you will get sensor glucose alerts, and status alerts.
- Alerts for the Guardian Connect app will sound through your headphones when headphones are connected. If you leave your headphones connected when you are not using them, you may not hear sensor glucose alerts, and status alerts.
- Do not close the Guardian Connect app. If the app is closed, you will not get sensor glucose information or status alerts.
- Your mobile device may close the Guardian Connect app automatically when you are using another app, such as a game. If the Guardian Connect app is closed, you will not get sensor glucose information, sensor glucose alerts or status alerts. Check the Guardian Connect app occasionally to make sure it is open.
- If your mobile device restarts, the Guardian Connect app will not restart automatically. If you do not open the app again, you will not get sensor glucose alerts and status alerts. Always make sure to open the app after your mobile device restarts.
- Do not let your mobile device shut down due to low battery, or you will not get sensor glucose alerts and status alerts. Make sure you have a charger available, so you can charge your battery if needed.
- When you snooze a sensor glucose alert, you won't get that alert again during the length of the snooze period you set. Make sure to set the snooze to a short enough period of time so that you can be sure to get an alert again if your glucose level doesn’t improve.
- Do not make therapy decisions based on sensor glucose values because sensor glucose and blood glucose (BG) values may be different. Confirm your glucose level with your blood glucose meter before making treatment decisions, such as dosing insulin before a meal or taking carbs to treat a low blood glucose level.
- Do not root or jailbreak your mobile device. Rooting or jailbreaking means to change the software of your mobile device in a way the manufacturer did not intend. If you change your mobile device in this way, you may not get sensor glucose alerts, and status alerts, and your sensor glucose information may not be shown correctly.

- Taking medications with acetaminophen or paracetamol including but not limited to fever reducers or cold medicine while wearing the sensor may falsely raise your sensor glucose readings. The level of inaccuracy depends on the amount of acetaminophen or paracetamol active in your body and may be different for each person. Always use blood glucose meter readings to verify your glucose level before making therapy decisions.

Note: *The Guardian Connect app contains a glucose monitoring alert feature which provides alerts prior to sensor glucose levels reaching a high or low limit set by you. Sensor glucose readings can vary from actual blood glucose readings, therefore there may be situations when alerts are displayed and your blood glucose levels have not reached the set high or low limit. Consult your healthcare professional for actions and adjustments to alerts. There may also be situations when your blood glucose levels have reached the set high or low limit without any alerts displayed on the Guardian Connect app. If you experience symptoms of high or low blood glucose levels, check your blood glucose value immediately. Consult your healthcare professional for actions and adjustments for high or low blood glucose levels.*

Precautions

- You must test your blood glucose levels at least two times per day, or as indicated by the system. If the app indicates that your sensor glucose is not within your glucose target range, check your blood glucose using your blood glucose meter.

Assistance

Please contact your local representative for assistance. Refer to the Medtronic Diabetes International Contacts list in this user guide for contact information.

How to use this guide

The following table describes terms and conventions used in this guide.

Convention	Description
Toggle	Indicates that the same feature on the screen can be used to switch between two options. For example, "Toggle an alert on" means that you slide a switch right to turn on an alert. To turn it off, you need to slide the same switch left.
Bold	Indicates an item on the screen that you select with your finger or tap to open.
>	A shorthand to indicate a series of selections you make on the screen. For example, **Alert Settings** > **Rate Alerts** means that you need to tap **Alert Settings**, and then on the next screen tap **Rate Alerts**.
Note	Provides additional helpful information.
CAUTION	Notifies you of a potential hazard which, if not avoided, may result in minor or moderate injury or damage to the equipment.
WARNING	Notifies you of a potential hazard which, if not avoided, could result in death or serious injury. It may also describe potential serious adverse reactions and safety hazards.

Guardian Connect app setup

When opening the Guardian Connect app for the first time, it walks you through the setup process. Simply follow the instructions on your screen.

WARNING: You must allow notifications for the Guardian Connect app during setup. Also, do not turn off notifications for the Guardian Connect app in your mobile device settings. If notifications are off, you will not receive any alerts (including the Urgent Low Sensor Glucose alert) even if the audio override feature is on.

WARNING: For Android users, if you turn off the override feature and your ringer is set to Do Not Disturb, you will not hear sensor glucose alerts and status alerts, even if the Guardian Connect app is allowed as an exception or priority.

Pairing your transmitter

Follow the instructions on your screen to pair your transmitter to your mobile device.

Note: ***For Android users****, make sure to enable the location feature on your mobile device while you are pairing the transmitter.*

New sensor setup

Follow the instructions on how to insert the sensor, using your sensor and serter user guides. Then follow the on-screen instructions to complete the sensor start up.

Note: *You must connect your transmitter to your sensor before completing setup.*

Connecting the transmitter to the sensor

Refer to your transmitter user guide for instructions on how to connect the transmitter to the sensor.

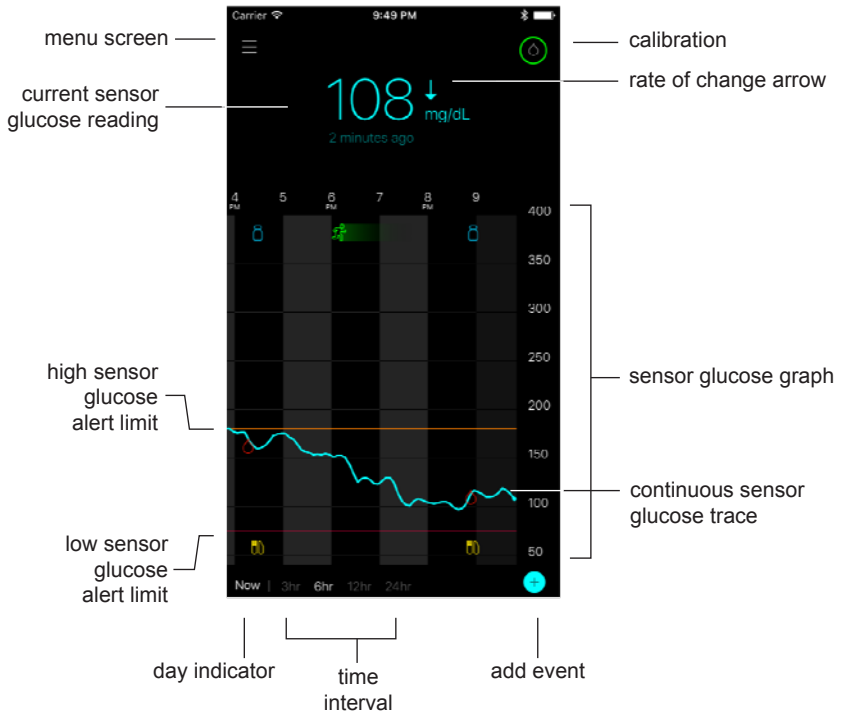
Completing your app setup

Continue to follow the on-screen instructions, allow notifications and then setup alerts for the app. For more information, see *Alert settings, on page 19*.

WARNING: You must allow notifications for the Guardian Connect app from your operating system Settings menu during setup. Do not turn off notifications for the Guardian Connect app in your mobile device settings. If notifications are off, you will not receive any alerts, even if the audio override feature is on. Make sure notifications are always on for the Guardian Connect app.

Home screen

The following figure shows the Home screen of the app.



Note: *This screen may vary depending on your mobile device and platform.*

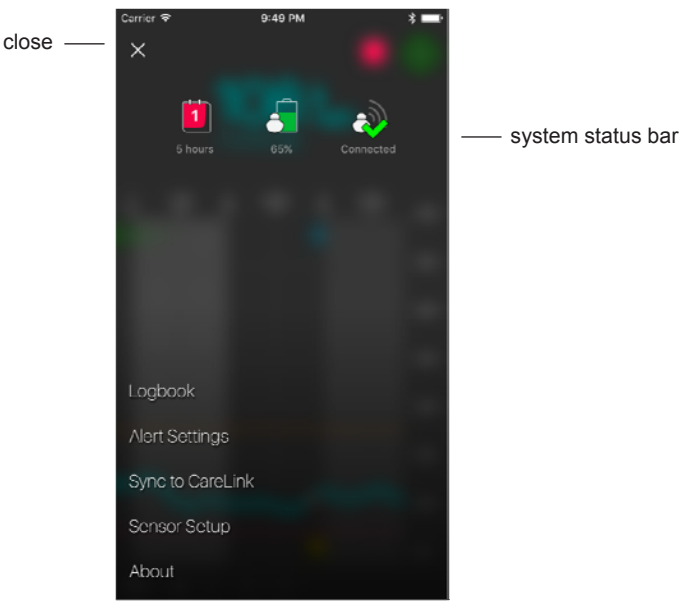
Note: *When you open your app for the first time, there will be no sensor information displayed on the Home screen. Your first sensor glucose reading appears after you successfully paired your transmitter and calibrated your sensor.*

Item	Description
Calibration	Displays the Calibration screen where you enter a blood glucose (BG) meter reading for sensor calibration. For details, see *Calibrating your sensor, on page 12*. The color of the ring and the size of its displayed segment indicate calibration status and the approximate time left until your next sensor calibration is due. When your sensor is fully calibrated, the ring is solid green. As the time for your next sensor calibration approaches, segments of the ring disappear, and the color of the ring changes, until a red blood drop appears instead of the ring, as shown:  A full green circle indicates 12 hours remaining to the next calibration. Half green circle indicates 6 hours remaining to the next calibration. Orange indicates 3 hours remaining. Red indicates one hour remaining. When the red blood drop appears, an alert is displayed instructing you to calibrate your system. The question mark indicates that the calibration status is unknown. Three dots indicate that a calibration currently is not permitted. Selecting any of the blue icons depicted above will provide the user with more information about the calibration status.
Rate of change arrows	Display your glucose trend and the rate at which the most recent sensor glucose level has risen or fallen. For details on setting the rate of change for falling and rising sensor glucose values, see *Setting rate alerts, on page 21*.
Menu screen	Provides access to the menu screen, which displays the Guardian Connect system status information and allows you to set up your sensor, define alert settings, view the logbook, and access CareLink Personal settings. For details, see *Menu screen, on page 10*.
Continuous sensor glucose trace	Displays your current and previous SG readings. Tap any point on the graph to view the details of the selected sensor glucose reading or event in a box that appears above. For more navigating tips, see *Navigating through the sensor glucose graph, on page 23*.
System status icons	Display the corresponding status icon if the transmitter battery is empty, the life of your sensor has expired, the connection with the transmitter is lost, you have active notifications that are silenced, or the status of these features is unknown. For details, see *System status icons, on page 11*.
Time interval	Displays preset time intervals of 3, 6, 12, and 24 hours. Tap this icon to switch between time intervals.
Current sensor glucose reading	Displays your current sensor glucose reading, which the transmitter calculates and sends wirelessly to the app.

Item	Description
High and low sensor glucose alert limits	Display a line showing the high and low sensor glucose limits on the sensor graph. The orange line indicates your sensor glucose high limit; the red line indicates your sensor glucose low limit.
Sensor status message	Displays the latest active status notification. If a current sensor glucose reading is not available, the sensor status message will appear where the sensor glucose information would be displayed.
Sensor glucose graph	Displays a blue line representing your sensor glucose readings over a selected time interval. It also indicates your high and low glucose limits. For details on the sensor graph, see *Sensor graph, on page 23*.
Day indicator	Displays the date of the data shown in the graph. As you scroll further back into historical data, the date is displayed as Today, Yesterday, days of the previous week.
Add event	Displays the events screen where you can enter additional information, such as exercise, blood glucose readings, meals you eat, or insulin you take. Certain blood glucose readings entered here may be also used for sensor calibration. For details, see *Events, on page 25*.

Menu screen

The Menu screen appears when you tap ☰ on the Home screen.



Item	Description
Close (X)	Closes the menu screen and returns you to the Home screen.
System status bar	Displays icons that show a quick status of your Guardian Connect system, including transmitter battery, sensor life, and transmitter communication. For details on the individual icons and their status, see *System status icons, on page 11*.
Logbook	Displays a history of alerts and events that have occurred in the Guardian Connect system. For details, see *Logbook, on page 28*.
Alert Settings	Display the options for setting glucose monitoring alerts and calibration reminders. For details, see *Alert settings, on page 19*.
Sync to CareLink	Provides access to a menu for changing your CareLink Personal user login information.
Sensor Setup	Displays the instructions for starting a new sensor. For details, see *New sensor setup, on page 6*.
About	Provides the user with software version information, access to the user guide, and reference to the end user license agreement.

System status icons

The system status icons appear at the top of the Menu screen. These icons provide a way for you to quickly check the status of your system. If any condition becomes critical and requires your immediate attention, the corresponding status icon also is displayed on the Guardian Connect Home screen next to the calibration icon. The icons displayed on the Home screen are interactive and provide more information about the current status of your system.

Icon name	Description
Transmitter battery	As the battery charge decreases while you are using the system, the icon changes in the following order.  The different icons indicate different battery levels while your battery charge is decreasing from 100% to 0%. When your battery is full, the icon is solid green  indicating that approximately 100% of your battery capacity remains, which means you can expect at least 7 days of use remaining. An orange icon  indicates that approximately 50% of your battery capacity remains. A single red bar  indicates you have up to one day of use remaining. When the battery is empty, the icon is a red outline  . The question mark  indicates that the battery status is unknown.

Icon name	Description
Sensor life	As your sensor life is used, the number on the icon indicates the number of days left before you need to replace your sensor, and the color of the icon changes as shown:  When you insert a new sensor, the icon is solid green. When there is less than one day left before you need to replace your sensor, the 1-day icon remains red, and the text below it indicates the number of hours remaining. The question mark indicates that the sensor life is unknown. When the sensor is expired, you will see an "X".
Transmitter communication	The communication status between your transmitter and the app:  — the transmitter is active and connected  — there is a communication error, the transmitter is not paired to your mobile device, or Bluetooth is off.
Notification	The notification icon indicates that you may miss an alert because the override feature is turned off. The notification icon will display on the Home screen of the app when the override feature is turned off and your device is set to silent or the notifications feature in your mobile device is turned off. 

Calibrating your sensor

Calibration is the process of entering a blood glucose meter reading to calculate sensor glucose values. You must calibrate your sensor regularly to ensure you continue to receive accurate sensor glucose data. For details, see *Calibrating guidelines, on page 13*.

Note: *The Guardian Connect system requires up to a two-hour warm-up, from the time the sensor is connected to the transmitter, before you can calibrate your sensor. The calibration icon remains hidden until the sensor has completed its warm-up.*

Whenever a sensor calibration is due, you will receive an alert instructing you to calibrate your sensor now. After you calibrate the sensor, it may take up to five minutes to receive updated sensor glucose values. If you do not calibrate after receiving a calibration alert, your transmitter stops calculating your sensor glucose values until you calibrate your sensor.

The following table describes when a sensor calibration is required.

Required calibration	When?	Description
First	Within two hours after connecting a new sensor.	Sensor will take up to two hours to become operational. As soon as it is initialized, you will be asked to calibrate your sensor.
Second	Within six hours after your first calibration.	If you do not calibrate for more than six hours after the first calibration, your transmitter stops calculating your sensor glucose values until you calibrate your sensor.
Subsequent	Within 12 hours after your second calibration and at least every 12 hours thereafter.	If you do not calibrate for more than 12 hours, your transmitter stops calculating your sensor glucose values until you calibrate your sensor. You must calibrate the sensor at least every 12 hours throughout its life. For details, see *Calibrating guidelines, on page 13*.

Note: *You may also receive an additional calibration alert, "Calibrate Now" to let you know that another calibration is required to improve sensor performance. If you do not calibrate after receiving a "Calibrate Now" alert, your transmitter stops calculating your sensor glucose values until you calibrate your sensor. Additionally, your app may stop displaying sensor glucose values.*

Calibrating guidelines

Follow these guidelines for best sensor calibration results:

- Calibrate three to four times at regular intervals throughout the day to improve accuracy. If necessary, set a calibration reminder as explained in *Setting calibration reminders, on page 22*.
- Enter your blood glucose meter reading into the app immediately after testing your blood glucose.
  Review your BG meter instructions for use, regarding guidance on how to test your blood glucose.
- Always wash your hands before testing your blood glucose.
- Use only your fingertips when obtaining blood samples for calibration.
- Avoid using an old blood glucose reading or reusing blood glucose readings from previous calibrations.
- If for some reason calibration is unsuccessful, you must wait at least 15 minutes before attempting another calibration.

Note: *If your blood glucose meter readings are significantly different from your sensor glucose readings, wash your hands and calibrate again.*

Entering blood glucose meter readings for calibration

You can enter a blood glucose meter reading for calibration from the Calibration screen as described in this section or when you enter a blood glucose meter reading on the Events screen, as described in *Entering blood glucose meter readings, on page 25*.

To enter a blood glucose meter reading for sensor calibration:

1 Take a blood glucose meter reading.
2 On the Home screen of the app, tap the calibration icon.
3 Using the number pad, enter the blood glucose value between 2.2 mmol/L and 22.2 mmol/L (40 mg/dL and 400 mg/dL).
4 Make sure the value displayed above the number pad is correct. If not, tap ⌫ to clear it and enter the correct value.
5 Tap **Calibrate** at the top. Confirm the value, and then tap **Calibrate sensor X.X mmol/L (XX mg/dL)**.
The app returns to the Home screen, and a blood drop appears on the sensor glucose graph at the time of the entry. Your sensor glucose reading appears within five minutes after calibration.

Alerts

The Guardian Connect app provides **glucose alerts** and **system status alerts**. These alerts can inform you about your glucose levels and the status of your Guardian Connect system.

Glucose Alerts

You can set **glucose alerts** to receive a notification in the following situations:

- Your sensor glucose values are rising or falling at or faster than a particular rate.
- Your sensor glucose values have gone above or below the glucose limits that you set.
- Your sensor glucose values are predicted to go above or below the glucose limits that you set.

The **glucose alerts** in the Guardian Connect system are listed in the following table:

Alert type	Description
High Sensor Glucose	Your sensor glucose level has gone above your high glucose limit.
High Predicted	Your sensor glucose is predicted to go above the high glucose limit you set, within the period of time that you set. This alert can be set up to 60 minutes before your sensor glucose level goes above your high glucose limit.

Alert type	Description
Rise Alert	Your sensor glucose is rising faster than or equal to the rate you set (this rate is indicated by the rising arrows displayed next to your sensor glucose level).
Low Sensor Glucose	Your sensor glucose level has gone below your low glucose limit.
Low Predicted	Your sensor glucose is predicted to go below the low glucose limit you set, within the period of time that you set. This alert can be set up to 60 minutes before your sensor glucose level falls below your low glucose limit.
Fall Alert	Your sensor glucose is falling faster than or equal to the rate you set (this rate is indicated by the falling arrows displayed next to your sensor glucose level).
Urgent Low Sensor Glucose	Your sensor glucose level has gone below 3.1 mmol/L (55 mg/dL).

Note: *You will always receive an Urgent Low Sensor Glucose alert when your sensor glucose level reaches 3.1 mmol/L (55 mg/dL) or goes below it. This alert will also produce a sound regardless of your mobile device's volume or your override feature setting on your app. But remember, you need to allow notifications for the Guardian Connect app, on your mobile device.*

Glucose alerts can be customized and are set up during system setup, or as described in *Alert settings, on page 19*.

System Status Alerts

The Guardian Connect system also has system **status alerts** that inform you when you need to take action to ensure the correct functioning of the system. See the following tables for a complete list of system **status alerts**. For more information on how to address these alerts, see *Troubleshooting, on page 31*.

The **status alerts** in the Guardian Connect system are listed below:

When you receive the following status alerts, you will still receive sensor glucose information, but you should respond to these alerts, so you can continue to receive sensor glucose information in the future.

Alert type	Description
Calibrate by	You programmed the calibration reminder to alert you when a calibration will be due.
Mobile Device Battery Low	Your mobile device battery has fallen at or below 20% of its power.

Note: *Your mobile device battery will deplete more quickly when you use the app.*

The **status alerts** in the Guardian Connect system are listed in the following table:

When you receive the following status alerts, you will no longer receive sensor glucose information.

Alert type	Description
Calibrate Now	You need to calibrate your sensor in order to get sensor glucose readings.
Calibration Not Accepted	Your BG meter value could not be used to calibrate.
Change Sensor	You may have received a second Calibration not accepted alert or the sensor is not working properly.
Lost Communication	Your Guardian Connect app and transmitter haven't been communicating for 30 minutes. Your app may have closed if there are too many apps running at the same time or if there is radio frequency (RF) interference.
Sensor End of Life	Sensor has reached its maximum life.
Sensor Glucose Not Available	There is no sensor information due to several possible causes, or the sensor is not working properly.
Transmitter Battery Empty	Your transmitter battery is empty and needs to be recharged. You are no longer receiving sensor information.
Transmitter Error	The transmitter is trying to fix a problem.

How the Guardian Connect app will alert you

Your mobile device has several options for adjusting notification sounds, such as silent mode and the Do Not Disturb feature. Your Guardian Connect app has features to make sure you can receive Guardian Connect alerts, even if the mobile device is in silent mode or the Do Not Disturb feature is turned on. To make sure you get all the alerts you want, do the following:

1 Allow notifications on your mobile device for the Guardian Connect app.
If the notification feature has not been allowed, you will see on the Guardian Connect app Home screen. To allow the notifications feature on your mobile device, go to your mobile device Settings by tapping on .

Note: ***Android users****, for the override feature to work, the "Do Not Disturb Permissions" option must be allowed in the Android settings.*

WARNING: You must allow notifications from your mobile device for the Guardian Connect app during setup. Do not turn off notifications for the Guardian Connect app in your mobile device settings. If you don't set up your mobile device to allow the Guardian Connect notifications, you will not receive any alerts, even if the audio override feature on the app is turned on. Make sure that your mobile device is set to always allow the Guardian Connect app notifications.

2 The audio override feature helps make sure you hear alerts, even when your mobile device is set to silent or Do Not Disturb.
The app has an audio override feature that allows your app alerts to sound at maximum volume, even if your mobile device's ringer volume is set to Do Not Disturb, low volume, or silent (vibrate). **The audio override feature is already turned ON** for all app alerts when you first start using your app.

After the initial setup, you can choose which alerts (Low Alerts, High Alerts, and Status alerts) will override the ringer volume. You can also turn off the override feature entirely, if you prefer. Your override feature setting won't affect the Urgent Low Sensor Glucose alert.

3 The Urgent Low Sensor Glucose alert will sound even if the audio override feature is turned off.
This alert will always alert you when your glucose level reaches 3.1 mmol/L (55 mg/dL). As long as you allow notifications for Guardian Connect app on your mobile device, you will always get this alert; even if your mobile device is set to Do Not Disturb, silent (vibrate), or the ringer volume is low.

Changing audio override feature settings

1 Tap ☰ on your app home screen. Tap **Alert Settings**. Then tap **Audio**.
2 Switch **Override** to On or Off.
3 Switch your **Low Alerts**, **High Alerts**, and **Status Alerts** to On or Off.
4 At the top of the screen, tap **Save**.

WARNING: If you turn off the override feature in the Guardian Connect app, the alerts will be based on the ringer setting of your mobile device. If your ringer is set to Do Not Disturb, silent (vibrate), or a low volume, you may not hear sensor glucose alerts and status alerts.

How does the audio override work?

Your app settings	Your mobile device's volume	App alerts you will get
Audio override ON	Ringer volume is ON Vibrate only Do Not Disturb is ON	Sound at maximum volume
Audio override OFF	Ringer volume is ON	Same sound as mobile device ringer volume
	Vibrate only	No sound but will vibrate
	Do Not Disturb is ON	No sound or vibrate

WARNING: Alerts for the Guardian Connect app will sound through your headphones when headphones are connected. If you leave your headphones connected when you are not using them, you may not hear sensor glucose alerts and status alerts.

WARNING: Do not close the Guardian Connect app. If the app is closed, you will not get sensor glucose alerts and status alerts.

WARNING: Your mobile device may close the Guardian Connect app automatically when you are using another app, such as a game. If the Guardian Connect app is closed, you will not get sensor glucose alerts and status alerts. Check the Guardian Connect app occasionally to make sure it is open.

WARNING: The Guardian Connect app will provide an alert when your mobile device battery has 20% charge level. Do not let your mobile device shut down due to low battery, or you will not get sensor glucose alerts and status alerts. Make sure you have a charger available, so you can charge your battery if needed.

Note: *The media volume setting is used to adjust the volume of music, videos, and sounds in some games and other apps. The ringer volume is the setting that is used to adjust the volume of phone calls, text messages, and other notifications. When the audio override is active, your Guardian Connect alerts will always play at the maximum media volume of your device.* ***For iOS Users,*** *when the Guardian Connect app is open or running in the background, the side volume buttons on your mobile device will only control the media volume (not the ringer volume).*

Note: *When an alert is triggered, and the audio override feature is active, you may briefly see your phone's volume settings displayed on screen while the Guardian Connect app adjusts your device volume. You can continue to use your device normally. The volume display may also appear a second time as the Guardian Connect app restores your previous volume level.*

Alert settings

Setting high alerts

High alert settings include the following:

High alert setting	Description
High Limit	Your high glucose limit is the value on which your other high settings are based. Your high limit can be set from 5.5 mmol/L to 22.2 mmol/L (100 mg/dL to 400 mg/dL). On your sensor glucose graph, your high limit appears as an orange horizontal line at the value that you set.
Alert on High	When Alert on High is on, your system displays a High Sensor Glucose alert when your sensor glucose value reaches or exceeds your high limit.
Alert Before High	When Alert Before High is on, you will receive a High Predicted alert any time the sensor glucose is predicted to reach your high limit. This makes you aware of potential high glucose levels before they occur.
Time Before High	The Time Before High option is available only when the Alert Before High feature is on. This option determines when you will receive a High Predicted alert, if your sensor glucose values continue to increase at the current rate of change. You can set a time between ten minutes and one hour.

To set your high alerts:

1 On the Home screen, tap ☰ and select **Alert Settings** > **High Alerts**.

2 Toggle **All Day** to switch between all-day alerts and different alerts for day and night.
If you choose to set different alerts for day and night, two sets of settings appear.

3 For daytime alerts, tap **Day starts at** and set the desired start time for the selected day period.

4 Tap **High Limit** and set the desired limit between 5.5 mmol/L and 22.2 mmol/L (100 mg/dL and 400 mg/dL).
This toggles **Alert on High** on.

5 Return to the High Alerts screen and tap **Save**.

6 If you want to receive alerts when your sensor glucose is approaching your high limit:

a. Toggle **Alert Before High** on.
b. Tap **Time Before High** and set the desired time when you want to receive a High Predicted alert.

7 If you are setting different alerts for day and night, tap **Night starts at**, select the time, and repeat steps 4 and 5 to set your nighttime alerts.

8 Tap **Save** at the top of the screen to save your settings. Then tap **Alert Settings** to define the other alert settings, such as the snooze time period for the alerts you have just set.

9 When you have completed setting up your alerts, tap **Home** to return to the Home screen.

Setting low alerts

Low alert settings include the following:

Low alert setting	Description
Low Limit	Your low glucose limit is the value on which your other low settings are based. Your low limit can be set from 3.3 mmol/L to 5.0 mmol/L (60 mg/dL to 90 mg/dL). On your sensor glucose graph, your low limit appears as a red horizontal line at the value that you set.
Alert on Low	When Alert on Low is on, your system displays a Low Sensor Glucose alert when your sensor glucose value reaches or falls below your low limit.
Alert Before Low	When Alert Before Low is on, you will receive a Low Predicted alert any time the sensor glucose is predicted to reach your low limit. This makes you aware of potential lows before they occur.
Time Before Low	Time Before Low is available only when Alert Before Low is on. Time Before Low determines when you will receive a Low Predicted Alert, if your sensor glucose values continue to decrease at the current rate of change. You can set a time between ten minutes and one hour.

You can define your low alert settings for the entire day or use different settings during the day and at night.

To set your low alerts:

1 On the Home screen, tap ☰ and select **Alert Settings** > **Low Alerts**.

2 Toggle **All Day** to switch between all-day alerts and different alerts for day and night. If you choose to set different alerts for day and night, two sets of settings appear.

3 For daytime alerts, tap **Day starts at** and set the start time for the selected day period.

4 Tap **Low Limit** and set the desired limit between 3.3 mmol/L and 5.0 mmol/L (60 mg/dL and 90 mg/dL). This toggles **Alert on Low** to on.
5 Return to the Low Alerts screen and tap **Save**.
6 If you want to receive alerts when your sensor glucose is approaching your low limit:
   a. Toggle **Alert Before Low** to on.
   b. Tap **Time Before Low** and set the desired time when you want to receive a Low Predicted alert.
7 If you are setting different alerts for day and night, tap **Night starts at**, select the time, and repeat steps 4 and 5 to set your nighttime alerts.
8 At the top of the screen, tap **Alert Settings** to save your settings and to define the other alert settings, for example, the snooze time period for the alerts you have just set.
9 When you have completed setting up your alerts, tap **Home** to return to the Home screen.

Setting rate alerts

Rate alerts notify you when your sensor glucose is rising (Rise Alert) or falling (Fall Alert) equal to or faster than a specified rate. These alerts help you understand how your glucose levels are affected, for example, by meals or exercise.

On the Home screen, these rapidly rising or falling trends are indicated by arrows, as shown in *Home screen, on page 8*. The more arrows, the higher the rate of change.

To set your rate alerts:

1 On the Home screen, tap ☰ and select **Alert Settings** > **Rate Alerts**.
2 Toggle **Rise Alert** to on.
   Three options appear, with the number of arrows corresponding to a specific rise rate that is equal to or faster than the rate you set for the alert. One arrow signals a 0.06 mmol/L (1 mg/dL) rise; two arrows signal a 0.11 mmol/L (2 mg/dL) rise; and three arrows signal a 0.17 mmol/L (3 mg/dL) rise.
3 Tap the arrow option with the rise rate you want to use.
4 Toggle **Fall Alert** to on.
   Three options appear, with the number of arrows corresponding to a specific fall rate that is equal to or faster than the rate you set for the alert. One arrow signals a 0.06 mmol/L (1 mg/dL) fall; two arrows signal a 0.11 mmol/L (2 mg/dL) fall; and three arrows signal a 0.17 mmol/L (3 mg/dL) fall.
5 Tap the arrow option with the fall rate you want to use.

6 At the top of the screen, tap **Save** > **Alert Settings** to return to the Alert Settings screen. Then tap **Home** to return to the Home screen.

Setting alert snooze time

The snooze feature lets you set a snooze time period for your alerts. This feature will remind you of the alert condition after a set period of time, if the alert condition still persists. You can set the snooze time period for high and rise alerts, which can be different from the snooze time period for low and fall alerts.

To set your alert snooze time period:

1 On the Home screen, tap ☰ and select **Alert Settings** > **Snooze Time**.
2 Tap **High & Rise Alerts** and set the desired amount of time before you are reminded of the existing alert condition.
3 Tap **Low & Fall Alerts** and set the desired amount of time before you are reminded of the existing alert condition.
4 At the top of the screen, tap **Save** > **Alert Settings** to return to the Alert Settings screen. Then tap **Home** to return to the Home screen.

Setting calibration reminders

Calibration reminders notify you before you have to calibrate your sensor. You can set a reminder for yourself that sensor calibration is due within a specified period of time. For example, if you set your reminder to 30 minutes, you will receive a "Calibrate By" alert 30 minutes before you need to enter a BG meter reading for calibration.

To set a calibration reminder:

1 On the Home screen, tap ☰ and select **Alert Settings** > **Calibration Reminder**.
2 Toggle **Reminder** to on.
3 Set the desired amount of time to be alerted before sensor calibration is due.
4 At the top of the screen, tap **Save** > **Alert Settings** to return to the Alert Settings screen. Then tap **Home** to return to the Home screen.

Setting audio override feature

You can set which type of alerts you want to sound regardless of your device ringer setting. When you first start using your app, all of the alerts will override your device ringer setting. You can change the audio override feature if you prefer not to override your device ringer setting.

To set an override:

1 Tap ☰ on your app home screen. Tap **Alert Settings**. Then tap **Audio**.

2 Switch **Override** to On or Off.

3 Switch your **Low Alerts**, **High Alerts**, or **Status Alerts** to On or Off.

4 At the top of the screen, tap **Save**.

Note: *The media volume setting is used to adjust the volume of music, videos, and sounds in some games and other apps. The ringer volume is the setting that is used to adjust the volume of phone calls, text messages, and other notifications. When the audio override is active, your Guardian Connect alerts will always play at the maximum media volume of your device.* ***For iOS Users,*** *when the Guardian Connect app is open or running in the background, the side volume buttons on your mobile device will only control the media volume (not the ringer volume).*

Responding to Guardian Connect alerts

When you get a Guardian Connect alert, you will get a notification on your mobile device (like you do for other apps). Your mobile device may also sound or vibrate, depending on your device settings, as described in the *How the Guardian Connect app will alert you, on page 16*.

When you get a Guardian Connect alert, you must open the app to respond to the alert. Dismissing the notification only removes it from the list of notifications on your mobile device. If you dismiss the notification from your mobile device, but don't take any action, the alert may repeat.

When you open the app, you will see the alert on your screen. For system status alerts, you can clear the alert by clicking **OK**. For sensor glucose alerts, you can either swipe the alert up, which will snooze the alert for the snooze time period you set, or you can drag the alert down to set a new snooze time period.

Sensor graph

The sensor graph displays your current sensor glucose reading. It also allows you to view a history of sensor glucose readings and events you have entered.

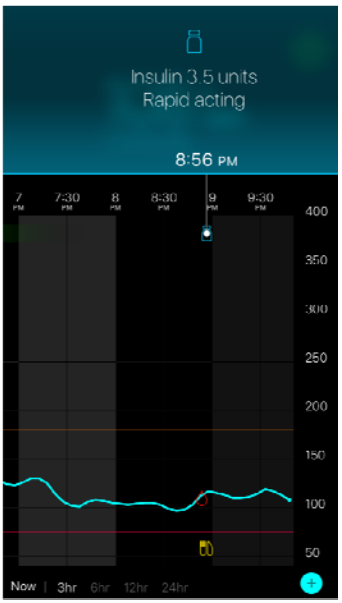
Navigating through the sensor glucose graph

- Swipe the center of the graph right and left to view historical data and to return to the current graph location.
- Pinch and stretch the center of the graph with your fingers to zoom in and out on the graph data.
- Tap the graph twice to view the graph at the selected 3-hour, 6-hour, 12-hour, and 24-hour zoom levels.

- Tap the horizontal time axis on the right side of the screen to center the selected time point on the graph. This allows you to view the details of the selected sensor glucose reading or event in an information box that appears above the graph. For details, see *Graph information boxes, on page 24*.
- Tap the vertical sensor glucose values axis twice on the bottom of the screen to return to the current sensor glucose reading displayed on the graph.

Graph information boxes

When you tap any point on the graph, the tapped time is marked by a vertical cursor on the graph, and a box with the information about the tapped event or sensor glucose reading appears above the graph. The following figure provides an example:



For sensor glucose readings; information boxes display the sensor glucose value, its date and time, and the rate of change arrows. This display is similar to the display of current sensor glucose value information on the Home screen. If there is no sensor glucose value for the selected time point, the information box displays the sensor status message for that point.

For event markers; information boxes display the details specific to each event type. For details, see *Events, on page 25*.

You can drag the cursor across the graph, skipping at five-minute intervals to pinpoint a specific sensor glucose value on the graph.

Information boxes appear for a few seconds and then close.

Events

Events help you capture information that may affect your glucose levels. You can use the Events screen on the app to enter and save certain types of events.

Event icon	Event name	Description
	Blood Glucose	Blood glucose meter readings. These can be used either to calibrate the system or simply to manage your diabetes without calibrating the system.
	Insulin	The type and amount of insulin you have delivered.
	Meal	The amount of carbohydrates you eat or drink.
	Exercise	The intensity and duration of your exercise routine.
	Other	This event can be used to enter any other information relevant to your diabetes management. For example, you can record information such as when you take medications, feel ill, or are under stress.

Note: *Make it a practice to enter events when they happen. If you make a mistake when entering an event, you can always delete the event and enter it again.*

Entering blood glucose meter readings

If you measure your blood glucose, for example, when you eat or when your blood glucose is rising or falling rapidly, you can enter these measurements into the app.

You also have the option of using the entered blood glucose meter reading for calibration purposes, if calibration is allowed at the time when you entered the event. To use the blood glucose meter reading for calibration, the value must be between

2.2 mmol/L and 22.2 mmol/L (40 mg/dL and 400 mg/dL). When calibrating your sensor from the Blood Glucose screen, you may enter your current blood glucose value, or a value that is up to ten minutes old.

Note: *You can enter a blood glucose value between 1.1 mmol/L and 33.3 mmol/L (20 mg/dL and 600 mg/dL) into the Events feature. However, for sensor calibration, you must enter a blood glucose value between 2.2 mmol/L and 22.2 mmol/L (40 mg/dL and 400 mg/dL).*

To enter a blood glucose meter reading into the Events feature:

1 Measure your blood glucose with a blood glucose meter.
2 Tap + at the bottom of the Home screen.
3 Tap on the Events screen.
4 If you need to change the date or time for the entry, tap **Time** and make the appropriate changes.
5 Using the number pad, enter the blood glucose meter reading.
6 Make sure the value displayed above the number pad is correct. If the value is incorrect, tap ⌫ to clear it and enter the correct value.
7 Tap **Save** at the top of the screen.
8 If you receive a message instructing you to calibrate now:
   • To update the sensor with the entered blood glucose meter reading, select **Calibrate sensor X.X mmol/L (XX mg/dL)**.
   • If you do not want to update the sensor with this reading, select **Save**.
   • If you need to make a correction or need to cancel, tap **Cancel**.

   The app returns to the Home screen, and appears on the graph at the selected time.

Entering insulin injection information

If you have delivered insulin using an insulin pump, insulin pen, or a syringe, you can use the app to record the amount of insulin you administered.

To enter the type and amount of insulin you have delivered:

1 Make a note of the amount and type of injection you have taken.
2 At the bottom of the Home screen, tap +.
3 On the Events screen, tap .
4 If you need to change the date or time for the entry, tap **Time** and make the appropriate changes.

5 Using the number pad, enter the insulin amount.
6 Make sure the value displayed above the number pad is correct. If not, tap ⌫ to clear it and enter the correct value.
7 Tap **Type** and select the type of insulin you have taken:
  • Rapid acting
  • Long acting
8 Tap **Done** at the top.
  The app returns to the Home screen, and  appears on the graph at the selected time.

Entering meal information
You can use the app to record information about the carbohydrates you eat or drink with meals or snacks.

To enter your meal information:

1 Determine the total amount (in grams) of carbohydrates in the meal, snack, or drink that you plan to consume.
2 At the bottom of the Home screen, tap +.
3 On the Events screen, tap  .
4 If you need to change the date or time for the entry, tap **Time** and make the appropriate changes.
5 Using the number pad, enter the amount of carbohydrates you have consumed.
6 Make sure the value displayed above the number pad is correct. If not, tap ⌫ to clear it and enter the correct value.
7 Tap **Done** at the top.
  The app returns to the Home screen, and  appears on the graph at the selected time.

Entering exercise information
You can use the app to enter information about your exercise regimen. Make sure you are consistent and enter the marker either before or after each time you exercise.

To enter your exercise information:

1 Make a note about how long you exercised (duration), and how difficult or easy the exercise was (intensity).
2 At the bottom of the Home screen, tap +.

3 On the Events screen, tap  .

4 If you need to change the date or time, tap **Time** and set the desired day and time for this exercise entry.

5 Tap **Duration** and set the time you have spent exercising.
The entered value appears above the number pad.

6 Tap **Intensity** and select Low, Medium, or High to indicate how intensely you have exercised.

7 Tap **Done** at the top.
The app returns to the Home screen, and  appears on the graph at the selected time.

Entering other events

You can use the app to enter events other than blood glucose measurements, insulin injections, carbohydrates consumed, and exercise information. For example, you can record information such as when you take medications, feel ill, or are under stress.

To enter other events:

1 At the bottom of the Home screen, tap  .

2 On the Events screen, tap  .

3 Using the text field, enter the relevant information.

4 Tap **Done** at the top.
The app returns to the Home screen, and  appears on the graph at the selected time.

Logbook

The Logbook screen displays a history of alerts and events that occurred on the selected day, with the most recent entries at the top of the list.

To view Logbook entries:

1 On the Home screen, tap  and select **Logbook**.

2 Do any of the following to view the desired information:
- Tap **Alerts** or **Events** to filter the list by the specific type. You also can select **All** to view the entire list.
- Swipe down and up on the list to view the entries.
- If you wish to delete an event entry, swipe it left and tap **Delete**.

Note: *You cannot delete alerts or calibration events.*

- Tap the desired entry to expand it and view the details. You can also use ^ and v arrows at the top of the expanded view to scroll through the list entries.

3 If you are viewing a specific event or alert on a details screen, tap **Logbook** > **Home** to return to the Home screen. If you are on the main Logbook screen, tap **Home** to return to the Home screen.

Syncing your data to CareLink Personal website

Guardian Connect allows Care Partners to remotely monitor your system data. It also allows you to send your Guardian Connect system data to the CareLink Personal website for daily uploads. This is done using an automatic feature called “Sync to CareLink”.

This automatic Sync to CareLink feature sends data displayed in the app to the CareLink Connect tab of the CareLink Personal website. This data is sent approximately every five minutes when an Internet connection to the website is available. This feature also automatically sends sensor history information used to create CareLink reports approximately every 24 hours. This information can be viewed by you or a care partner on the CareLink Personal website at carelink.minimed.eu. Please note that your mobile device must be connected to the Internet to send data to the website. If using a cellular connection, your provider's data rates may apply.

If the Sync to CareLink feature is turned off, the app will no longer send sensor information to the CareLink Personal website.

The **Upload Now** button allows you to immediately send sensor history data to the website for generating reports.

Sending a care partner access to CareLink Personal website

Now that your app is synced with CareLink Personal website, you can invite a family member, friend, or care partner to track your diabetes information on the website. Visit carelink.minimed.eu on your personal computer or tap the **Manage Care Partners** button within the app to access the CareLink Personal website. There you can create a username and temporary password for each care partner. Your care partners use this login information to access your diabetes information on the website.

Note: *Your care partners will use the CareLink login information you create for them to access the CareLink Personal website.*

For more information on the CareLink Connect tab, please refer to the *CareLink Connect User Guide* found in the CareLink Connect tab of CareLink Personal.

Disconnecting the transmitter from the sensor

Always refer to your transmitter user guide for instructions on disconnecting the transmitter from the sensor.

Reconnecting the existing sensor

If necessary, you can reconnect your transmitter to an existing sensor. Simply connect your transmitter to your sensor. When the app detects the connection, confirm that the sensor is an existing sensor. It may take a few seconds to establish a connection when connecting an existing sensor. If you reconnect an existing sensor, the sensor will go through another warm-up period before you can calibrate.

Troubleshooting

The following table contains troubleshooting information for the alerts.

Alerts

Problem	Likely Cause(s)	Resolution
Lost Communication alert	You are using another app, such as a game, that takes up a lot of the memory on your mobile device. This means that your Guardian Connect app stops running and can't communicate with the transmitter.	Open the app to ensure it is running properly. You should check periodically to see if the app is still running in the background in order to receive alerts and sensor glucose values.
	The app has been closed. Your Guardian Connect app has stopped running and can't communicate with the transmitter. Potential causes include using other apps and features (for example task manager apps), or by selecting Force Stop for Guardian Connect from an Android device Settings menu.	
	Your mobile device is out of range.	Make sure your mobile device and your transmitter are located within 6 meters (20 feet). It is helpful to keep your devices on the same side of your body to minimize any radio frequency (RF) interference.
	There is radio frequency (RF) interference from other devices.	Move away from any equipment that can cause radio frequency (RF) interference, such as cordless phones or routers.
	Your sensor disconnected from your transmitter.	Reconnect your sensor to your transmitter. Be careful not to pull the sensor out. Note: When you have reconnected your transmitter to your sensor, your sensor will go through a warm-up period which may last up to 2 hours.

Problem	Likely Cause(s)	Resolution
	Your sensor pulled out from your skin.	You cannot continue using this sensor. You must insert a new sensor to continue receiving sensor glucose values. For best results, recharge your transmitter before you start using a new sensor to ensure full transmitter battery life. If your transmitter is still not communicating with the app, contact your local Medtronic representative for assistance.
Transmitter Battery Empty alert	Your transmitter battery is empty and needs to be recharged.	See *Guardian Connect Transmitter* user guide for instructions on how to disconnect your transmitter from your sensor. For best results, recharge your transmitter between each use to ensure full transmitter battery life. Note: When reconnecting your transmitter to your sensor, your sensor will go through a warm-up period which may last up to 2 hours.
Mobile Device Battery Low alert	Your mobile device battery level is at 20% or lower, the battery needs to be recharged soon.	Recharge your mobile device battery to ensure that your Guardian Connect system can function and send alerts. Remember to always carry a charger for your mobile device to ensure continuous use of the Guardian Connect system.
Change Sensor alert	The current sensor is not working properly and needs to be replaced.	To continue receiving sensor glucose values, a new sensor must be used. See your *Guardian Connect transmitter*, user guide for instructions on how to change your sensor. For best results, recharge your transmitter between each use to ensure full transmitter battery life.
Sensor End of Life alert	The current sensor has reached the end of its life and will no longer display sensor glucose values on the Guardian Connect app.	To continue receiving sensor glucose values, a new sensor must be used. See *Guardian Connect transmitter* user guide for instructions on how to change your sensor. For best results, recharge your transmitter between each use to ensure full transmitter battery life.
Calibration Not Accepted alert	The last calibration value entered was not accepted by the Guardian Connect system.	The Guardian Connect system will request another calibration when it is ready. This can take up to 15 minutes from when the Calibration Not Accepted alert was received. Review your BG meter instructions for use on how to test your blood glucose. Enter this new value in the app for calibration. For details on how to calibrate your sensor, see *Calibrating guidelines*, in this user guide.

Problem	Likely Cause(s)	Resolution
Calibrate Now alert	A calibration is required by the system.	Review your BG meter instructions for guidance on how to test your blood glucose. Enter this new value in the app for calibration. For details on how to calibrate your sensor, see *Calibrating guidelines*, in this user guide.
Sensor Glucose Not Available alert	There is an error with the sensor.	No action is required. The sensor is trying to fix a problem. This may take up to 3 hours. Do not calibrate during this time. During this time, you should not rely on alerts from the system and you should use other methods to monitor your glucose values.
Transmitter Error alert	There is an error with the transmitter.	Disconnect the transmitter from the sensor and reconnect it. Upon reconnecting your transmitter to your sensor, your sensor will go through a warm-up period which may last up to 2 hours. If you are still experiencing issues, you may need to replace your transmitter. Contact HelpLine or your local Medtronic representative for more assistance.

Icon table

REF	Catalogue or model number
	Manufacturer
	Must refer to instruction manual before every use (appears blue on label).
CONF	Configuration or unique version identifier
Bluetooth® SMART	*Bluetooth* wireless technology or *Bluetooth* enabled
EC REP	Authorized representative in the European community

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