FreeStyle Libre 2
FLASH GLUCOSE MONITORING SYSTEM

For use with
FreeStyle Libre 2 Sensor and
FreeStyle Libre 2 Plus Sensor

FreeStyle Libre 2 app
A FreeStyle Libre product

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Interactive Tutorial
Welcome to Your System!

This Interactive Tutorial will help you learn how to set up and use your new System. Topics include:

- Product overview
- Reader setup & use
- App setup & use
- Sensor application & start up
- Product use & treatment decisions guide

Pay special attention to ⚠️ and 🔄 throughout this tutorial. Click the icons to view important considerations about using the System.

For more details, refer to the User’s Manual and the Quick Reference Guide.
Before you use your System, review all the product instructions and the Interactive Tutorial. The Quick Reference Guide and Interactive Tutorial give you quick access to important aspects and limitations of the System. The User's Manual includes all safety information and instructions for use. Refer to your phone instructions for use for how to use your phone.

Go to www.FreeStyleLibre.com to view the "Tips for Kids".

Talk to your health care professional about how you should use your Sensor glucose information to help manage your diabetes.

During the first 12 hours of Sensor wear the symbol will display, and you cannot use Sensor values to make treatment decisions during this time. Confirm Sensor glucose readings with a blood glucose test before making treatment decisions during the first 12 hours of Sensor wear when you see the symbol.
System Overview

The System has two main parts: a disposable Sensor and either a handheld Reader or mobile app. The Reader or mobile app is used to wirelessly scan the Sensor and get glucose readings. Before you start your Sensor, choose which device you want to use. When they’re in range, the Sensor automatically communicates with your device to give you alarms. These alarms are on by default. Remember that alarms you receive will not include your glucose reading, so you need to scan your Sensor to check your glucose.

IMPORTANT:

- Before you use your System, review all the product instructions and the Interactive Tutorial. The Quick Reference Guide and Interactive Tutorial give you quick access to important aspects and limitations of the System. The User’s Manual includes all safety information and instructions for use. Refer to your phone instructions for use for how to use your phone.
- Go to www.FreeStyleLibre.com to view the "Tips for Kids".
- Talk to your health care professional about how you should use your Sensor glucose information to help manage your diabetes.
- During the first 12 hours of Sensor wear the symbol will display, and you cannot use Sensor values to make treatment decisions during this time. Confirm Sensor glucose readings with a blood glucose test before making treatment decisions during the first 12 hours of Sensor wear when you see the symbol.
System Overview

The System has two main parts: a handheld Reader or mobile app. The Reader is used to wirelessly scan the Sensor. Before you start your Sensor, choose a Sensor from the list of available Sensors. When they're in range, the Sensor automatically communicates with your device to give you alarms. These alarms are on by default. Remember that alarms you receive will not include your glucose reading, so you need to scan your Sensor to check your glucose.

IMPORTANT:

- Before you use your System, review all the product instructions and the Interactive Tutorial. The Quick Reference Guide and Interactive Tutorial give you quick access to important aspects and limitations of the System. The User’s Manual includes all safety information and instructions for use. Refer to your phone instructions for use for how to use your phone.
- Go to www.FreeStyleLibre.com to view the “Tips for Kids”.

Note

The Reader and App only work with FreeStyle Libre 2 Sensors and FreeStyle Libre 2 Plus Sensors and cannot be used with other Sensors.
Getting to Know the Reader

The Reader gets glucose readings from a scan of your Sensor and can issue glucose alarms. The Reader can store approximately 90-days of glucose history and notes you enter about activities, such as taking insulin, eating food, or exercising.

The Reader is compact, lightweight, and easy to hold. It has a backlit color touchscreen and uses a rechargeable battery. The Reader is not waterproof.
Getting to Know FreeStyle Libre 2 app

The App performs some similar functions to the Reader. You can use it to start a Sensor, receive glucose alarms, get glucose readings from a scan of the Sensor, and store your glucose history and notes you enter.

FreeStyle Libre 2 app is available for download from the App Store (iPhone) or Google Play Store (Android Phone).

The App is not compatible with all phones. Before upgrading your phone or its operating system, check www.FreeStyleLibre.com.

- You must keep Critical Alerts (iPhone) / Do Not Disturb access permission (Android Phone), Bluetooth access (iPhone) / Nearby Devices permission (Android Phone), and Bluetooth on. If these settings are turned off, you will not be able to use the App, so you will not receive alarms or be able to check your glucose.
- You are responsible for properly securing and managing your phone. If you suspect an adverse cybersecurity event related to FreeStyle Libre 2, contact Customer Service.
- FreeStyle Libre 2 is not intended for use on a phone that has been altered or customized to remove, replace or circumvent the manufacturer’s approved configuration or use restriction, or that otherwise violates the manufacturer’s warranty.
Sensor Kit

The Sensor automatically measures and continuously stores glucose readings for 8 hours. The Sensor Kit has two parts: a Sensor Pack and a Sensor Applicator. Once you have assembled the Sensor, you will apply it to the back of your upper arm. It has a small, flexible tip that is inserted just under the skin. The Sensor can be worn for up to the wear duration specified by your Sensor insert.

IMPORTANT: The Sensor is water-resistant in up to 3 feet (1 meter) of water. Do not immerse longer than 30 minutes.

Sensor Pack
Used with the Sensor Applicator to prepare the Sensor for use.

Sensor Applicator
Applies the Sensor to the body.

Sensor
Measures your glucose while on your body (only visible after applied).
Sensor Kit

The Sensor automatically measures glucose in your blood stream. It continuously stores glucose readings at regular intervals. The Sensor Kit has two parts: a Sensor and a Sensor Applicator. Once you have applied the Sensor, you will apply it to the back of your upper arm. It has a small, flexible tip that is inserted just under the skin. The Sensor can be worn for up to the wear duration specified by your Sensor insert.

IMPORTANT: The Sensor is water-resistant in up to 3 feet (1 meter) of water. Do not immerse longer than 30 minutes.

Note

The Sensor Pack is sterile and non-pyrogenic unless opened or damaged. Using a non-sterile or pyrogenic Sensor might cause infection.
Reader Kit

The Reader Kit includes:
- FreeStyle Libre 2 Reader
- Yellow USB Cable
- Interactive Tutorial on USB
- Power Adapter

- User’s Manual
- Quick Start Guides for Reader & App
- Quick Reference Guide

USB Port
Used to charge the Reader and connect it to a computer.

Test Strip Port
Insert a test strip here to use the built-in meter.

Power Adapter
5V, 550mA or 0.55A

Touchscreen

Home Button
Turns the Reader on/off and takes you to the Home Screen from any other screen.

Yellow USB Cable

The Reader gets glucose readings from a scan of your Sensor and can issue glucose alarms. The Reader can store approximately 90-days of glucose history and notes you enter about activities, such as taking insulin, eating food, or exercising. This information can help you understand how these activities affect your glucose. The Reader also includes a built-in meter for blood glucose testing. To use the built-in meter, you need FreeStyle Precision Neo blood glucose test strips, control solution, a lancing device, and lancets. These items are not included in the Reader Kit and must be obtained separately from your FreeStyle Libre 2 System provider (pharmacy or mail order supplier).

IMPORTANT:

- If the Reader is dropped or subjected to impact, do a Reader Test to check that it is still working properly. See Perform a Reader Test section for instructions.
- If the Reader becomes too hot to hold, do NOT use and contact Customer Service about replacing your Reader, yellow USB cable, and power adapter. Customer Service is available at 1-855-632-8658 7 Days a Week from 8AM to 8PM Eastern Time; excluding holidays.
Sensor Glucose Readings

The Sensor Glucose Reading screen appears after you use your device to scan your Sensor. Your Reading includes your Current Glucose, a Glucose Trend Arrow indicating which way your glucose is going, and a graph of your current and stored glucose readings.

What you see on the Reader

- **Message**: Touch for more information.
- **Current Glucose**: Glucose from your latest scan.
- **Glucose Trend Arrow**: Direction your glucose is going.
- **Add Notes**: Touch to add notes to the glucose reading.
- **Rapid-Acting Insulin Note**:
- **Glucose Graph**: Graph of your current and stored glucose readings.
Sensor Glucose Readings

What you see in the App

- **Message**: Tap for more information.
- **Current Glucose**: Glucose from your latest scan.
- **Glucose Trend Arrow**: Direction your glucose is going.
- **Rapid-Acting Insulin Note**
- **Glucose Graph**: Graph of your current and stored glucose readings.
- **Add Notes**: Tap to add notes to your glucose reading.
Set the **Current Date** using the arrows on the touchscreen. Touch **next** to continue.

Set the **Current Time**. Touch **next** to continue.

The Reader now displays important information about key topics to help you use the System. Touch **next** after reviewing each screen. Touch **done** to go to the Home screen.
First Time Reader Setup

Complete the setup if you want to use the Reader with the Sensor or use the Reader’s built-in meter.

**How to do it:**

Press the Home Button to turn on the Reader.

If prompted, use the touchscreen to select your preferred language for the Reader. Touch **OK** to continue.

Set the **Current Date** using the arrows on the touchscreen. Touch **next** to continue.

Set the **Current Time**. Touch **next** to continue.

The Reader now displays important information about key topics to help you use the System. Touch **next** after reviewing each screen. Touch **done** to go to the Home screen.
First Time Reader

Complete the setup if you want to use this Reader or use the Reader’s built-in meter.

How to do it:

Press the Home Button to turn on the Reader.

If prompted, use the touchscreen to select your preferred language for the Reader. Touch OK to continue.

Set the Current Date using the arrows on the touchscreen. Touch next to continue.

Set the Current Time. Touch next to continue.

The Reader now displays important information about key topics to help you use the System. Touch next after reviewing each screen. Touch done to go to the Home screen.

Note

Use the pad of your finger. Do NOT use your fingernail or any other object on the screen.
First Time Reader

Complete the setup if you want to start using your Reader or use the Reader’s built-in meter.

How to do it:

Press the Home Button to turn on the Reader.

If prompted, use the touchscreen to select your preferred language for the Reader. Touch OK to continue.

Set the Current Date using the arrows on the touchscreen. Touch next to continue.

Set the Current Time. Touch next to continue.

The Reader now displays important information about key topics to help you use the System. Touch next after reviewing each screen. Touch done to go to the Home screen.

Caution

It is very important to set the time and date correctly. These values affect the Reader data and settings.
Reader Home Screen

The Reader Home Screen provides access to information about glucose readings and the System. Press the Home Button to go to the Home Screen from any other screen.

- **Battery Level**: Battery charge remaining
- **Time**: Current time set on the Reader.
- **Sensor Status**: Information about the current Sensor.
- **Check Glucose**: Touch to check your Sensor glucose.
- **Sound/Vibration setting**: Shows if Sensor is communicating with Reader.
- **Signal Status**: Shows if Sensor is communicating with Reader.
- **Settings**: Touch to access Alarms, Reminders, and other Reader settings.
- **Review History**: Touch to review information about past glucose readings.

**Note:** Sound/Vibration setting and Signal Status symbols only display when any alarm is on.
Setting Alarms

When in range of the Reader, your Sensor automatically communicates with the Reader to give you Low and High Glucose Alarms. These alarms are on by default.

IMPORTANT: Glucose alarms are an important safety feature for some people. For example, those that have impaired awareness of hypoglycemia or a history of severe hypoglycemia. Before you turn alarms off or change their settings, please consult your health care professional.

How to do it:

Touch the gear symbol on the Home Screen. Touch Alarms.

Touch Change Alarm Settings and select the alarm you want to set or turn off.

Touch done to save.

When you are finished setting your alarms, touch OK. The Alarms Settings screen now shows your current alarm settings. Touch OK to return to the main settings menu, or touch Change Alarm Settings to make additional updates.
Setting Alarms

When in range of the Reader, your Reader communicates with the Reader to send Alarms. These alarms are on by default.

IMPORTANT: Glucose alarms are not for everyone. For example, those with a history of hypoglycemia or a history of severe anxiety may turn alarms off or change their settings with their healthcare professional.

How to do it:

Touch the symbol on the Home Screen. Touch Alarms.

Touch Change Alarm Settings and select the alarm you want to set or turn off.

Touch done to save.

When you are finished setting your alarms, touch OK. The Alarms icon will change to .

Caution

- For you to receive alarms, they must be on and your Reader should be within 20 feet of you at all times. The transmission range is 20 feet unobstructed. If you are out of range, you may not receive glucose alarms.
- To prevent missed alarms, make sure the Reader has sufficient charge and that sound and/or vibration are turned on.
- If alarms are turned off, you will not get a notification when you have low glucose or high glucose.
Setting Reminders

Use Reminders to help you remember things like checking your glucose or taking insulin.

**How to do it:**

Touch the symbol on the Home Screen. Scroll down and touch Reminders.

Touch to select which Type of reminder to set: Check Glucose, Take Insulin, or Other.

Touch to select how often the Reminder needs to Repeat: Daily, Once, or Timer.

Select the Reminder Time, using the arrows on the touchscreen.

Touch save to save all Reminder settings.

From the Reminders screen, you can turn the reminder On/Off or add new reminders.

Touch done to return to the Home Screen.
Setting Reminders

Use Reminders to help you remember to check glucose or taking insulin.

How to do it:

Touch the gear symbol on the Home Screen. Scroll down and touch Reminders.

Touch to select which Type of reminder to set: Check Glucose, Take Insulin, or Other.

Touch to select how often the Reminder needs to Repeat: Daily, Once, or Timer.

Select the Reminder Time, using the arrows on the touchscreen.

Touch save to save all Reminder settings.

From the Reminders screen, you can turn the reminder On/Off or add new reminders.

Note

You can set reminders for a specific time (e.g. 8:30 am) or as a timer (e.g. 3 hours from the current time).
Changing the Reader Settings

Many System features can be customized from the Settings menu.

**How to do it:**

Touch the **Settings Symbol** 🌞 on the Home Screen.

Touch the arrows to scroll up or down. Touch the setting you want to change. See Setting Alarms section for information on setting alarms. See Setting Reminders section for information on setting reminders.

Touch **System Status** to view System information.

Touch **Reader Basics** to access important information about the Reader.
App

First Time App Setup

App Home Screen

App Alarms

Setting Alarms

Silent Mode

Setting Reminders

Changing App Settings

You need a LibreView account to use the App. Follow onscreen instructions to review legal information and create a new account or login to your existing account. You can continue using an existing Sensor with the App on a compatible phone that is logged into the same LibreView account.

Confirm your glucose unit of measure and tap NEXT.

Select how you count carbohydrates and tap NEXT.
First Time App Setup

How to do it:

Check that your smartphone is connected to a network (WiFi or cellular). Download FreeStyle Libre 2 from the App Store (if using iPhone) or the Google Play Store (if using Android Phone) and open the App.

Swipe left to view some helpful tips or tap GET STARTED NOW.

Confirm your country/region and tap NEXT.

You need a LibreView account to use the App. Follow onscreen instructions to review legal information and create a new account or login to your existing account. You can continue using an existing Sensor with the App on a compatible phone that is logged into the same LibreView account.

Confirm your glucose unit of measure and tap NEXT.

Select how you count carbohydrates and tap NEXT.

If using an Android Phone, select whether you want sound and vibration OR vibration only when you scan your Sensor. Tap NEXT.

The App now displays some important information. Accept the requested permissions. Tap NEXT after reviewing each screen.
First Time App Set-Up

How to do it:

Check that your smartphone is connected to cellular. Download FreeStyle Libre 2 from the App Store (if using iPhone) or the Google Play Store (if using Android Phone) and open the App.

Swipe left to view some helpful tips or tap GET STARTED NOW.

Confirm your country/region and tap NEXT.

You need a LibreView account to use the App. Follow onscreen instructions to review legal information and create a new account or login to your existing account. You can continue using an existing Sensor with the App on a compatible phone that is logged into the same LibreView account.

Confirm your glucose unit of measure and tap NEXT.

Select how you count carbohydrates and tap NEXT.

Note

The carbohydrate unit will be used in any food notes you enter in the App.
App Home Screen

The App Home Screen provides access to information about glucose readings and the App. To return to the Home Screen from another screen, go to the Main Menu and tap **Home**.
App Home Screen

Main Menu
Tap to access the Home Screen, Alarms, Logbook, other history options, and Connected Apps.

Overflow Menu
Tap to change App settings and view App information.

Glucose Graph
Graph of your stored Sensor glucose readings.

Alarms Unavailable
The symbol 🅞 displays if alarms are not available.

Glucose Information
Your Time in Target, information about your last scan, and average glucose for the last 24 hours.

High Glucose Alarm Level
App Alarms

FreeStyle Libre 2 app includes several types of alarms. These are all turned on by default and initially set to sound regardless of your phone’s sound or Do Not Disturb settings. If there’s a time where you need quiet, you have a couple of options.

You can choose to silence all your glucose and signal loss alarms for a set period by turning on Silent Mode (if available).

You can individually select to turn off the Override Do Not Disturb setting for the High Glucose, Low Glucose, or Signal Loss alarm if you want the alarm to follow your phone’s volume setting and be silent when you have Do Not Disturb enabled.

Optional Glucose Alarms: Low Glucose and High Glucose alarms are turned on by default, but can be turned off or customized to alarm at different glucose levels.

Urgent Low Glucose: Urgent Low Glucose Alarm will be delivered when your glucose goes below 55 mg/dL. This alarm cannot be turned off or customized but can be silenced with your other glucose alarms for a set period.

Optional Signal Loss Alarm: Signal Loss Alarm will be delivered when your Sensor isn’t communicating with the App. This alarm is turned on by default, but can be turned off or customized.

Fixed System Alarms: Replace Sensor and Sensor Ended Alarms will be delivered when your Sensor needs to be replaced. These alarms are a little different and will always sound regardless of your phone’s sound, Do Not Disturb, or Silent Mode settings. These alarms cannot be modified or turned off and indicate you are no longer receiving glucose readings or glucose alarms.

Please read all the information in this section before setting and using alarms.

IMPORTANT:
Scan your Sensor often to check your glucose. If you get an Urgent Low, Low, or High Glucose Alarm, you must obtain a glucose result to determine what to do next.

The Urgent Low, Low, and High Glucose Alarms should not be used exclusively to detect low or high glucose conditions. The glucose alarms should always be used along with your current glucose, glucose trend arrow, and glucose graph.

Low and High Glucose Alarm levels are different from your Target Glucose Range values. Low and High Glucose Alarms tell you when your glucose has passed the level you set in the alarm. Your Target Glucose Range is displayed on glucose graphs in the App and used to calculate your Time In Target.

Make sure your phone is near you. The Sensor itself will not issue alarms.

If the Sensor is not communicating with the App, you will not receive glucose alarms, and you may miss detecting low glucose or high glucose episodes. You will see the symbol on the screen when the Sensor is not communicating with the App. If the Signal Loss Alarm is on, you will be notified if your Sensor has not communicated with the App for 20 minutes.

If you enable Silent Mode in your alarm settings, you will not receive audible glucose and signal loss alarms even if the Override Do Not Disturb setting is on.

If you see the symbol, this means you are not getting alarms. Confirm your settings are as follows:

iPhone settings:
- Allow Notifications is ON
- Lock screen and Banner alerts are ON
- Notifications sounds are ON

Android Phone settings:
- Lock screen notifications are ON
- Alarms & reminders permission (if available) for the App is ON. This permission is required for Android 12 and above.
- Channel notifications or Pop-up notifications are ON
- Battery optimization is OFF
- Phone Media volume is ON

If alarms are unavailable because of any of these settings you will still be able to scan your Sensor to check your glucose. Touch the symbol for more information.
App Alarms

FreeStyle Libre 2 app includes settings that allow you to use the Urgent Low Glucose Alarm independently of your phone’s sound or Do Not Disturb options. You can choose to silence all your alarms or set them to sound regardless of your phone’s volume setting and be silent when you have Do Not Disturb enabled.

You can individually select to turn off the Override Do Not Disturb setting for the High Glucose, Low Glucose, or Signal Loss alarm if you want the alarm to follow your phone’s volume setting and be silent when you have Do Not Disturb enabled.

Optional Glucose Alarms: Low Glucose and High Glucose alarms are turned on by default, but can be turned off or customized to alarm at different glucose levels.

Urgent Low Glucose: Urgent Low Glucose Alarm will be delivered when your glucose goes below 55 mg/dL. This alarm cannot be turned off or customized but can be silenced with your other glucose alarms for a set period.

Optional Signal Loss Alarm: Signal Loss Alarm will be delivered when your Sensor isn’t communicating with the App. This alarm is turned on by default, but can be turned off or customized.

Fixed System Alarms: Replace Sensor and Sensor Ended Alarms will be delivered when your Sensor needs to be replaced. These alarms are a little different and will always sound regardless of your phone’s sound, Do Not Disturb, or Silent Mode settings. These alarms cannot be modified or turned off and indicate you are no longer receiving glucose readings or glucose alarms.

Please read all the information in this section before setting and using alarms.
App Alarms

FreeStyle Libre 2 app includes settings for the phone’s sound or Do Not Disturb options. You can choose to silence all your phone’s sound or Do Not Disturb alarms if you force closed the app.

You can individually select to turn off the Override Do Not Disturb setting for the High Glucose, Low Glucose, or Signal Loss alarm if you want the alarm to follow your phone’s volume setting and be silent when you have Do Not Disturb enabled.

Optional Glucose Alarms: Low Glucose and High Glucose alarms are turned on by default, but can be turned off or customized to alarm at different glucose levels.

Urgent Low Glucose: Urgent Low Glucose Alarm will be delivered when your glucose goes below 55 mg/dL. This alarm cannot be turned off or customized but can be silenced with your other glucose alarms for a set period.

Optional Signal Loss Alarm: Signal Loss Alarm will be delivered when your Sensor isn’t communicating with the App. This alarm is turned on by default, but can be turned off or customized.

Fixed System Alarms: Replace Sensor and Sensor Ended Alarms will be delivered when your Sensor needs to be replaced. These alarms are a little different and will always sound regardless of your phone’s sound, Do Not Disturb, or Silent Mode settings. These alarms cannot be modified or turned off and indicate you are no longer receiving glucose readings or glucose alarms.

Please read all the information in this section before setting and using alarms.
**CAUTION:**

- Disable your phone’s automatic operating system (OS) updates. Prior to updating your phone’s OS or updating the App, you should check the Mobile Device and OS Compatibility Guide to determine if the FreeStyle Libre 2 App is compatible with your OS and your phone. The OS Compatibility Guide is available in the Help Section of the App or on [www.FreeStyleLibre.com](http://www.FreeStyleLibre.com). You should check the OS Compatibility Guide periodically to make sure that your OS and your phone continue to be compatible with the App.

- In the event that an App or OS update causes your previously compatible phone to become incompatible, you may be notified ahead of time via e-mail or through the App. Make sure that your LibreView account has your current e-mail address to receive important information.

- After an OS update, open your App and check your device settings to make sure it’s working properly. Some OS features may impact your ability to receive alarms. For example, if you use an iPhone and the iOS Screen Time feature, add the FreeStyle Libre 2 app to the list of Always Allowed apps to ensure that you receive alarms or if you use an Android Phone do not use the Android Digital Wellbeing app.

- For you to receive alarms, your phone should be within 20 feet of you at all times. The transmission range is 20 feet unobstructed. If you are out of range, you may not receive alarms. If you want to receive the App’s optional alarms, make sure these are turned on.

- For iPhone, do not force close the App. The App must be running in the background to receive alarms. If you force close the App you will not receive alarms. Re-open the App to ensure you will receive alarms.

- If you restart your phone, open your App to make sure it’s working properly.

- Glucose alarms you receive do not include your glucose reading so you must scan your Sensor to check your glucose.

- The App will ask for phone permissions which are needed to receive alarms. Allow these permissions when requested.

- Check to make sure that you have the correct phone settings and permissions enabled. If your phone is not configured properly, you will not be able to use the App, so you will not receive alarms or be able to check your glucose.

**iPhones** are to be configured as follows:
- In the phone settings, keep Bluetooth ON
- In the phone settings for the App, allow the App to access Bluetooth
- In the phone settings for the App under Notifications, keep Allow Critical Alerts ON

**Android Phones** are to be configured as follows:
- In the phone settings, keep Bluetooth ON
- In the phone settings for the App, keep Do Not Disturb access permission ON
- In the phone settings for the App, keep Nearby Devices permission ON. This permission is required for Android 12 and above.

- If your phone is not configured correctly, the App will be in “Alerts Unavailable” state and you will not be able to check your glucose or receive any alarms, including the Urgent Low Glucose Alarm.

- To turn on Bluetooth, Critical Alerts, Do Not Disturb access permission, Bluetooth access, and Nearby Devices permission, follow the instructions in the App.

- For Android Users, you may need to add the Freestyle Libre 2 app to the list of the apps that will not be restricted or put to sleep.

- If you adjust the phone ringer volume (iPhone) or Media volume (Android Phone) to silent or use the phone do not disturb setting, keep ‘Overrode Do Not Disturb’ setting in the App ON for Low Glucose, High Glucose, and Signal Loss Alarms to ensure you receive audible alarms.

- You should disconnect headphones or speakers from your phone when you are not using them as you may not hear audio for alarms. If using headphones, keep them in your ears.

- If you are using peripheral devices connected to your phone, such as wireless headphones or a smartwatch, you may receive alarms on only one device or peripheral, not all.

- Keep your phone well charged and turned on.
Setting App Alarms

When in range of the App, your Sensor automatically communicates with the App to give you several types of alarms. Work with your healthcare professional to determine your alarm settings.

How to do it:

Go to the Main Menu and tap Alarms.

Select the alarm you want to set or turn off.

Tap the back button to return to the main alarm settings screen.
- Disable your phone’s automatic operating system (OS) updates. Prior to updating your phone’s OS or updating the App, you should check the Mobile Device and OS Compatibility Guide to determine if the FreeStyle Libre 2 App is compatible with your OS and your phone. The OS Compatibility Guide is available in the Help Section of the App or on www.FreeStyleLibre.com. You should check the OS Compatibility Guide periodically to make sure that your OS and your phone continue to be compatible with the App.

- In the event that an App or OS update causes your previously compatible phone to become incompatible, you may be notified ahead of time via e-mail or through the App. Make sure that your LibreView account has your current e-mail address to receive important information.

- After an OS update, open your App and check your device settings to make sure it’s working properly. Some OS features may impact your ability to receive alarms. For example, if you use an iPhone and the iOS Screen Time feature, add the FreeStyle Libre 2 app to the list of Always Allowed apps to ensure that you receive alarms or if you use an Android Phone do not use the Android Digital Wellbeing app.

- For you to receive alarms, your phone should be within 20 feet of you at all times. The transmission range is 20 feet unobstructed. If you are out of range, you may not receive alarms. If you want to receive the App’s optional alarms, make sure these are turned on.

- For iPhone, do not force close the App. The App must be running in the background to receive alarms. If you force close the App you will not receive alarms. Re-open the App to ensure you will receive alarms.

- If you restart your phone, open your App to make sure it's working properly.

- Glucose alarms you receive do not include your glucose reading so you must scan your Sensor to check your glucose.

- The App will ask for phone permissions which are needed to receive alarms. Allow these permissions when requested.

- Check to make sure that you have the correct phone settings and permissions enabled. If your phone is not configured properly, you will not be able to use the App, so you will not receive alarms or be able to check your glucose. Refer to the User manual to make sure you have the correct settings and permissions enabled on your phone.

- If your phone is not configured correctly, the App will be in “Alarms Unavailable” state and you will not be able to check your glucose or receive any alarms, including the Urgent Low Glucose Alarm.

- To turn on Bluetooth, Critical Alerts, Do Not Disturb access permission, Bluetooth access, and Nearby Devices permission, follow the instructions in the App.

- For Android Users, you may need to add the FreeStyle Libre 2 app to the list of apps that will not be restricted or put to sleep.

- If you adjust the phone ringer volume (iPhone) or Media volume (Android Phone) to silent or use the phone Do Not Disturb setting, keep ‘Override Do Not Disturb’ setting in the App ON for Low Glucose, High Glucose, and Signal Loss Alarms to ensure you receive audible alarms.

- You should disconnect headphones or speakers from your phone when you are not using them as you may not hear audio for alarms. If using headphones, keep them in your ears.

- If you are using peripheral devices connected to your phone, such as wireless headphones or a smartwatch, you may receive alarms on only one device or peripheral, not all.

- Keep your phone well charged and turned on.
Silent Mode (if available)

Silent Mode is off by default. If you want to turn it on, touch the slider.

Tap the time field to set the duration. Tap SAVE.

Tap TURN ON to confirm.

<table>
<thead>
<tr>
<th>Alarms</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Silent Mode</td>
<td>OFF</td>
</tr>
<tr>
<td>Urgent Low Glucose Alarm</td>
<td>On</td>
</tr>
<tr>
<td>Below 55 mg/dL</td>
<td></td>
</tr>
<tr>
<td>Low Glucose Alarm</td>
<td>On</td>
</tr>
<tr>
<td>Below 70 mg/dL</td>
<td></td>
</tr>
<tr>
<td>High Glucose Alarm</td>
<td>On</td>
</tr>
<tr>
<td>Above 240 mg/dL</td>
<td></td>
</tr>
<tr>
<td>Signal Loss Alarm</td>
<td>On</td>
</tr>
</tbody>
</table>
# Silent Mode (if available)

Silent Mode is off by default. If you want to turn it on, touch the slider.

Tap the time field to set the duration. Tap **SAVE**.

Tap **TURN ON** to confirm.

### ALARMS

<table>
<thead>
<tr>
<th>Alarm Type</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Urgent Low Glucose Alarm</td>
<td>On</td>
</tr>
<tr>
<td>Below 55 mg/dL</td>
<td></td>
</tr>
<tr>
<td>Low Glucose Alarm</td>
<td>On</td>
</tr>
<tr>
<td>Below 76 mg/dL</td>
<td></td>
</tr>
<tr>
<td>High Glucose Alarm</td>
<td>On</td>
</tr>
<tr>
<td>Above 246 mg/dL</td>
<td></td>
</tr>
<tr>
<td>Signal Loss Alarm</td>
<td>On</td>
</tr>
</tbody>
</table>

You can turn Silent Mode off at any time before the end of the set duration.
IMPORTANT

- When Silent Mode is enabled, you will not hear your glucose and signal loss alarms even if you’ve turned on 'Override Do Not Disturb'. You may still get the visual and vibratory notifications based on your phone’s settings.
Setting Reminders

Use Reminders to help you remember things like checking your glucose or taking insulin.

**How to do it:**

Go to the Main Menu and tap **Reminders**. Tap **ADD REMINDER**.

Name your reminder.

Tap the time fields to set the time for the reminder.

Tap **DONE**. You will now see your reminder on the list along with the time you will receive it.

(Example screen displayed for iPhone)
Setting Reminders

Use Reminders to help you remember to check your glucose or taking insulin.

**How to do it:**

1. Go to the Main Menu and tap **Reminders**.
2. Name your reminder.
3. Tap the time fields to set the time.
4. Tap **DONE**. You will now see your reminder on the screen with the time you will receive it.

**Note**

- If you want to receive a sound/vibration with your reminder, ensure that sound/vibration on your phone is turned on, sound is set at a level you can hear, and your phone’s Do Not Disturb feature is turned off. If Do Not Disturb is on, you will only see your reminder on the screen. If using iPhone, make sure notifications for the App are enabled so you receive reminders. For Android phones, ensure Alarms & reminders permission (if available) for the App is ON. This permission is required for Android 12 and above.
- If you would like the reminder to repeat, tap the slider to the right. You can also select which days you would like to receive the reminder.
Setting Reminders

Use Reminders to help you remember things like checking your glucose or taking insulin.

How to do it:

Go to the Main Menu and tap Remind.

Name your reminder.

Tap the time fields to set the time.

Tap DONE. You will now see your reminder on the list along with the time you will receive it.

Note

- There is one default reminder to help you remember to scan your Sensor. This Scan Sensor reminder can be changed or disabled but cannot be deleted.
- To turn off a reminder, tap the slider to the left.
- To delete a reminder, swipe the reminder and tap the symbol. The Scan Sensor reminder cannot be deleted.
- Your reminders will be received as notifications that you can swipe or tap to dismiss.
Changing App Settings

How to do it:

Go to the Main Menu to access the App settings.

Unit of Measure - View the glucose unit of measure used in the App.

Report Settings - Work with your health care professional to set your Target Glucose Range, which is displayed on glucose graphs in the App and used to calculate your Time In Target. The Target Glucose Range setting will not set glucose alarm levels. Tap SAVE when you are done.

Carbohydrate Units - Choose grams or servings for food notes that you enter. Tap SAVE when you are done.

Text to Speech - Turn on Text to Speech to have the glucose reading read aloud when you scan the Sensor. You will hear only your current glucose value and trend arrow direction. Additional information, such as the glucose graph and any message, is available on your My Glucose screen. Always review your My Glucose screen to get complete information. Remember that Text to Speech inherits the volume settings on your phone. If your phone volume is turned off, you will not hear the glucose reading read aloud. Tap SAVE when you are done.

Scan Sounds (Android Phone only) - Select whether you would like to hear a sound in addition to a vibration when you scan the Sensor. Remember that Scan Sounds inherit the volume settings on your phone. If your phone volume is turned off, you will not hear a scan sound. The Scan Sounds setting does not affect alarms. Tap SAVE when you are done.
<table>
<thead>
<tr>
<th>Sensor</th>
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<tbody>
<tr>
<td>Application Site Selection</td>
</tr>
<tr>
<td>Preparing the Application Site</td>
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<tr>
<td>Preparing the Sensor Applicator</td>
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<tr>
<td>Applying Your Sensor</td>
</tr>
<tr>
<td>Starting Your Sensor</td>
</tr>
<tr>
<td>Removing Your Sensor</td>
</tr>
</tbody>
</table>

discomfort or skin irritation, you should select a different site other than the one most recently used.
Application Site Selection

Apply Sensors only on the back of your upper arm. If placed in other areas, the Sensor may not function properly and could give inaccurate readings. Avoid areas with scars, moles, stretch marks, or lumps.

Select an area of skin that generally stays flat during your normal daily activities (no bending or folding). Choose a site that is at least 1 inch (2.5 cm) away from an insulin injection site. To prevent discomfort or skin irritation, you should select a different site other than the one most recently used.
Application Site Selection

Apply Sensor only on the back of your upper arm. If placed in other areas, the Sensor may not function properly and could give inaccurate readings. Avoid areas with scars, marks, or lumps.

Select an area of skin that generally stays dry during your normal daily activities (e.g., not near a folding). Choose a site that is at least 1 inch (2.5 cm) away from an insulin injection site to prevent discomfort or skin irritation. If necessary, select a different site other than the one recently used.

Caution

Intense exercise may cause your Sensor to loosen due to sweat or movement of the Sensor. If the Sensor is becoming loose or if the Sensor tip is coming out of your skin, you may get no readings or unreliable low readings. Remove and replace your Sensor if it starts to loosen and follow the instructions to select an appropriate application site. Do not attempt to reinsert the Sensor. Contact Customer Service if your Sensor becomes loose or falls off before the end of the wear duration. Customer Service is available at 1-855-632-8668 7 Days a Week from 8AM to 8PM Eastern Standard Time.

Only apply Sensor to the back of your upper arm.
Preparing the Application Site

Wash application site using a plain soap, dry, and then clean with an alcohol wipe. This will help remove any oily residue that may prevent the Sensor from sticking properly. Allow site to air dry before proceeding.

**IMPORTANT:** Before using your Sensor Applicator, make sure you have an alcohol wipe (70% isopropyl alcohol) on hand to prepare the application site. This is not included in the Sensor Kit.
Preparing the Application Site

Wash application site using a plain soap and water. Place the Alcohol Pad and then clean with an alcohol wipe. This helps remove any oily residue that may prevent the Sensor from sticking properly. Allow site to air dry before proceeding.

IMPORTANT: Before using your Sensor Applicator, make sure you have an alcohol wipe (70% isopropyl alcohol) on hand to prepare the application site. This is not included in the Sensor Kit.

Note

The area MUST be clean and dry, or the Sensor may not stay on for the full wear duration specified by your Sensor insert.
Preparing the Sensor Applicator

To ensure glucose readings are accurate, make certain the Sensor Pack and Sensor Applicator codes match.

**How to do it:**

Open the Sensor Pack by peeling the lid off completely.

Unscrew the cap from the Sensor Applicator and set the cap aside.

Place the Sensor Pack on a flat hard surface and line up the dark mark on the Sensor Applicator with the dark mark on the Sensor Pack. Press firmly down on the Sensor Applicator until it comes to a stop.

Lift the Sensor Applicator out of the Sensor Pack.

The Sensor Applicator is prepared and ready to apply the Sensor.
Preparing the Sensor Pack

To ensure glucose readings are accurate, make sure the Sensor Pack and Sensor Applicator are packaged as a set (separately from the Reader) and have the same Sensor code. Check that the Sensor codes match before using the Sensor Pack and Sensor Applicator. Do not use Sensor Packs and Sensor Applicators with different Sensor codes together as this will result in incorrect glucose readings.

How to do it:

Open the Sensor Pack by peeling the cap off completely.

Unscrew the cap from the Sensor Applicator and set the cap aside.

Place the Sensor Pack on a flat hard surface and line up the dark mark on the Sensor Applicator with the dark mark on the Sensor Pack. Press firmly down on the Sensor Applicator until it comes to a stop.

Lift the Sensor Applicator out of the Sensor Pack.

The Sensor Applicator is prepared and ready to use.
Preparing the Sensor

To ensure glucose readings are accurate, it is important to ensure the Sensor Pack and Sensor Applicator are compatible.

**How to do it:**

Open the Sensor Pack by peeling the lid off completely.

Unscrew the cap from the Sensor Applicator and set the cap aside.

Place the Sensor Pack on a flat hard surface and line up the dark mark on the Sensor Applicator with the dark mark on the Sensor Pack. Press firmly down on the Sensor Applicator until it comes to a stop.

Lift the Sensor Applicator out of the Sensor Pack.

The Sensor Applicator is prepared and ready to use.

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**Caution**

Do NOT use if the Sensor Pack or the Sensor Applicator seem to be damaged or already opened. Do NOT use if past expiration date.
Preparing the Sensor Applicator

To ensure glucose readings are accurate, make certain the Sensor Pack and Sensor Applicator match.

**Caution**

The Sensor Applicator now contains a needle. Do NOT touch inside the Sensor Applicator or put it back into the Sensor Pack.

**How to do it:**

Open the Sensor Pack by peeling the lid off completely.

Unscrew the cap from the Sensor Applicator and set the cap aside.

Place the Sensor Pack on a flat hard surface and line up the dark mark on the Sensor Applicator with the dark mark on the Sensor Pack. Press firmly down on the Sensor Applicator until it comes to a stop.

Lift the Sensor Applicator out of the Sensor Pack.

The Sensor Applicator is prepared and ready to use.
Applying Your Sensor

How to do it:

Place the Sensor Applicator over the prepared site and push down firmly to apply the Sensor to your body.

Gently pull the Sensor Applicator away from your body. The Sensor should now be attached to your skin.

Make sure the Sensor is secure after application. Put the cap back on the Sensor Applicator. Discard the used Sensor Pack and Sensor Applicator according to local regulations.
Applying Your Sensor

How to do it:

Place the Sensor Applicator over the prepared site and push down firmly to apply the Sensor to your body.

Gently pull the Sensor Applicator away from your body. The Sensor should now be attached to your skin.

Make sure the Sensor is secure after application. Put the cap back on the Sensor Applicator. Discard the used Sensor Pack and Sensor Applicator according to local regulations.

Caution

Do NOT push down on the Sensor Applicator until placed over prepared site to prevent unintended results or injury.
Applying Your Sensor

How to do it:

Place the Sensor Applicator over the site and push down firmly to apply to your body.

Gently pull the Sensor Applicator away from your body. The Sensor should now be attached to your skin.

Make sure the Sensor is secure after application. Put the cap back on the Sensor Applicator. Discard the used Sensor Pack and Sensor Applicator according to local regulations.

Note

Applying the Sensor may cause bruising or bleeding. If there is bleeding that does not stop, remove the Sensor, and contact your health care professional.
Starting Your Sensor

Before you start your Sensor, choose which device you want to use. If you start the Sensor with the Reader, you will be unable to use the App to check your glucose or receive alarms.

**How to do it with the Reader:**

Press the Home Button to turn on the Reader.

Touch **Start New Sensor**.

Hold the Reader near the Sensor to scan it. This starts your Sensor. If sounds are turned on, the Reader beeps when the Sensor has been successfully activated. The Sensor can be used to check your glucose after the start-up period.
Starting Your Sensor

Before you start your Sensor, choose the Sensor type you want to use. If you start the Sensor and then change your mind, you will be unable to use your glucose or receive alarms.

How to do it with the Reader:

Press the Home Button to turn on your Reader.

Touch Start New Sensor.

Hold the Reader near the Sensor to scan it. This starts your Sensor. If sounds are turned on, the Reader beeps when the Sensor has been successfully activated. The Sensor can be used to check your glucose after the start-up period.

Note:

- If the Sensor is not successfully scanned within 15 seconds, the Reader displays a prompt to scan the Sensor again. Touch OK to return to the Home Screen and touch Start New Sensor to scan your Sensor.
- Remember that FreeStyle Libre 2 app and Readers do not share data.
Starting Your Sensor

Before you start your Sensor, choose which device you want to use. If you start the Sensor with the App, you will be unable to use the Reader to check your glucose or receive alerts.

When performing an NFC (Near Field Communication) scan, you may need to adjust your scan distance based on what clothing you are wearing. In addition to proximity and orientation, other factors can affect NFC performance. For example, a bulky or metallic case can interfere with the NFC signal. Keep in mind that the ease of scanning a Sensor may vary between devices.

**How to do it with the App:**

**iPhone**

Tap the scan button (○).

Hold the top of your iPhone near the Sensor. Hold still until you hear a tone and/or feel a vibration. This completes the scan.

The Sensor can be used to check your glucose after the start-up period. While the Sensor is starting up, you can navigate away from the App.

**Android Phone**

Hold the back of your Android Phone near the Sensor. Hold still until you get two tones and/or vibrations. This completes the scan.

The Sensor can be used to check your glucose after the start-up period. While the Sensor is starting up, you can navigate away from the App.
Starting Your Sensor

Before you start your Sensor, choose a spot for your Sensor that is convenient for use. If you start the Sensor with the button pressed, you will need to turn on the Reader to check your glucose with the Reader.

When performing an NFC (Near Field Communication) scan, you may need to adjust your scan distance based on what clothing you are wearing. In addition to proximity and orientation, other factors can affect NFC performance. For example, a bulky or metallic case can interfere with the NFC signal. Keep in mind that the ease of scanning a Sensor may vary between devices.

How to do it with the App:

iPhone

- Tap the scan button ( )

- Hold the top of your iPhone near the Sensor. Hold still until you hear a tone and/or feel a vibration. This completes the scan.

The Sensor can be used to check your glucose after the start-up period. While the Sensor is starting up, you can navigate away from the Sensor. Tap the Reader to check your glucose.
Starting Your Sensor

Before you start your Sensor, choose a location to mount your Reader. You can mount it on your arm, or anywhere else, as long as it is within your reach and you can access it easily. If you start the Sensor with the Reader in your pocket, make sure you launch the Reader to check your glucose levels.

When performing an NFC (Near Field Communication) scan, you may need to adjust your scan distance depending on the thickness of your clothing. In addition to proximity and orientation, other factors can affect NFC performance. For example, a bulky or metallic case can interfere with the NFC signal. Keep in mind that the ease of scanning a Sensor may vary between devices.

**How to do it with the App:**

**iPhone**

Tap the scan button.

Hold the top of your iPhone near the Sensor. Hold still until you hear a tone and/or feel a vibration. This completes the scan.

The Sensor can be used to check your glucose after the start-up period. While the Sensor is starting up, you can navigate away from the Start-up screen to the sensor menu. You will still be able to scan the Sensor when it is ready.

---

**Note**

- If your Sensor is not successfully scanned, you may receive a Scan Error. Tap the scan button and scan again.
- Remember that FreeStyle Libre 2 app and Readers do not share data.
Tap the scan button ( ).

Hold the top of your iPhone near to the Sensor. If you hear a tone and/or feel a vibration, this indicates the sensor has been scanned.

The Sensor can be used to check your glucose levels after the startup period. While the Sensor is starting up, you can navigate away from the App.

**Note**

- If your Sensor is not successfully scanned, you may receive a Scan Error. Follow the instructions on the screen.
- Remember that FreeStyle Libre 2 app and Readers do not share data.

**Android Phone**

Hold the back of your Android Phone near the Sensor. Hold still until you get two tones and/or vibrations. This completes the scan.

The Sensor can be used to check your glucose after the startup period. While the Sensor is starting up, you can navigate away from the App.
Removing Your Sensor

The Sensor automatically stops working after the wear duration specified by your Sensor insert and must be replaced. Replace the Sensor if you notice any irritation or discomfort at the application site or if your device reports a problem with the Sensor currently in use. Taking action early can keep small problems from turning into larger ones.

How to do it:

Pull up the edge of the adhesive that keeps your Sensor attached to your skin. Slowly peel away from your skin in one motion.

Discard the used Sensor following directions from your health care professional. See the Maintenance and Disposal section of the User’s Manual.
Removing Your Sensor

The Sensor automatically stops working after the duration specified by your Sensor or until you replace it. Replace the Sensor if you experience irritation or discomfort at the application site or if your device reports a problem with the Sensor currently in use. Taking action early can keep small problems from turning into larger ones.

**How to do it:**

Pull up the edge of the adhesive that keeps your Sensor attached to your skin. Slowly peel away from your skin in one motion.

Discard the used Sensor following directions from your healthcare provider. See the Maintenance and Disposal section of the User’s Manual.

**Note**

Any remaining adhesive residue on the skin can be removed with warm soapy water or isopropyl alcohol.
Checking Glucose with a Sensor

**How to do it with the Reader:**

Press the Home Button to turn on the Reader or touch **Check Glucose** on the Home Screen.

Hold the Reader near the Sensor to scan it. The Sensor wirelessly sends glucose readings to the Reader. If sounds are turned on, the Reader beeps when the Sensor has been successfully scanned.

The Reader displays the current glucose reading along with a glucose graph and an arrow indicating the direction the glucose is going.
Checking Glucose with the Reader:

How to do it with the Reader:

Press the Home Button to turn on the Reader and select "Check Glucose on the Home Screen." Hold the Reader near the Sensor to scan it. The Reader displays the current glucose reading along with a glucose graph and an arrow indicating the direction the glucose is going.

Note:

If the Sensor is not successfully scanned within 15 seconds, the Reader displays a prompt to scan the Sensor again. Touch OK to return to the Home Screen and touch Check Glucose to scan your Sensor.
Checking Glucose with a Sensor

How to do it with the App:

**iPhone**

Tap the scan button 📺.

Hold the top of your iPhone near the Sensor. Hold still until you hear a tone and/or feel a vibration. This completes the scan.

The App displays the current glucose reading along with a glucose graph and an arrow indicating the direction the glucose is going.

**Android Phone**

Hold the back of your Android Phone near the Sensor. Hold still until you get two tones and/or vibrations. This completes the scan.

The Sensor can be used to check your glucose after the start-up period. While the Sensor is starting up, you can navigate away from the App.
Checking Glucose Level with the App:

**iPhone**

Tap the scan button.

Hold the top of your iPhone near the Sensor. Hold still until you hear a tone and/or feel a vibration. This completes the scan.

The App displays the current glucose reading along with a glucose graph and an arrow indicating the direction the glucose is going.

**Android Phone**

Hold the back of your Android Phone near the Sensor. Hold still until you hear a tone and/or feel a vibration. This completes the scan.

If your Sensor is not successfully scanned, you may receive a Scan Error. Tap the scan button and scan again.
Checking Glucose

How to do it with the App:

**iPhone**

Tap the scan button (○). Hold the top of your iPhone near the Sensor. You hear a tone and/or feel a vibration. This completes the scan.

The App displays the current glucose reading along with a glucose graph and an arrow indicating the direction the glucose is going.

**Android Phone**

Hold the back of your Android Phone near the Sensor. Hold the scan button (○). You hear a tone and feel a vibration. This completes the scan.

**Note**

- If your Sensor is not successfully scanned, you may receive a Scan Error. Follow the instructions on the screen.
- Remember that FreeStyle Libre 2 app and Readers do not share data.
Understanding Sensor Readings - Reader

**Note:**
- The graph displays glucose readings above 350 mg/dL at 350 mg/dL. For sequential readings above 350 mg/dL, a line is displayed at 350 mg/dL. You can get your Current Glucose number up to 400 mg/dL and Glucose Trend Arrow when you scan your Sensor.
- The ⌚ symbol may appear, indicating the Reader time was changed. Gaps in the graph may result or glucose readings may be hidden.
- All available glucose data is used to make your graph so you can expect to see some differences between the graph line and previous current glucose readings.

![Graph of glucose levels with labels for Message, Glucose Trend Arrow, Current Glucose, and Target Glucose Range]
### Understanding Sensor Readings - Reader

<table>
<thead>
<tr>
<th>Sensor Glucose Reading</th>
<th>Trend Arrows</th>
<th>Going High/Low Reading</th>
<th>High/Low Reading</th>
<th>HI/LO Reading</th>
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</thead>
<tbody>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The **Glucose Trend Arrow** gives an indication of the direction your glucose is going.

- **↑**: Glucose is rising quickly (more than 2 mg/dL per minute)
- **↗**: Glucose is rising (between 1 and 2 mg/dL per minute)
- **→**: Glucose is changing slowly (less than 1 mg/dL per minute)
- **↘**: Glucose is falling (between 1 and 2 mg/dL per minute)
- **↓**: Glucose is falling quickly (more than 2 mg/dL per minute)
If your glucose is projected to be higher than 240 mg/dL or lower than 70 mg/dL within 15 minutes, you will see a Glucose Going High or a Glucose Going Low message on the screen. You can touch the message button for more information and set a reminder to check your glucose.

**Note:**
- If you are not sure about a message or reading, contact your health care professional before you do anything.
- Messages you receive with your glucose readings are not related to your glucose alarm settings.

![Glucose Going High](image1)

![Glucose Going Low](image2)

![Reminder to Check Glucose](image3)

![Reminder to Check Glucose](image4)
If your glucose is higher than 240 mg/dL or lower than 70 mg/dL, you will see a \textcolor{red}{	ext{High Glucose}} or \textcolor{green}{	ext{Low Glucose}} message on the screen. You can touch the message button for more information and set a reminder to check your glucose.

**Note:**

- If you are not sure about a message or reading, contact your health care professional before you do anything.
- Messages you receive with your glucose readings are not related to your glucose alarm settings.
If LO appears on the Reader, your reading is lower than 40 mg/dL.

If HI appears on the Reader, your reading is higher than 400 mg/dL.

You can touch the message button for more information. Check your blood glucose on your finger with a test strip. If you get a second LO or HI result after doing a blood glucose test, contact your health care professional immediately.

**Note:**
- If you are not sure about a message or a reading, contact your health care professional before you do anything.
- Messages you receive with your glucose readings are not related to your glucose alarm settings.
**Understanding Sensor Readings - App**

<table>
<thead>
<tr>
<th>Sensor Glucose Reading</th>
<th>Trend Arrows</th>
<th>Going High/Low Reading</th>
<th>High/Low Reading</th>
<th>HI/LO Reading</th>
</tr>
</thead>
</table>

**Note:** The glucose graph in the App will scale to 400 mg/dL to accommodate glucose readings above 350 mg/dL.

**Note:** The symbol may appear, indicating the smartphone’s time was changed. Gaps in the graph may result or glucose readings may be hidden.

**Note:** Your current glucose value determines the background color on the My Glucose screen:

- **Orange** — High glucose (above 240 mg/dL)
- **Yellow** — Between the Target Glucose Range and high or low glucose level
- **Green** — Within the Target Glucose Range
- **Red** — Low glucose (below 70 mg/dL)
### Understanding Sensor Readings - App

<table>
<thead>
<tr>
<th>Sensor Glucose Reading</th>
<th>Trend Arrows</th>
<th>Going High/Low Reading</th>
<th>High/Low Reading</th>
<th>HI/LO Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Glucose Trend Arrow</strong> gives an indication of the direction your glucose is going.</td>
<td></td>
<td></td>
<td></td>
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<td>•</td>
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<td>•</td>
</tr>
<tr>
<td>Glucose is rising quickly (more than 2 mg/dL per minute)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glucose is rising (between 1 and 2 mg/dL per minute)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glucose is changing slowly (less than 1 mg/dL per minute)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glucose is falling (between 1 and 2 mg/dL per minute)</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Understanding Sensor Readings - App

Sensor Glucose Reading  Trend Arrows  Going High/Low Reading  High/Low Reading  HI/LO Reading

If your glucose is projected to be higher than 240 mg/dL or lower than 70 mg/dL within 15 minutes, you will see a GLUCOSE GOING HIGH or a GLUCOSE GOING LOW message on the screen. You can tap the symbol for more information and set a reminder to check your glucose.

Note:

- If you are not sure about a message or reading, contact your health care professional before you do anything.
- Messages you receive with your glucose readings are not related to your glucose alarm settings.
Understanding Sensor Readings - App

Sensor Glucose Reading  Trend Arrows  Going High/Low Reading

High/Low Reading  HI/LO Reading

If your glucose is higher than 240 mg/dL or lower than 70 mg/dL, you will see a HIGH GLUCOSE or LOW GLUCOSE message on the screen. You can tap the symbol for more information and set a reminder to check your glucose.

Note:
- If you are not sure about a message or reading, contact your health care professional before you do anything.
- Messages you receive with your glucose readings are not related to your glucose alarm settings.

LOW GLUCOSE
63 mg/dL

HIGH GLUCOSE
289 mg/dL
Understanding Sensor Readings - App

If **LO** appears, your reading is lower than 40 mg/dL.

If **HI** appears, your reading is higher than 400 mg/dL.

You can tap the ⚠ symbol for more information. Check your blood glucose on your finger with a test strip. If you get a second **LO** or **HI** result after doing a blood glucose test, contact your health care professional immediately.

**Note:**
- If you are not sure about a message or reading, contact your health care professional before you do anything.
- Messages you receive with your glucose readings are not related to your glucose alarm settings.
Using Glucose Alarms

When in range, your Sensor automatically communicates with your device to give you Alarms. These alarms are on by default. See Setting Alarms section for information on setting alarms.

How to do it with the Reader:

Low and High Glucose Alarms:
Touch **Dismiss Alarm & Check Glucose** or press the Home Button to dismiss the alarm and check your glucose.

Signal Loss Alarm:
Touch **No** to dismiss alarm. Touch **Yes** or press the Home Button to dismiss alarm and scan the Sensor.
Using Glucose Alerts

When in range, your Sensor automatically sends readings to your Reader. Alarms are on by default. See Setting Alarms section for information.

How to do it with the Reader:

Low and High Glucose Alarms:
Touch Dismiss Alarm & Check Glucose to dismiss the alarm and check your glucose.

Signal Loss Alarm:
Touch No to dismiss alarm. Touch Yes or press the Home Button to dismiss alarm and scan the Sensor.

Caution

- For you to receive alarms, they must be on and your Reader should be within 20 ft of you at all times. The transmission range is 20 ft unobstructed. If you are out of range, you may not receive glucose alarms.
- To prevent missed alarms, make sure the Reader has sufficient charge and that sound and/or vibration are turned on.
- Alarms you receive do not include your glucose reading so you must scan your Sensor to check your glucose.
Important

- Scan your Sensor often to check your glucose. If you get a Low or High Glucose Alarm, you must obtain a glucose result to determine what to do next.

- The Low and High Glucose Alarms should not be used exclusively to detect low or high glucose conditions. The glucose alarms should always be used along with your current glucose, glucose trend arrow, and glucose graph.

- Low and High Glucose Alarm levels are different from your Target Glucose Range values. Low and High Glucose Alarms tell you when your glucose has passed the level you set in the alarm. Your Target Glucose Range is displayed on glucose graphs on the Reader and used to calculate your Time In Target.

- Alarms must be kept on for you to receive them and you should ensure that your Reader is within 20 ft of you at all times. The Sensor itself will not issue alarms.

- If the Sensor is not communicating with the Reader, you will not receive glucose alarms, and you may miss detecting low glucose or high glucose episodes. You will see the symbol on the Home screen when the Sensor is not communicating with the Reader. Make sure the Signal Loss Alarm is on so you will be notified if your Sensor has not communicated with the Reader for 20 minutes.

- Make sure the Reader’s sound and/or vibration settings are on and your Reader is near you. The Home screen indicates the sound/vibration setting when any alarm is on.

- For all alarms except the App Stopped alarm: You will only receive one alarm per glucose episode. If you ignore an alarm, you will receive it again in 5 minutes if the condition still exists.
Using Glucose Alarms

How to do it with the App:

Glucose Alarms:
Swipe or tap to dismiss the alarm and check your glucose.

Signal Loss Alarm:
Swipe or tap to dismiss the alarm.

Urgent Low Glucose Alarm
Dismiss Alarm & Check Glucose.

Low Glucose Alarm
Dismiss Alarm & Check Glucose.

High Glucose Alarm
Dismiss Alarm & Check Glucose.

Signal Loss Alarm
Alarms are unavailable. Scan Sensor.

Example screens displayed for iPhone
Caution

- Disable your phone's automatic operating system (OS) updates. Prior to updating your phone’s OS or updating the App, you should check the Mobile Device and OS Compatibility Guide to determine if the FreeStyle Libre 2 App is compatible with your OS and your phone. The OS Compatibility Guide is available in the Help Section of the App or on www.FreeStyleLibre.com. You should check the OS Compatibility Guide periodically to make sure that your OS and your phone continue to be compatible with the App.

- In the event that an App or OS update causes your previously compatible phone to become incompatible, you may be notified ahead of time via e-mail or through the App. Make sure that your LibreView account has your current e-mail address to receive important information.

- After an OS update, open your App and check your device settings to make sure it's working properly. Some OS features may impact your ability to receive alarms. For example, if you use an iPhone and the iOS Screen Time feature, add the FreeStyle Libre 2 app to the list of Always Allowed apps to ensure that you receive alarms or if you use an Android Phone do not use the Android Digital Wellbeing app.

- For you to receive alarms, your phone should be within 20 feet of you at all times. The transmission range is 20 feet unobstructed. If you are out of range, you may not receive alarms. If you want to receive the App's optional alarms, make sure these are turned on.

- For iPhone, do not force close the App. The App must be running in the background to receive alarms. If you force close the App you will not receive alarms. Re-open the App to ensure you will receive alarms.

- If you restart your phone, open your App to make sure it's working properly.

- Glucose alarms you receive do not include your glucose reading so you must scan your Sensor to check your glucose.

- The App will ask for phone permissions which are needed to receive alarms. Allow these permissions when requested.

- If your phone is not configured properly, you will not be able to use the App, so you will not receive alarms or be able to check your glucose. Refer to the User manual to make sure you have the correct settings and permissions enabled on your phone.

- You should disconnect headphones or speakers from your phone when you are not using them as you may not hear audio for alarms. If using headphones, keep them in your ears.

- If you are using peripheral devices connected to your phone, such as wireless headphones or a smartwatch, you may receive alarms on only one device or peripheral, not all.

- Keep your phone well charged and turned on.
• Scan your Sensor often to check your glucose. If you get an Urgent Low, Low, or High Glucose Alarm, you must obtain a glucose result to determine what to do next.

• The Urgent Low, Low, and High Glucose Alarms should not be used exclusively to detect low or high glucose conditions. The glucose alarms should always be used along with your current glucose, glucose trend arrow, and glucose graph.

• Low and High Glucose Alarm levels are different from your Target Glucose Range values. Low and High Glucose Alarms tell you when your glucose has passed the level you set in the alarm. Your Target Glucose Range is displayed on glucose graphs in the App and used to calculate your Time In Target.

• Make sure your phone is near you. The Sensor itself will not issue alarms.

• If the Sensor is not communicating with the App, you will not receive glucose alarms, and you may miss detecting low glucose or high glucose episodes. You will see the 📤 symbol on the screen when the Sensor is not communicating with the App. If the Signal Loss Alarm is on, you will be notified if your Sensor has not communicated with the App for 20 minutes.

• If you see the 📤 symbol, this means you are not getting alarms.

• iPhone settings:
  - Allow Notifications is ON
  - Lock screen and Banners alerts are ON
  - Notifications sounds are ON

• Android Phone settings:
  - Lock screen notifications are ON
  - Alarms and Reminders permission (if available) for the App is ON. This permission is required for Android 12 and above.
  - Channel notifications or Pop-up notifications are ON
  - Battery optimization is OFF
  - Phone Media volume is ON

• If alarms are unavailable because of any of these settings you will still be able to check your glucose. Touch the 📤 symbol for more information.
Treatment Decisions Guide

Using Sensor Glucose Readings for treatment decisions
**WARNING:** The System can replace blood glucose testing except in the below situations. These are the times when you need to do a blood glucose test before deciding what to do or what treatment decision to make as Sensor readings may not accurately reflect blood glucose levels.

*Do a blood glucose test* if you think your readings are not correct or do not match how you feel. Do not ignore symptoms that may be due to low or high glucose.

*Do a blood glucose test* when you see the symbol during the first 12 hours of wearing a Sensor or the Sensor glucose reading does not include a Current Glucose number.
Treatment Decisions Guide - Example Scenarios

When You Wake-Up

What you see: When you wake-up on your first day of wearing a Sensor, your current glucose is 110 mg/dL. There is also the symbol on the screen.

What it means:
During the first 12 hours of Sensor wear the symbol will display, and you cannot use Sensor values to make treatment decisions during this time. Confirm Sensor glucose readings with a blood glucose test before making treatment decisions during the first 12 hours of Sensor wear when you see the symbol.
What you see: Before breakfast, your current glucose is 115 mg/dL. The graph shows that your glucose is going up and so does the trend arrow ↑.

What it means: Consider what might be causing your glucose to go up and what you might do to prevent a high glucose.

For example:
- How much insulin should you take before your meal?
- Since you see ↑, should you consider taking a little more insulin?
When you wake-up, before breakfast, lunch, in the afternoon, after exercising, before dinner.

**What you see:**
When you checked your glucose before lunch, it was 90 mg/dL and rising. Before eating lunch, you took enough insulin to cover the meal and a little more since your trend arrow was ↗.

**Before Lunch**

**Reader**
![Glucose Reading]

**App**

90 minutes after lunch, your current glucose is 225 mg/dL. The graph shows that your glucose is still going up, and so does the trend arrow ↗.

**After Lunch**

**Reader**
![Glucose Reading]

**App**

**What it means:**
Don’t take a correction dose within 2 hours of your meal dose. This may result in "insulin stacking" and low glucose. Consider what might be causing your glucose to go up and what you might do to prevent a high glucose.

**For example:**
- Has the insulin you took for your meal reached its full effect?
- Scan your Sensor again later.

---

**Freestyle Libre 2**
Flash Glucose Monitoring System
What you see: Between meals, your current glucose is 72 mg/dL. The Glucose Going Low message tells you that your glucose is projected to be low within 15 minutes.

What it means: Think about what might be causing your glucose to go low. Consider eating a snack to stay within target. Avoid taking insulin as this can cause low glucose.
What you see: After exercising, you are feeling shaky, sweaty, and dizzy - symptoms you generally get when you have low glucose. But, your current glucose is 204 mg/dL.

What it means: Anytime you get a reading that doesn’t match how you feel, do a blood glucose test.
What you see: Before dinner, your current glucose is 134 mg/dL. The graph shows that your glucose is going down and so does the trend arrow.

What it means: Consider what might be causing your glucose to go down and what you might do to prevent a low glucose.

For example:
- How much insulin should you take before your meal?
- Since you see a trend down, should you consider taking a little less insulin?
Treatment Decisions Guide - Knowledge Check

1. What would you do if you scanned your Sensor on the first day of wear and saw this symbol with your reading?

- Do not treat based on this reading - check my blood glucose with a test strip
- Make a treatment decision

Incorrect. Don’t make treatment decisions based on a Sensor glucose reading that includes this symbol.

Please click Previous and try again.
Treatment Decisions Guide - Knowledge Check

1. What would you do if you scanned your Sensor on the first day of wear and saw this symbol with your reading?

- [ ] Do not treat based on this reading - check my blood glucose with a test strip
- [ ] Make a treatment decision

Correct! When you see the symbol during the first 12 hours of wearing a Sensor, this is a reminder that your body might still be getting used to the new Sensor. Confirm Sensor glucose readings with a blood glucose test before making treatment decisions.
2. What would you do if you are getting ready to eat lunch, you scan your Sensor and you get a reading that your glucose level is above your target range and changing slowly.

- Do not treat based on this reading - check my blood glucose with a test strip
- Make a treatment decision, such as take insulin

Incorrect. You could check your blood glucose with a test strip, but you don’t have to, unless you have symptoms that don’t match your reading.

Please click Previous and try again.
2. What would you do if you are getting ready to eat lunch, you scan your Sensor and you get a reading that your glucose level is above your target range and changing slowly →.

- Do not treat based on this reading - check my blood glucose with a test strip

- Make a treatment decision, such as take insulin

Correct! Based on your reading and what you are about to eat, consider how much insulin you should take.
Treatment Decisions Guide - Knowledge Check

3. What would you do if your body was telling you that your glucose was low, but when you scanned your Sensor your reading was high?

- Do not treat based on this reading - check my blood glucose with a test strip

- Do something to lower glucose, such as take insulin

Incorrect. If you feel low, trust your symptoms. Check your blood glucose with a test strip and treat accordingly. The Sensor may be inaccurate sometimes.

Please click Previous and try again.
3. What would you do if your body was telling you that your glucose was low, but when you scanned your Sensor your reading was high?

- [x] Do not treat based on this reading - check my blood glucose with a test strip
- [ ] Do something to lower glucose, such as take insulin

You're right! Anytime you get a reading that doesn't match how you feel, check your blood glucose with a test strip before you make a treatment decision.
Treatment Decisions Guide - Knowledge Check

4. "Insulin stacking" is when you take two or more doses of rapid-acting insulin too close together. Which of the following scenarios would avoid "insulin stacking"?

- [x] You took your full breakfast insulin dose and ate breakfast. 75 minutes later your glucose was high, so you took a correction insulin dose.

- [ ] You took your full breakfast insulin dose and ate breakfast. 75 minutes later your glucose was high. You know insulin takes some time to work, so you decided to do nothing and scan again later.

Incorrect. Taking multiple doses of rapid-acting insulin too close together may lead to "insulin stacking" and low glucose. Don’t take a correction dose within 2 hours of your meal dose.

Please click Previous and try again.
Treatment Decisions Guide - Knowledge Check

4. "Insulin stacking" is when you take two or more doses of rapid-acting insulin too close together. Which of the following scenarios would avoid "insulin stacking"?

- You took your full breakfast insulin dose and ate breakfast. 75 minutes later your glucose was high, so you took a correction insulin dose.

- You took your full breakfast insulin dose and ate breakfast. 75 minutes later your glucose was high. You know insulin takes some time to work, so you decided to do nothing and scan again later.

That's correct! Since you did not take multiple doses of rapid-acting insulin too close together, you avoided "insulin stacking" and low glucose. Don't take a correction dose within 2 hours of your meal dose.
5. What would you do if you scanned your Sensor between meals and saw that your glucose was going low?

○ Decide to take some insulin

○ Consider eating a snack to stay within target

Incorrect. Taking insulin between meals when your glucose is going low can cause low glucose.

Please click Previous and try again.
5. What would you do if you scanned your Sensor between meals and saw that your glucose was going low?

- Decide to take some insulin
- Consider eating a snack to stay within target

Correct! When you see that your glucose is going low, think about what might be causing it to go down. Consider eating a snack to stay within target. Avoid taking insulin as this can cause low glucose.
Treatment Decisions Guide - Knowledge Check

Congratulations - you have finished the knowledge assessment. Click Next to learn more about the System.
Checking Glucose with a Test Strip

You can use the Reader’s built-in meter to check your blood glucose, whether you are wearing a Sensor or not. Be sure to read the test strip instructions for use prior to using the built-in meter.

How to do it:

Wash your hands with warm soapy water for accurate results. Thoroughly dry your hands. To warm the site, apply a warm dry pad or rub vigorously for a few seconds.

Check the FreeStyle Precision Neo test strip expiration date. Do not use expired test strips as they may give inaccurate results.

Open the foil test strip packet at the notch and tear down to remove the test strip. Use the test strip immediately after removing from the foil packet.

Insert the test strip with the three black lines at the end facing up. Push the strip in until it stops.
Caution

Test on your fingers in accordance with the Intended Use.

Intended Use

The FreeStyle Libre 2 Reader’s built-in meter is for use outside the body only (in vitro diagnostic use) in the quantitative measurement of glucose in fresh whole blood for self testing by lay users from the fingers. It is not intended to be used for testing neonatal blood samples or for the diagnosis or screening of diabetes.

The FreeStyle Libre 2 Reader’s built-in meter is indicated for the home (lay) user in the management of patients with diabetes. It is intended to be used by a single person and should not be shared.

The FreeStyle Precision Neo Blood Glucose Test Strips are for use with the FreeStyle Libre 2 Reader’s built-in meter to quantitatively measure glucose (sugar) in fresh capillary whole blood samples drawn from the fingertips.
Checking Glucose

How to do it:

Wash your hands with warm soapy water for accurate results. Thoroughly dry your hands. To warm the site, apply a warm dry pad or rub vigorously for a few seconds.

Check the FreeStyle Precision Neo test strip expiration date. Do not use expired test strips as they may give inaccurate results.

Open the foil test strip packet at the notch and tear down to remove the test strip. Use the test strip immediately after removing from the foil packet.

Insert the test strip with the three black lines at the end facing up. Push the strip in until it stops.

Note

Do not use lotion or cream on the test site. Avoid moles, veins, bones, and tendons. Bruising may occur at the test site. If you get a bruise, consider selecting another site.
Checking Glucose

You can use the Reader’s built-in meter to check your glucose levels. Be sure to read the test strip instructions for use prior to use.

How to do it:

Wash your hands with warm soapy water for accurate results. Thoroughly dry your hands. To warm the site, apply a warm dry pad or rub vigorously for a few seconds.

Check the FreeStyle Precision Neo test strip expiration date. Do not use expired test strips as they may give inaccurate results.

Open the foil test strip packet at the notch and tear down to remove the test strip. Use the test strip immediately after removing from the foil packet.

Insert the test strip with the three black lines at the end facing up. Push the strip in until it stops.

Note

The Reader’s built-in meter turns off after 2 minutes of inactivity.
Checking Glucose with a Test Strip

How to do it:

Use your lancing device to obtain a blood drop and apply blood to the white area at the end of the test strip. Refer to your lancing device instructions for use if you need help using your lancing device. If sounds are turned on, the Reader beeps once to let you know you have applied enough blood.

You will see a butterfly on the screen while you wait for your result. Do not remove the test strip while the butterfly is on the screen. If sounds are turned on, the Reader beeps once when your result is ready.

If the butterfly does not appear, you may not have applied enough blood to the test strip. Apply a second drop of blood to the test strip within 5 seconds of the first drop. If the butterfly still does not appear or if more than 5 seconds have passed, discard the test strip. Turn off the Reader and repeat the steps in this section with a new test strip.
Caution

Test on your fingers in accordance with the Intended Use.

Intended Use

The FreeStyle Libre 2 Reader’s built-in meter is for use outside the body only (in vitro diagnostic use) in the quantitative measurement of glucose in fresh whole blood for self-testing by lay users from the fingers. It is not intended to be used for testing neonatal blood samples or for the diagnosis or screening of diabetes.

The FreeStyle Libre 2 Reader’s built-in meter is indicated for the home (lay) user in the management of patients with diabetes. It is intended to be used by a single person and should not be shared.

The FreeStyle Precision Neo Blood Glucose Test Strips are for use with the FreeStyle Libre 2 Reader’s built-in meter to quantitatively measure glucose (sugar) in fresh capillary whole blood samples drawn from the fingertips.
Checking Glucose Levels

How to do it:

Use your lancing device to obtain a blood drop. Hold the lancet to the white area at the end of the device instructions for use if you are using a manual device. If sounds are turned on, the Reader will beep to know you have applied enough blood.

You will see a butterfly on the screen. The Reader will display the result. Do not remove the test strip from the Reader until the result is displayed on the screen. If sounds are turned on, the Reader beeps once when your result is ready.

If the butterfly does not appear, you may not have applied enough blood to the test strip. Apply a second drop of blood to the test strip within 5 seconds of the first drop. If the butterfly still does not appear or if more than 5 seconds have passed, discard the test strip. Turn off the Reader and repeat the steps in this section with a new test strip.

Note

- E-3 means the blood drop is too small, or incorrect test procedure, or there may be a problem with the test strip.
- E-4 means the blood glucose level may be too high to be read by the System or there may be a problem with the test strip.

See Troubleshooting section of the Reader Kit User’s Manual for more information.
Checking Glucose with a Test Strip

How to do it:

After reviewing your result, remove and discard the used test strip according to local regulations.

Blood glucose results are marked on the results screen and in the Reader’s Logbook with the symbol.
Checking Glucose

How to do it:

After reviewing your result, remove the used test strip according to the instructions.

Blood glucose results are marked on the screen and in the Reader’s Logbook symbol.

Caution

Test on your fingers in accordance with the Intended Use.

Intended Use

The FreeStyle Libre 2 Reader’s built-in meter is for use outside the body only (in vitro diagnostic use) in the quantitative measurement of glucose in fresh whole blood for self testing by lay users from the fingers. It is not intended to be used for testing neonatal blood samples or for the diagnosis or screening of diabetes.

The FreeStyle Libre 2 Reader’s built-in meter is indicated for the home (lay) user in the management of patients with diabetes. It is intended to be used by a single person and should not be shared.

The FreeStyle Precision Neo Blood Glucose Test Strips are for use with the FreeStyle Libre 2 Reader’s built-in meter to quantitatively measure glucose (sugar) in fresh capillary whole blood samples drawn from the fingertips.
Importantly:

- Use only FreeStyle Precision Neo test strips. Other test strips may produce inaccurate results.
- Read all the instructions in this section. Failure to follow instructions may cause incorrect blood glucose results. Practice the testing procedures before using the Reader’s built-in meter.
- Read the test strip instructions for use before performing your first blood glucose test as they contain important information. They also let you know how to store and handle the test strips and give you information about sample types.
- The Reader’s built-in meter is not for use on people who are dehydrated, hypotensive, in shock, or for individuals in hyperglycemic-hyperosmolar state, with or without ketosis.
- The Reader’s built-in meter is not for use on neonates, in critically-ill patients, or for diagnosis or screening of diabetes.
- Follow your healthcare professional’s advice when testing blood glucose levels.
- Severe dehydration (excessive water loss) may cause false low test strip results. If you believe you are suffering from dehydration, consult your healthcare professional right away.
- Inaccurate test strip results may occur in severely hypotensive individuals or patients in shock.
- Inaccurate test strip results may occur for individuals experiencing a hyperglycemic-hyperosmolar state, with or without ketosis.
- Observe caution when using around children. Small parts may constitute a choking hazard.
- You should clean and disinfect the Reader once per week. The Reader should also be cleaned and disinfected prior to being handled by any person providing testing assistance to the user. Refer to the Maintenance and Disposal section of the Reader Kit User’s manual for instructions.
- The Reader is for use by a single person. It must not be used on more than one person including other family members due to the risk of spreading infection. All parts of the Reader are considered biohazardous and can potentially transmit infectious diseases, even after performing the cleaning and disinfection procedure.
- Use the Reader’s built-in meter within the test strip operating temperature range (59°F - 104°F) or you will see Error Message E-1.
- Use a test strip immediately after removing from its foil packet.
- Only use a test strip once.
- Do not put urine on the test strip.
- Do not use expired test strips as they may cause inaccurate results.
- Do not use at altitudes higher than 10,000 feet above sea level.
- Do not use a wet, bent, scratched, or damaged test strip.
- Do not use the test strip if the foil packet has a hole or is torn.
- Results from the built-in meter are shown only in your Reader’s Logbook and not in other history options.
- Refer to your lancing device instructions for use for how to use your lancing device.
- This device is not intended for use with multiple patients in healthcare or assisted-use settings such as hospitals, physician offices, or long-term care facilities because it has not been cleared by FDA for use in these settings, including for routine assisted testing or as part of glycemic control procedures. Use of this device on multiple patients may lead to transmission of Human Immunodeficiency Virus (HIV), Hepatitis C Virus (HCV), Hepatitis B Virus (HBV), or other bloodborne pathogens.
- After performing a blood glucose test, wash your hands with soap and water and thoroughly dry them.
- The built-in meter displays results from 20 - 500 mg/dL. Low or high blood glucose results can indicate a potentially serious medical condition.
Checking Blood Glucose

How to do it

After reviewing your result, remove and discard the used test strip according to local regulations.

Blood glucose results are marked on the results screen and in the Reader’s Logbook with the symbol.

Note

If you are using the App, you can enter your blood glucose result into the App’s Logbook.
Control Solution Testing

You should do a control solution test when you are not sure of your test strip results and want to check that your Reader’s built-in meter and test strips are working properly.

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>From the Home Screen, touch the Settings symbol 🛡️ . Scroll down using the arrow and touch Control Solution Test.</td>
</tr>
<tr>
<td>2</td>
<td>Check the test strip expiration date. Open the foil test strip packet at the notch and tear down to remove the test strip.</td>
</tr>
<tr>
<td>3</td>
<td>Insert the test strip with the three black lines facing up. Push the strip until it stops.</td>
</tr>
<tr>
<td>4</td>
<td>Shake the control solution bottle to mix the solution. Apply a drop of control solution to the white area at the end of the test strip. If sounds are turned on, the Reader beeps once to let you know that you have applied enough control solution. You will see a butterfly on the screen while you wait for the result. Do not remove the test strip while the butterfly is on the screen. If sounds are turned on, the Reader beeps once when the result is ready.</td>
</tr>
<tr>
<td>5</td>
<td>If the butterfly does not appear, you may not have applied enough control solution to the test strip. Apply a second drop of control solution to the test strip within 5 seconds of the first drop. If the butterfly still does not appear or if more than 5 seconds have passed, discard the test strip. Turn off the Reader and repeat the steps in this section with a new test strip.</td>
</tr>
</tbody>
</table>

Control Solution Results

Compare the control solution result to the range printed on the test strip instructions for use. The result on your screen should be in this range.

Control solution results are marked on the results screen and in the Logbook with a symbol.

100 mg/dL

Example Screen Only
IMPORTANT

- Control solution results should fall within the control solution range printed on the test strip instructions for use.
- Do NOT use control solution past the expiration date. Discard control solution 3 months after opening or on the expiration date printed on the bottle, whichever comes first. (Example: open April 15, discard July 15; write the discard date on the side of the bottle.)
- The control solution range is a target range for control solution only, not for your blood glucose results.
- The control solution test does not reflect your blood glucose level.
- Use only MediSense (low, medium or high) Glucose and Ketone Control Solution with the Reader's built-in meter.
- Check that the LOT number printed on the test strip foil packet and instructions for use match.
- Replace the cap securely on the bottle immediately after use.
- Do NOT add water or other liquid to the control solution.
- Contact your FreeStyle Libre 2 System provider (pharmacy or mail order supplier) for how to obtain control solution.
Open the foil test strip packet at the notch and tear down to remove the test strip.

Note

The Reader’s built-in meter turns off after 2 minutes of inactivity.

Apply Control Solution

Shake the control solution bottle to mix the solution. Apply a drop of control solution to the white area at the end of the test strip.

If sounds are turned on, the Reader beeps once to let you know that you have applied enough control solution.

You will see a butterfly on the screen while you wait for the result. Do not remove the test strip while the butterfly is on the screen. If sounds are turned on, the Reader beeps once when the result is ready.

If the butterfly does not appear, you may not have applied enough control solution to the test strip. Apply a second drop of control solution to the test strip within 5 seconds of the first drop. If the butterfly still does not appear or if more than 5 seconds have passed, discard the test strip. Turn off the Reader and repeat the steps in this section with a new test strip.
Control Solution Results

Compare the control solution results printed on the test strip instructions for use. Stop using the built-in meter if the control solution results are repeatedly outside of the printed range. Contact Customer Service.

Customer Service is available at 1-855-632-8658 7 Days a Week from 8AM to 8PM Eastern Time; excluding holidays.
# Living with your system

**Activities**

<table>
<thead>
<tr>
<th>Activity</th>
<th>What You Need To Know</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bathing, Showering, and Swimming</strong></td>
<td>Your Sensor is water-resistant and can be worn while bathing, showering, or swimming.</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> Do NOT take your Sensor deeper than 3 feet (1 meter) or immerse it longer than 30 minutes in water.</td>
</tr>
<tr>
<td><strong>Sleeping</strong></td>
<td>Your Sensor should not interfere with your sleep. It is recommended that you scan your Sensor before going to sleep and when you wake up because your Sensor holds only 8 hours of data at a time. For example, if you sleep for 9 hours without scanning your Sensor, 1 hour of data will not be collected and a gap will appear on your glucose graph.</td>
</tr>
<tr>
<td></td>
<td>Place your device nearby so you will receive alarms and any reminders you have set.</td>
</tr>
<tr>
<td><strong>Traveling by Air</strong></td>
<td>You may use your System while on an aircraft, following any requests from the flight crew.</td>
</tr>
<tr>
<td></td>
<td><strong>IMPORTANT:</strong> Alarms will not be issued while your phone is in airplane mode unless Bluetooth is enabled.</td>
</tr>
<tr>
<td></td>
<td>While using the App, you can continue to scan your Sensor to get glucose readings after you put your phone in airplane mode. If using Android Phone, also turn NFC back on.</td>
</tr>
<tr>
<td></td>
<td>The Reader is classified a Medical-Portable Electronic Device (M-PED) that meets all required M-PED emission standards for safe use onboard an aircraft: RTCA/DO160, Section 21, Category M.</td>
</tr>
<tr>
<td></td>
<td>Some airport full-body scanners include x-ray or millimeter radio-wave, which you cannot expose your Sensor to. The effect of these scanners has not been evaluated and the exposure may damage the Sensor or cause inaccurate results. To avoid removing your Sensor, you may request another type of screening. If you do choose to go through a full-body scanner, you must remove your Sensor.</td>
</tr>
<tr>
<td></td>
<td>The Sensor can be exposed to common electrostatic (ESD) and electromagnetic interference (EMI), including airport metal detectors. You can also keep your Reader on while going through these.</td>
</tr>
</tbody>
</table>
Living with your system

Activities

Activity

Bathing, Showering, and Swimming

Note: Do NOT take your Sensor deeper than 3 feet (1 meter) or immerse it longer than 30 minutes in water.

Sleeping

Your Sensor should not interfere with your sleep. It is recommended that you scan your Sensor before going to sleep and when you wake up because your Sensor holds only 8 hours of data at a time. For example, if you sleep for 9 hours without scanning your Sensor, 1 hour of data will not be collected and a gap will appear on your glucose graph.

Place your device nearby so you will receive alarms and any reminders you have set.

You may use your System while on an aircraft, following any requests from the flight crew.

IMPORTANT: Alarms will not be issued while your phone is in airplane mode unless Bluetooth is enabled.
Note

Changing the time and date affects the graphs and statistics. The symbol may appear on your glucose graph indicating a time change. Gaps in the graph may result or glucose readings may be hidden. If you are changing time zones, you can change the time and date settings on the Reader by touching the Settings symbol 🌙 from the Home Screen, then Time & Date.

Activity

Bathing, Showering, and Swimming

Your Sensor should not interfere with your sleep. It is recommended that you scan your Sensor before going to sleep and when you wake up because your Sensor holds only 8 hours of data at a time. For example, if you sleep for 9 hours without scanning your Sensor, 1 hour of data will not be collected and a gap will appear on your glucose graph.

Place your device nearby so you will receive alarms and any reminders you have set.

Sleeping

You may use your System while on an aircraft, following any requests from the flight crew.

IMPORTANT: Alarms will not be issued while your phone is in airplane mode unless Bluetooth is enabled.
Charging the Reader

A fully charged Reader battery should last up to 4 days. Your battery life may vary depending on your usage. A Low Battery message accompanies your result when you have enough charge remaining for about one day of use.

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Before charging, to minimize the risk of fire or burns:</td>
</tr>
<tr>
<td>1</td>
<td>• Check the provided power adapter and yellow USB cable to make sure they are not damaged.</td>
</tr>
<tr>
<td></td>
<td>• Check the Reader’s USB port and make sure it is dry and free of debris.</td>
</tr>
<tr>
<td>2</td>
<td>Plug the yellow USB cable into an electrical outlet using the power adapter. Then, plug the other end of the USB cable into the USB port on the Reader.</td>
</tr>
</tbody>
</table>
Charging the Reader

A fully charged Reader battery should last up to 2 weeks. A Low Battery message accompanies your Reader when the battery is very low.

**Stop**

**Action**

Before charging, check:

- Check that the Reader is turned off.
- Check that the Reader is not damaged.

1. Fully charge your Reader before storing it for more than 3 months.

2. If the Reader does not turn on after being charged or you notice a significant deterioration in battery life, contact Customer Service about replacing your Reader, yellow USB cable, and power adapter. Customer Service is available at 1-855-632-8658 7 Days a Week from 8AM to 8PM Eastern Time; excluding holidays.

**Note**

You must charge the Reader when the battery is low to keep using the Reader.

To fully charge the battery, charge the Reader for at least 3 hours.

If the Reader does not turn on after being charged or you notice a significant deterioration in battery life, contact Customer Service about replacing your Reader, yellow USB cable, and power adapter. Customer Service is available at 1-855-632-8658 7 Days a Week from 8AM to 8PM Eastern Time; excluding holidays.

Fully charge your Reader before storing it for more than 3 months.
CAUTION

Always use the Abbott provided power adapter and yellow USB cable that came with your Reader to minimize the risk of fire or burns. Take care when plugging and unplugging your USB cable. Do not force or bend the end of the USB cable into the Reader's USB port.

Choose a location for charging where you can easily access the power adapter and quickly disconnect to prevent the potential risk of electrical shock.

The maximum surface temperature of the Reader could go as warm as 117°F. The maximum surface temperature of the power adapter when charging could go as warm as 129°F. Under these conditions, do not hold the Reader or the power adapter for five minutes or more. People with disorders of peripheral circulation or sensation should use caution at this temperature.

Do NOT expose the USB cable or power adapter to water or other liquids as this may cause them to not function properly and may lead to risk of fire or burns.
Charging the Reader

A fully charged Reader battery should last for approximately 300 hours of reading. A Low Battery message accompanies your Reader if the battery level is critically low. Do NOT use the built-in meter while the Reader is connected to an electrical outlet or a computer due to the potential risk of electrical shock.

Before charging, to minimize the risk of fire or burns:

1. Check the provided power adapter and yellow USB cable to make sure they are not damaged.
2. Check the Reader’s USB port and make sure it is dry and free of debris.

Plug the yellow USB cable into an electrical outlet using the power adapter. Then, plug the other end of the USB cable into the USB port on the Reader.
Reader Settings and Information

You can go to the Settings menu to change many settings on the Reader, like alarm settings, sound & vibration, time & date, and target range. The Settings menu is also where you go to do a Control Solution Test or to check the System Status.

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>To get to the Settings menu, touch the Settings symbol 🌟 on the Home Screen.</td>
</tr>
<tr>
<td></td>
<td>Touch the setting you want to change:</td>
</tr>
<tr>
<td></td>
<td><strong>Alarms</strong> - See Reader Alarms section for information on setting alarms</td>
</tr>
<tr>
<td></td>
<td><strong>Sound &amp; Vibration</strong> - Set Reader sound and vibration. These also apply to alarms</td>
</tr>
<tr>
<td></td>
<td><strong>Time &amp; Date</strong> - Change the Time or Date</td>
</tr>
<tr>
<td></td>
<td><strong>Reminders</strong> - See Using Reminders section for information on setting reminders</td>
</tr>
<tr>
<td></td>
<td><strong>Control Solution Test</strong> - Perform a control solution test</td>
</tr>
<tr>
<td></td>
<td><strong>Language</strong> - Change the language on the Reader</td>
</tr>
<tr>
<td></td>
<td><strong>System Status</strong> - Check Reader information and performance</td>
</tr>
<tr>
<td></td>
<td>• View System Information: The Reader will display information about your System including:</td>
</tr>
<tr>
<td></td>
<td>○ Current Sensor end date and time</td>
</tr>
<tr>
<td></td>
<td>○ Reader serial number and version number</td>
</tr>
<tr>
<td></td>
<td>○ Serial numbers and status codes of most recent Sensors (up to three)</td>
</tr>
<tr>
<td></td>
<td>○ Sensor version for most recent Sensor</td>
</tr>
<tr>
<td></td>
<td>○ Number of Sensors that have been used with Reader</td>
</tr>
<tr>
<td></td>
<td>○ Number of tests that have been performed using test strips</td>
</tr>
<tr>
<td></td>
<td>• View Event Logs: A list of events recorded by the Reader, which may be used by Customer Service to help troubleshoot your System</td>
</tr>
<tr>
<td></td>
<td>• Perform a Reader Test: The Reader Test will perform internal diagnostics and allow you to check that the display is showing all pixels, sounds and vibrations are working, and the Touchscreen is responding when touched</td>
</tr>
<tr>
<td></td>
<td><strong>Report Settings</strong> – Work with your health care professional to set your Target Glucose Range, which is displayed on glucose graphs on the Reader and used to calculate your Time In Target. Your Target Glucose Range is not related to your alarm settings</td>
</tr>
<tr>
<td></td>
<td><strong>Reader Basics</strong> – Review the information screens shown during the Reader setup</td>
</tr>
<tr>
<td></td>
<td><strong>Dose Increment</strong> – You can set the insulin dose increment to either 1.0 or 0.5 units for use with insulin notes</td>
</tr>
</tbody>
</table>
App Settings and Other Menu Options

You can go to the Main Menu (iPhone) or Overflow Menu (Android Phone) to change settings like your LibreView password. You can also access the Connected Apps option, Help, and information about the App.

App Settings:

Unit of Measurement - View the glucose unit of measure used in the App.

Report Settings - Work with your health care professional to set your Target Glucose Range, which is displayed on glucose graphs in the App and used to calculate your Time In Ranges Custom report. The Target Glucose Range setting will not set glucose alarm levels. Tap SAVE when you are done.

Carbohydrate Units - Choose grams or servings for food notes that you enter. Tap SAVE when you are done.

Text to Speech - Turn on Text to Speech to have the glucose reading read aloud when you scan the Sensor. You will hear only your current glucose value and trend arrow direction.

Additional information, such as the glucose graph and any message, is available on your My Glucose screen. Always review your My Glucose screen to get complete information.

Remember that Text to Speech inherits the volume settings on your phone. If your phone volume is turned off, you will not hear the glucose reading read aloud. Tap SAVE when you are done.

Scan Sounds (Android Phone only) - Select whether you would like to hear a sound in addition to a vibration when you scan the Sensor.

Remember that Scan Sounds inherit the volume settings on your phone. If your phone volume is turned off, you will not hear a scan sound.

The Scan Sounds setting does not affect alarms. Tap SAVE when you are done.

Account Settings:

Account Settings - View/change your LibreView account information.

Account Password - Change your LibreView account password.

Account Options (if available in your App) - Delete your LibreView account. Deleting your account means you will no longer be able to:

- Use your current Sensor.
- Access your account and all related data. Data will be deleted and cannot be recovered for future use.
- Use the account with the FreeStyle Libre 2 app.
- Use the Connected Apps or Account Settings features.

Connected Apps:

The Connected Apps option in the Main Menu opens a web browser within the App. It lists different apps you can connect with to share your data. To connect your data with apps listed in the Connected Apps option, select them from the list of apps, and follow the onscreen instructions.

Help:

View in-app tutorials, access the product labeling, and review the App's legal information. You can also view the Event Log, which is a list of events recorded by the App. This may be used by Customer Service to help troubleshoot.

About:

View App software version and other information.
Maintenance and Disposal

Cleaning and Disinfecting the Reader

Cleaning and disinfecting your Reader is important to prevent the spread of infectious diseases. The Reader has a mean useful life of 3 years and has been validated for 156 cleaning and disinfection cycles (the equivalent of 1 cycle per week for 3 years).

You should clean and disinfect the Reader once a week. The Reader should also be cleaned and disinfected prior to being handled by any person providing testing assistance to the user.

Cleaning is the physical removal of organic soil from the Reader surfaces. Keeping the Reader clean helps ensure that it is working properly and that no dirt gets in the device.

Cleaning allows for successful, subsequent disinfection.

Disinfection is a process that destroys pathogens, such as viruses and other microorganisms, on the Reader surfaces. Disinfecting the Reader helps ensure that no infection is passed on when you or others come in contact with the Reader.

This device is not intended for use with multiple patients in health care or assisted-use settings such as hospitals, physician offices, or long-term care facilities because it has not been cleared by FDA for use in these settings, including for routine assisted testing or as part of glycemic control procedures.

Use of this device on multiple patients may lead to transmission of Human Immunodeficiency Virus (HIV), Hepatitis C Virus (HCV), Hepatitis B Virus (HBV), or other bloodborne pathogens.

To clean and disinfect your Reader, you will need Clorox Healthcare Bleach Germicidal Wipes, EPA Reg. #67619-12.

These disinfectant wipes contain a 0.55% Sodium Hypochlorite (NaOCl) solution and have been shown to be safe for use with the Reader. They may be purchased at major online retailers, such as Walmart.com, Amazon.com, and OfficeDepot.com.

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<th>Action</th>
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<tr>
<td>1</td>
<td>Turn off the Reader before you clean and disinfect it.</td>
</tr>
<tr>
<td>2</td>
<td>Clean the outside surfaces of the Reader with a bleach wipe until visibly clean. Make sure liquid does not get into the test strip and USB ports.</td>
</tr>
<tr>
<td>3</td>
<td>For disinfection, use a second bleach wipe to wipe all outside surfaces of the Reader until they are wet. Make sure liquid does not get into the test strip and USB ports. Allow the Reader surfaces to remain wet for 60 seconds.</td>
</tr>
<tr>
<td>4</td>
<td>Dry with clean paper towel to remove any residual moisture.</td>
</tr>
<tr>
<td>5</td>
<td>When finished, thoroughly wash your hands with soap and water.</td>
</tr>
</tbody>
</table>

**IMPORTANT:** Do NOT use the Reader if you notice any signs of deterioration on the Reader (such as clouding or crazing on the display of the Reader, corroding, eroding or swelling of the plastic housing, or cracking of plastic housing or display) or if the Reader does not turn on. Contact Customer Service about replacing your Reader. Customer Service is available at 1-855-632-8658 7 Days a Week from 8AM to 8PM Eastern Time; excluding holidays.

Maintenance

The System has no serviceable parts.

Disposal

This product should be disposed of in accordance with all applicable local regulations related to the disposal of electronic equipment, batteries, sharps, and materials potentially exposed to body fluids. Contact Customer Service for further information on the appropriate disposal of system components. Customer Service is available at 1-855-632-8658 7 Days a Week from 8AM to 8PM Eastern Time; excluding holidays.
Use of this device on multiple patients is not intended for the detection of Human Immunodeficiency Virus (HIV), Hepatitis C Virus (HCV), Hepatitis B Virus (HBV), or other blood borne pathogens to persons undergoing fingerstick procedures for blood sampling can be found. See References section for more information.

To clean and disinfect your Reader, these disinfectant wipes contain a bleach formulation to be safe for use with the Reader. They may be purchased at the LabSourceDepot.com.

Step | Action
--- | ---
1  | Turn off the Reader.  
2  | Clean the outside surfaces of the Reader with a bleach wipe until visibly clean. Make sure liquid does not get into the test strip and USB ports.  
3  | For disinfection, use a second bleach wipe to wipe all outside surfaces of the Reader until they are wet. Make sure liquid does not get into the test strip and USB ports. Allow the Reader surfaces to remain wet for 60 seconds.  
4  | Dry with clean paper towel to remove any residual moisture.  
5  | When finished, thoroughly wash your hands with soap and water.

IMPORTANT: Do NOT use the Reader if you notice any signs of deterioration on the Reader (such as clouding or crazing on the display of the Reader, corroding, eroding or swelling of the plastic housing, or cracking of plastic housing or display) or if the Reader is not working. Contact Customer Service to order a new Reader. Customer Service is available at 1-800-555-5555.
Use of this device on multiple patients should be avoided if possible. If this cannot be avoided, Hepatitis A Virus (HAV), Hepatitis B Virus (HBV), or other bloodborne pathogens could be transmitted to the reader. Caution:

To clean and disinfect your Reader:

These disinfectant wipes contain a mild disinfectant. To clean and disinfect the Reader, they may be purchased at most supermarkets and hardware stores.

**Step | Action**
--- | ---
1 | Turn off the Reader. Do not remove batteries.
2 | Clean the outside surfaces of the Reader with a bleach wipe until visibly clean. Make sure liquid does not get into the test strip and USB ports.
3 | For disinfection, use a second bleach wipe to wipe all outside surfaces of the Reader until they are wet. Make sure liquid does not get into the test strip and USB ports. Allow the Reader surfaces to remain wet for 60 seconds.
4 | Dry with clean paper towel to remove any residual moisture.
5 | When finished, thoroughly wash your hands with soap and water.

**IMPORTANT:** Do NOT use the Reader if you notice any signs of deterioration on the Reader (such as clouding or crazing on the display of the Reader, corroding, eroding or swelling of the plastic housing, or cracking of plastic housing or display) or if the Reader becomes inoperable. Contact Customer Support for the appropriate course of action. Contact Customer Support at 1-800-999-0000.

**CAUTION**

Do NOT place the Reader in water or other liquids. Avoid getting dust, dirt, blood, control solution, water, bleach, or any other substance in the test strip or USB port as this may cause the Reader to not function properly and may lead to risk of fire or burns.
Adding Notes

Both the Reader and the App let you track food, insulin and exercise.

**How to do it with the Reader:**

Press the Home Button to turn on the Reader. Check your glucose.

From the Glucose Reading screen, add notes by touching the symbol.

Select the checkbox next to the note you would like to add. Touch the down arrow to view additional note options.

After checking the box for food and insulin notes, the + symbol appears to the right of the note. Touch + to add more specific information to the note. Then touch OK.

Touch OK to save notes.
Adding Notes

Both the Reader and the App let you add notes to your glucose readings.

How to do it with the Reader:

Press the Home Button to turn on the Reader and check your glucose.

From the Glucose Reading screen, add notes by touching the symbol.

Select the checkbox next to the note you would like to add. Touch the down arrow to view additional note options.

After checking the box for food and insulin notes, the + symbol appears to the right of the note. Touch + to add more specific information to the note. Then touch OK.

Touch OK to save notes.

Note

- You can add a note at the time of your glucose reading or within 15 minutes after your reading was obtained.
- Food and rapid-acting insulin notes are shown on your glucose graphs and in your Logbook as symbols.
Adding Notes

How to do it with the App:

Tap the pen symbol on the My Glucose screen.

Select the checkbox next to the note you would like to add.

After you check the box, you can add more specific information to your note.

Tap DONE to save your note.
Adding Notes

How to do it with the App:

Tap the symbol on the My Glucose screen.

Select the checkbox next to the note you would like to add.

After you check the box, you can add more specific information to your note.

Tap DONE to save your note.

Note

You cannot add a blood glucose result note to a glucose reading. See Reviewing History section for how to enter blood glucose results in the App's Logbook.
Adding Notes

How to do it with the App:

Tap the pencil symbol on the My Glucose graph.

Select the checkbox next to the note you would like to add.

After you check the box, you can add more specific information to your note.

Tap DONE to save your note.

Note:

Notes are shown on your glucose graphs and in your Logbook as symbols. See App Symbols section for more information.
Reviewing History

Reviewing and understanding your glucose history can be an important tool for improving your glucose control. Both the Reader and App store about 90 days of information and have several ways to review your past glucose readings, notes, and other information.

**How to do it with the Reader:**

Touch the **Review History** icon on the Home Screen.

Use the arrows to view the available options.
Reviewing History

Reviewing and understanding your glucose readings can be an important tool for improving your care. The Reader and App store about 90 days of data. There are several ways to review your past glucose readings, notes, and other information.

How to do it with the Reader:

Touch the **Review History** icon on the Home Screen.

Use the arrows to view the available options.

---

**Important**

Work with your health care professional to understand your glucose history.
Reviewing History

How to do it with the App:

From the Main Menu, tap Logbook to view the Logbook or tap on one of the other history options under Reports.
How to do it with the App:

From the Main Menu, tap Logbook > View History. Tap on one of the other history options under Reports.

Important

Work with your health care professional to understand your glucose history.
# Reviewing History

Summary of History Options - Reader

<table>
<thead>
<tr>
<th>Logbook</th>
<th>What data is used?</th>
<th>What does this show?</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daily Graph</td>
<td>Sensor scan results and blood glucose test results from each day.</td>
<td>Shows entries for each time you scanned your Sensor or performed a blood glucose test.</td>
<td></td>
</tr>
<tr>
<td>Average Glucose</td>
<td></td>
<td>If you entered notes with a glucose reading, the 🖊 symbol appears. Touch the entry to review detailed information including any notes you entered.</td>
<td></td>
</tr>
<tr>
<td>Daily Patterns</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time In Target</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Low Glucose Events</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sensor Usage</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Reviewing History

**Summary of History Options - Reader**

<table>
<thead>
<tr>
<th>Logbook</th>
<th>Sensor glucose readings from each day.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Daily Graph</strong></td>
<td></td>
</tr>
<tr>
<td>Average Glucose</td>
<td></td>
</tr>
<tr>
<td>Daily Patterns</td>
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<tr>
<td>Time In Target</td>
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<tr>
<td>Low Glucose Events</td>
<td></td>
</tr>
<tr>
<td>Sensor Usage</td>
<td></td>
</tr>
</tbody>
</table>

### What does this show?

Shows a graph of your Sensor glucose readings by day. The blue bar indicates your Target Glucose Range. Symbols indicate any food or rapid-acting insulin notes you have entered.

### Example

![Graph Example](image)

**Daily Graph**

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Glucose Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>23 Mar</td>
<td>am</td>
<td>120 mg/dL</td>
</tr>
<tr>
<td>23 Mar</td>
<td>pm</td>
<td>150 mg/dL</td>
</tr>
<tr>
<td>23 Mar</td>
<td>am</td>
<td>180 mg/dL</td>
</tr>
<tr>
<td>23 Mar</td>
<td>pm</td>
<td>100 mg/dL</td>
</tr>
</tbody>
</table>

*23 Mar Thursday*
### Reviewing History

#### Summary of History Options - Reader

<table>
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<tr>
<th>What data is used?</th>
<th>What does this show?</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Logbook</td>
<td>Sensor glucose readings collected in the last 7, 14, 30, and 90 days.</td>
<td><img src="https://example.com/average-glucose.png" alt="Average Glucose Example" /></td>
</tr>
<tr>
<td>Daily Graph</td>
<td>Shows information about the average of your Sensor glucose readings. It includes the overall average and the average for four different 6-hour periods of the day.</td>
<td><img src="https://example.com/average-glucose.png" alt="Average Glucose Example" /></td>
</tr>
<tr>
<td><strong>Average Glucose</strong></td>
<td></td>
<td><img src="https://example.com/average-glucose.png" alt="Average Glucose Example" /></td>
</tr>
<tr>
<td>Daily Patterns</td>
<td></td>
<td><img src="https://example.com/average-glucose.png" alt="Average Glucose Example" /></td>
</tr>
<tr>
<td>Time In Target</td>
<td></td>
<td><img src="https://example.com/average-glucose.png" alt="Average Glucose Example" /></td>
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<tr>
<td>Low Glucose Events</td>
<td></td>
<td><img src="https://example.com/average-glucose.png" alt="Average Glucose Example" /></td>
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# Reviewing History

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<tr>
<td>Logbook</td>
<td>Sensor glucose readings collected in the last 7, 14, 30, and 90 days.</td>
</tr>
<tr>
<td>Daily Graph</td>
<td>Shows the pattern and variability of your Sensor glucose over a typical day.</td>
</tr>
<tr>
<td>Average Glucose</td>
<td></td>
</tr>
<tr>
<td>Daily Patterns</td>
<td></td>
</tr>
<tr>
<td>Time In Target</td>
<td></td>
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<td>Low Glucose Events</td>
<td></td>
</tr>
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**Example**

![Daily Patterns Chart](chart.png)
# Reviewing History

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<td>Logbook</td>
<td>Sensor glucose readings collected in the last 7, 14, 30, and 90 days.</td>
<td></td>
</tr>
<tr>
<td>Daily Graph</td>
<td>Shows the percentage of time your Sensor glucose readings were above, below, or within your Target Glucose Range.</td>
<td></td>
</tr>
<tr>
<td>Average Glucose</td>
<td></td>
<td></td>
</tr>
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---

![FreeStyle Libre 2 Logo](image)
## Reviewing History

Summary of History Options - Reader

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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sensor glucose readings collected in the last 7, 14, 30, and 90 days.</td>
<td>Shows the number of low glucose events measured by your Sensor. It includes the total number of events and the events in four different 6-hour periods of the day.</td>
<td><img src="chart.png" alt="Low Glucose Events" /></td>
<td><img src="chart.png" alt="Last 7 Days" /></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Reviewing History

### Summary of History Options - Reader

<table>
<thead>
<tr>
<th>What data is used?</th>
<th>What does this show?</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Logbook</td>
<td>Sensor glucose readings collected in the last 7, 14, 30, and 90 days.</td>
<td><img src="sensor_usage.png" alt="Sensor Usage" /></td>
</tr>
<tr>
<td>Daily Graph</td>
<td>Shows how often you scan your Sensor. It includes an average of how many times you scanned your Sensor each day, and the percentage of possible Sensor data the Reader recorded from your scans.</td>
<td></td>
</tr>
<tr>
<td>Average Glucose</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Daily Patterns</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time In Target</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Low Glucose Events</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sensor Usage</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Freestyle Libre 2**

FLASH GLUCOSE MONITORING SYSTEM
## Reviewing History

Summary of History Options - App (Example screens displayed for iPhone)

<table>
<thead>
<tr>
<th>Logbook</th>
<th>What data is used?</th>
<th>What does this show?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daily Graph</td>
<td>Sensor scan results from each day.</td>
<td>Shows entries for each time you scanned your Sensor as well as notes you added.</td>
</tr>
<tr>
<td>Average Glucose</td>
<td>You can also use the Logbook to manually enter your</td>
<td>The Logbook also lets you record a blood glucose test you performed. To do this,</td>
</tr>
<tr>
<td></td>
<td>blood glucose test results.</td>
<td>tap the symbol and enter your result.</td>
</tr>
<tr>
<td>Daily Patterns</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time In Target</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Low Glucose Events</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sensor Usage</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Example

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Glucose Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>November 7, 2017</td>
<td>3:35 PM</td>
<td>150 mg/dL</td>
</tr>
</tbody>
</table>
## Reviewing History

**Summary of History Options - App** (Example screens displayed for iPhone)

<table>
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<tr>
<th>What data is used?</th>
<th>What does this show?</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Logbook</td>
<td>Sensor glucose readings from each day.</td>
<td><img src="image" alt="Example graph showing daily glucose readings" /></td>
</tr>
<tr>
<td>Daily Graph</td>
<td>Shows a graph of your Sensor glucose readings by day. The green bar indicates your Target Glucose Range. Symbols indicate any notes you have entered.</td>
<td><img src="image" alt="Example graph showing daily glucose readings" /></td>
</tr>
<tr>
<td>Average Glucose</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Daily Patterns</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time In Target</td>
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<table>
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<tr>
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<tbody>
<tr>
<td>Logbook</td>
<td>Sensor glucose readings collected in the last 7, 14, 30, and 90 days.</td>
<td></td>
</tr>
<tr>
<td>Daily Graph</td>
<td></td>
<td>Shows information about the average of your Sensor glucose readings. It includes the overall average and the average for different periods of the day.</td>
</tr>
<tr>
<td><strong>Average Glucose</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Daily Patterns</td>
<td></td>
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</tr>
<tr>
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</tr>
<tr>
<td>Sensor Usage</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Example**

![Average Glucose Example](image)

- **Average Glucose**
  - **April 29 - July 27, 2017**
  - **Average 144 mg/dL**
  - Data available for 30 of 90 days
## Reviewing History

**Summary of History Options - App (Example screens displayed for iPhone)**

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</thead>
<tbody>
<tr>
<td>Logbook</td>
<td>Sensor glucose readings collected in the last 7, 14, 30, and 90 days.</td>
<td><img src="image" alt="Example Graph" /></td>
</tr>
<tr>
<td>Daily Graph</td>
<td>Shows the pattern and variability of your Sensor glucose over a typical day.</td>
<td></td>
</tr>
<tr>
<td>Average Glucose</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Daily Patterns</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time In Target</td>
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<td>Sensor glucose readings collected in the last 7, 14, 30, and 90 days.</td>
<td></td>
</tr>
<tr>
<td>Daily Graph</td>
<td>Shows the percentage of time your Sensor glucose readings were above, below, or within your Target Glucose Range.</td>
<td></td>
</tr>
<tr>
<td>Average Glucose</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Daily Patterns</td>
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</thead>
<tbody>
<tr>
<td>Logbook</td>
<td>Sensor glucose readings collected in the last 7, 14, 30, and 90 days.</td>
<td>Shows the number of low glucose events measured by your Sensor. It includes the total number of events and the events in different periods of the day.</td>
<td></td>
</tr>
<tr>
<td>Daily Graph</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Glucose</td>
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<td></td>
</tr>
<tr>
<td>Time In Target</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Low Glucose Events</strong></td>
<td></td>
<td></td>
<td><img src="image" alt="Low Glucose Events Example" /></td>
</tr>
<tr>
<td>Sensor Usage</td>
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<tr>
<td><strong>Logbook</strong></td>
<td>Sensor glucose readings collected in the last 7, 14, 30, and 90 days.</td>
<td>Shows how often you scan your Sensor. It includes the total number of scans, an average of how many times you scanned your Sensor each day, and the percentage of possible Sensor data the App recorded from your scans.</td>
<td></td>
</tr>
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<td></td>
<td></td>
<td></td>
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<td><strong>Average Glucose</strong></td>
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</tr>
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<td><strong>Low Glucose Events</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Sensor Usage</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Important Safety Information

- **Can be used by children age 4 and older**
- **Cannot be used with automated insulin dosing (AID) systems**
- **Taking more than 500 mg of Vitamin C per day may affect Sensor readings, which could cause you to miss a severe low glucose event**

### FreeStyle Libre 2 Plus Sensor

- **15 day wear duration**
- **Can be used by children age 2 and older**
- **Can be used with compatible automated insulin dosing (AID) systems**
- **Taking more than 1000 mg of Vitamin C per day may falsely raise Sensor readings, which could cause you to miss a severe low glucose event. You can take up to 1000 mg of Vitamin C per day and can still use the Sensor readings to make treatment decisions.**
# Reader Symbols

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Active Sensor" /></td>
<td>Active Sensor</td>
</tr>
<tr>
<td><img src="image" alt="Direction glucose is going" /></td>
<td>Direction glucose is going</td>
</tr>
<tr>
<td><img src="image" alt="Caution" /></td>
<td>Caution</td>
</tr>
<tr>
<td><img src="image" alt="View previous/next screen" /></td>
<td>View previous/next screen</td>
</tr>
<tr>
<td><img src="image" alt="Sound and Vibration ON" /></td>
<td>Sound and Vibration ON</td>
</tr>
<tr>
<td><img src="image" alt="Sound ON, Vibration OFF" /></td>
<td>Sound ON, Vibration OFF</td>
</tr>
<tr>
<td><img src="image" alt="Sound OFF, Vibration ON" /></td>
<td>Sound OFF, Vibration ON</td>
</tr>
<tr>
<td><img src="image" alt="Sound and Vibration OFF" /></td>
<td>Sound and Vibration OFF</td>
</tr>
<tr>
<td><img src="image" alt="Sensor communicating with Reader" /></td>
<td>Sensor communicating with Reader</td>
</tr>
<tr>
<td><img src="image" alt="Sensor not communicating with Reader" /></td>
<td>Sensor not communicating with Reader</td>
</tr>
<tr>
<td><img src="image" alt="When you see this symbol" /></td>
<td>When you see this symbol during the first 12 hours of wearing a Sensor, confirm Sensor glucose readings with a blood glucose test before making treatment decisions.</td>
</tr>
<tr>
<td><img src="image" alt="Notes" /></td>
<td>Notes</td>
</tr>
<tr>
<td><img src="image" alt="Add more information to notes" /></td>
<td>Add more information to notes</td>
</tr>
<tr>
<td><img src="image" alt="Food note" /></td>
<td>Food note</td>
</tr>
<tr>
<td><img src="image" alt="Rapid-acting insulin note" /></td>
<td>Rapid-acting insulin note</td>
</tr>
<tr>
<td><img src="image" alt="Time changed on Reader" /></td>
<td>Time changed on Reader</td>
</tr>
<tr>
<td><img src="image" alt="Blood glucose test" /></td>
<td>Blood glucose test</td>
</tr>
<tr>
<td><img src="image" alt="Settings" /></td>
<td>Settings</td>
</tr>
<tr>
<td><img src="image" alt="Control solution test result" /></td>
<td>Control solution test result</td>
</tr>
<tr>
<td><img src="image" alt="Low battery" /></td>
<td>Low battery</td>
</tr>
<tr>
<td><img src="image" alt="Battery charging" /></td>
<td>Battery charging</td>
</tr>
<tr>
<td><img src="image" alt="Sensor too cold" /></td>
<td>Sensor too cold</td>
</tr>
<tr>
<td><img src="image" alt="Sensor too hot" /></td>
<td>Sensor too hot</td>
</tr>
</tbody>
</table>
## App Symbols

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🔄</td>
<td>Exercise note</td>
</tr>
<tr>
<td>🍎</td>
<td>Food + Insulin note</td>
</tr>
<tr>
<td>⌚</td>
<td>Time change</td>
</tr>
<tr>
<td>📚</td>
<td>Main menu</td>
</tr>
<tr>
<td>📜</td>
<td>Multiple/Custom notes</td>
</tr>
<tr>
<td>🔄</td>
<td>Share report (iPhone)</td>
</tr>
<tr>
<td>🔄</td>
<td>Share report (Android Phone)</td>
</tr>
<tr>
<td>⚪️</td>
<td>Overflow menu (Android Phone)</td>
</tr>
<tr>
<td>📆</td>
<td>Calendar</td>
</tr>
<tr>
<td>📆</td>
<td>Additional information</td>
</tr>
<tr>
<td>🌡️</td>
<td>Sensor too cold</td>
</tr>
<tr>
<td>🌡️</td>
<td>Sensor too hot</td>
</tr>
</tbody>
</table>

- **App icon**: Alarms are unavailable
- **Scan button (iPhone)**: Direction glucose is going
- **Caution**: When you see this symbol during the first 12 hours of wearing a Sensor, confirm Sensor glucose readings with a blood glucose test before treatment.
- **Add/edit notes**: Manually entered blood glucose result note
- **Add blood glucose result note**: Add blood glucose result note
- **Food note**: Food note
- **Insulin (Rapid or Long-acting) note**: Insulin (Rapid or Long-acting) note
## System Specifications

<table>
<thead>
<tr>
<th>Sensor Specifications</th>
<th>Reader Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sensor glucose assay method</strong></td>
<td>Amperometric electrochemical sensor</td>
</tr>
<tr>
<td><strong>Sensor glucose reading range</strong></td>
<td>40 to 400 mg/dL</td>
</tr>
<tr>
<td><strong>Sensor size</strong></td>
<td>5 mm height and 35 mm diameter</td>
</tr>
<tr>
<td><strong>Sensor weight</strong></td>
<td>5 grams</td>
</tr>
<tr>
<td><strong>Sensor power source</strong></td>
<td>One silver oxide battery</td>
</tr>
<tr>
<td><strong>Sensor data</strong></td>
<td>FreeStyle Libre 2 Sensor: Up to 14 days</td>
</tr>
<tr>
<td></td>
<td>FreeStyle Libre 2 Plus Sensor: Up to 15 days</td>
</tr>
<tr>
<td><strong>Sensor memory</strong></td>
<td>8 hours (glucose readings stored every 15 minutes)</td>
</tr>
<tr>
<td><strong>Operating temperature</strong></td>
<td>50 °F to 113 °F</td>
</tr>
<tr>
<td><strong>Sensor Applicator and Sensor Pack storage temperature</strong></td>
<td>36 °F to 82 °F</td>
</tr>
<tr>
<td><strong>Operating and storage relative humidity</strong></td>
<td>10-90%, non-condensing</td>
</tr>
<tr>
<td><strong>Sensor water resistance and ingress protection</strong></td>
<td>IP27: Can withstand immersion into 3 ft (1 meter) of water for up to 30 minutes. Protected against insertion of objects &gt; 12 mm diameter</td>
</tr>
<tr>
<td><strong>Operating and storage altitude</strong></td>
<td>-1,250 ft (-381 meters) to 10,000 ft (3,048 meters)</td>
</tr>
<tr>
<td><strong>Radio Frequency</strong></td>
<td>2.402-2.480 GHz BLE; GFSK; 0dBm EIRP</td>
</tr>
<tr>
<td><strong>Sensor transmission range</strong></td>
<td>20 ft unobstructed</td>
</tr>
</tbody>
</table>

Please refer to the User's Manual for updates to the information.
System Specifications

Sensor Specifications

- Blood glucose range: 20 to 500 mg/dL
- Flow rate: 95 mm x 60 mm x 16 mm
- Weight: 65 grams
- Power source: One lithium-ion rechargeable battery

Reader Specifications

- Radio Frequency: Near Field Communication (13.56 MHz RF); ASK, Modulation: 124 kHz; 1 cm communication range; 2.402-2.480 GHz; BLE; 803/2338 BPP
- Port: Micro USB

Minimum Computer Requirements

- System: Mac or Windows
- OS: 10.9/10 or 11
- RAM: 4 GB
- Storage: 1 GB

Electromagnetic Compatibility (EMC)

- Freq/Electric Field II Reader - FCC ID: Q5S-L1002
- Freq/Electric Field II Sensor - FCC ID: Q5S-L10025 or FCC ID: Q5S-L100252

- The system needs special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided in the manual.
- Portable and mobile RF communications equipment can affect the system.
- Use of accessories, transceivers, and cables other than those specified or provided by Abbott Diabetes Care could result in interruption in electromagnetic emissions or decreased electromagnetic immunity of the System and result in improper operation.
- The system should not be used adjacent or too close to other equipment and if a hand-held or mobile device is used, the system should be observed to verify normal operation in the configuration in which it will be used.
- The device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) the device may not cause harmful interference and (2) the device must accept any interference received, including interference that may cause undesired operation.
- Changes or modifications not approved by Abbott could void the users authority to operate the equipment.

Security Measures and Quality of Service:

- The communication between the Reader and Sensor during a scan is a short range Near Field Communication (NFC) method which makes it difficult to interfere with or intercept during transmission. The transmitted data is protected by a proprietary data format, encryption, and memory map. The integrity of transmitted data is ensured by a cyclic redundancy check (CRC) generated by the Sensor and verified by the Reader. The communication between the Reader and Sensor for Alarm data is a standard Bluetooth Low Energy (BLE) connection. The pairing of the Sensor to the Reader is accomplished during activation with an authorized login procedure that uses an Out-of-band key exchange (NFC). This prevents unauthorized devices from connecting to the Sensor.
- The transmitted data is protected by a proprietary data format and encryption. This prevents unauthorized devices from accessing the data if they are within range and intercept the transmission. Under normal operation, the standard BLE protocol allows for many users to be in the same vicinity. In the case where the connection is lost due to out-of-range or interference, reconnection is only possible with the authorized Reader that activated the Sensor.
- The communication between the App and Sensor during a scan is a short range Near Field Communication (NFC) method which makes it difficult to interfere with or intercept during transmission. The transmitted data is protected by a proprietary data format, encryption, and memory map. The integrity of transmitted data is ensured by a cyclic redundancy check (CRC) generated by the Sensor and verified by the App. The communication between the App and Sensor for Alarm data is a standard Bluetooth Low Energy (BLE) connection. The pairing of the Sensor to the App is accomplished during activation with an authorized login procedure that uses an Out-of-band key exchange (NFC). This prevents unauthorized devices from connecting to the Sensor.
- The transmitted data is protected by a proprietary data format and encryption. This prevents unauthorized devices from accessing the data if they are within range and intercept the transmission. Under normal operation, the industry standard BLE protocols allow for many users to be in the same vicinity. In the case where the connection is lost due to out-of-range or interference, reconnection is only possible with the authorized App logged in to the same LibreView account that activated the Sensor.

Quality of Service (QoS):

- QoS for the Freestyle Libre 2 Reader and Sensor wireless communications using NFC is assured within the effective range of 1 cm between the Sensor and Reader that is specified to occur within 15 seconds. QoS for the wireless communication using BLE is assured between the Reader and Sensor at 1 meter. If connection is lost between the Reader and Sensor for 5 minutes, the connection lost symbol displays. If connection is lost for 20 minutes, the Reader alerts the user if the alarm is turned on. If connection is lost between the Sensor and the Reader, up to 8 hours of glucose results can be retrieved by performing a scan with the Reader. The Reader is designed to only accept radio frequency (RF) communications from recognized and paired Sensors.

- QoS for the Freestyle Libre 2 App and Sensor wireless communications using NFC is assured within the effective range of 1 cm between the Sensor and smartphone. QoS for the Freestyle Libre 2 App and Sensor wireless communications using BLE is assured at 1 meter. If connection is lost between the App and Sensor for 5 minutes, the available system displays. If connection is lost for 20 minutes, the App alerts the user if the alarm is turned on. If connection is lost between the Sensor and the App, up to 8 hours of glucose results can be retrieved by performing a scan with the App. The App is designed to only accept radio frequency (RF) communications from recognized and paired Sensors.
FreeStyle Libre 2
FLASH GLUCOSE MONITORING SYSTEM

For use with
FreeStyle Libre 2 Sensor and
FreeStyle Libre 2 Plus Sensor

FreeStyle Libre 2 app
A FreeStyle Libre product

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