



FreeStyle *Libre* 2

FLASH GLUCOSE MONITORING SYSTEM



FreeStyle Libre 2 app
A FreeStyle Libre product



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DOC44436 Rev. A 05/21

Interactive Tutorial



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Important information about the FreeStyle Libre 2 System

Important Safety Information

Indications for Use

The FreeStyle Libre 2 Flash Glucose Monitoring System is a continuous glucose monitoring (CGM) device with real time alarms capability indicated for the management of diabetes in persons age 4 and older. It is intended to replace blood glucose testing for diabetes treatment decisions, unless otherwise indicated .

The System also detects trends and tracks patterns and aids in the detection of episodes of hyperglycemia and hypoglycemia, facilitating both acute and long-term therapy adjustments. Interpretation of the System readings should be based on the glucose trends and several sequential readings over time.

The System is also intended to autonomously communicate with digitally connected devices. The System can be used alone or in conjunction with these digitally connected devices where the user manually controls actions for therapy decisions.

Compatible Devices, Apps, and Software

For a list of compatible devices, apps, and software that can be used with the FreeStyle Libre 2 Sensor, please go to:

<https://FreeStyleLibre.us/support/overview.html>

Use of the Sensor with devices, apps, and software that are not listed may cause inaccurate glucose readings.

FreeStyle Libre 2 app is only compatible with certain mobile devices and operating systems. Please check www.FreeStyleLibre.com for more information about device compatibility before upgrading your phone or its operating system.

Contraindications

Automated Insulin Dosing: The System must not be used with automated insulin dosing (AID) systems, including closed loop and insulin suspend systems.



MRI/CT/Diathermy: The System must be removed prior to Magnetic Resonance Imaging (MRI), Computed Tomography (CT) scan, or high-frequency electrical heat (diathermy) treatment. The effect of MRI, CT scans, or diathermy on the performance of the System has not been evaluated. The exposure may damage the Sensor and may impact proper function of the device which could cause incorrect readings.

WARNINGS:

- **Do not ignore symptoms that may be due to low or high blood glucose:** if you are experiencing symptoms that are not consistent with your glucose readings, consult your health care professional.
- Use your blood glucose meter to make diabetes treatment decisions when you see the  symbol during the first 12 hours of wearing a Sensor, if your Sensor glucose reading does not match how you feel, or if the reading does not include a number.
- If you are using the FreeStyle Libre 2 app, you must also have access to a blood glucose monitoring system as the App does not provide one.
- **Choking hazard:** The System contains small parts that may be dangerous if swallowed.

Cautions and Limitations

Below are important cautions and limitations to keep in mind so you can use the System safely. They are grouped into categories for easy reference.

What to know about Alarms:

- For you to receive alarms, they must be on and your device 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.
- To prevent missed alarms, make sure your device has sufficient charge. If using the Reader, make sure that sounds 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.
- 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.

What to know before using the System:

- Review all product information before use.
- Take standard precautions for transmission of blood borne pathogens to avoid contamination.
- Make sure that your devices and Sensor kits are kept in a safe place, and maintain your devices under your control during use. This is important to help prevent anyone from accessing or tampering with the System.

Who should not use the System:

- **Do not use the System in people less than 4 years of age.** The System is not cleared for use in people under 4 years of age.
- **Do not use the System if you are pregnant, on dialysis, or critically ill.** The System is not cleared for use in these groups and it is not known how different conditions or medications common to these populations may affect performance of the System.
- Performance of the System when used with other implanted medical devices, such as pacemakers, has not been evaluated.

What should you know about wearing a Sensor:

- Wash application site on the back of your upper arm 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. Carefully preparing the site according to these instructions will help the Sensor stay on your body for the full 14 day wear period and help prevent it from falling off early.
- The Sensor can be worn for up to 14 days. Remember to always have your next Sensor available before your current one ends so you can keep getting your glucose readings.
- You must scan the Sensor to get your real-time current glucose level as both the Reader and App will not provide this information without a scan.
- In the event that your Sensor stops working and you do not have another Sensor readily available, you must use an alternate method to measure your glucose levels and inform your treatment decisions.
- The System is designed to detect certain conditions which may occur where the Sensor is not working as intended and shut it off, telling you to replace your Sensor. This may occur if the Sensor gets knocked off from the skin or if the System detects that the Sensor may not be performing as intended. Contact Customer Service if you receive a Replace Sensor message before the end of the 14 day wear period. Customer Service is available at 1-855-632-8658 7 Days a Week from 8AM to 8PM Eastern Standard Time.
- Some individuals may be sensitive to the adhesive that keeps the Sensor attached to the skin. If you notice significant skin irritation around or under your Sensor, remove the Sensor and stop using the System. Contact your health care professional before continuing to use the System.

- 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 period. Customer Service is available at 1-855-632-8658 7 Days a Week from 8AM to 8PM Eastern Standard Time.
- Do not reuse Sensors. The Sensor and Sensor Applicator are designed for single use. Reuse may result in no glucose readings and infection. Not suitable for re-sterilization. Further exposure to irradiation may cause unreliable low results.
- If a Sensor breaks inside your body, call your health care professional.

 **How to Store the Sensor Kit:**

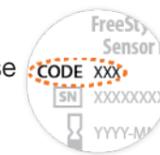
- Store the Sensor Kit between 36°F and 82°F. Storage outside of this range may cause inaccurate Sensor glucose readings.
- If you suspect that the temperature may exceed 82°F (for example, in an un-airconditioned home in summer), you should refrigerate your Sensor Kit. Do not freeze your Sensor Kit.
- Store your Sensor Kit in a cool, dry place. Do not store your Sensor Kit in a parked car on a hot day.
- Store the Sensor Kit between 10-90% non-condensing humidity.

 **When not to use the System:**

- Do NOT use if the Sensor Kit package, Sensor Pack or Sensor Applicator appear to be damaged or already opened due to risk of no results and/or infection.
- Do NOT use if Sensor Kit contents are past expiration date.
- Do NOT use if the Reader appears to be damaged due to risk of electric shock and/or no results.

 **What to know before you Apply the Sensor:**

- 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 your 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.
- Wash application site on the back of your upper arm 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. Carefully preparing the site according to these instructions will help the Sensor stay on your body for the full 14 day wear period and help prevent it from falling off early.
- Clean hands prior to Sensor handling/insertion to help prevent infection.
- Change the application site for the next Sensor application to prevent discomfort or skin irritation.
- Only apply the Sensor to the back of the upper arm. If placed in other areas, the Sensor may not function properly.
- Select an appropriate Sensor site to help the Sensor stay attached to the body and prevent discomfort or skin irritation. Avoid areas with scars, moles, stretch marks, or lumps. Select an area of skin that generally stays flat during normal daily activities (no bending or folding). Choose a site that is at least 1 inch away from an insulin injection site.



 **When is Sensor Glucose different from Blood Glucose:**

- Physiological differences between the interstitial fluid and capillary blood may result in differences in glucose readings between the System and results from a fingerstick test using a blood glucose meter. Differences in glucose readings between interstitial fluid and capillary blood may be observed during times of rapid change in blood glucose, such as after eating, dosing insulin, or exercising.

 **What to know about X-Rays:**

- The Sensor should be removed prior to exposing it to an X-ray machine. The effect of X-rays on the performance of the System has not been evaluated. The exposure may damage the Sensor and may impact proper function of the device to detect trends and track patterns in glucose values during the wear period.

 **When to remove 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 readings, which may not match how you feel. Check to make sure your Sensor has not come loose. If it has come loose, remove it, apply a new one, and contact Customer Service.
- If you believe your glucose readings are not correct or are inconsistent with how you feel, perform a blood glucose test on your finger to confirm your glucose. If the problem continues, remove the current Sensor, apply a new one, and contact Customer Service. Customer Service is available at 1-855-632-8658 7 Days a Week from 8AM to 8PM Eastern Standard Time.

 **What to know about the Reader's Built-in Meter:**

- The FreeStyle Libre 2 Reader has a built-in blood glucose meter that is designed to be used only with FreeStyle Precision Neo blood glucose test strips and MediSense Glucose and Ketone Control Solution. Using other test strips with the Reader's built-in meter will produce an error or cause the Reader's built-in meter to not turn on or start a test. The Reader's built-in meter does not have ketone testing functionality.
- 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.
- See Using the Reader's Built-in meter section of the User's Manual for additional important information on the use of the Reader's built-in meter.

 **What to know about charging your Reader:**

- Be sure to select a location for charging that allows the power adapter to be easily unplugged. Do NOT block access to the charger due to the potential risk of electrical shock.
- The maximum surface temperature of the Reader and/or the power adapter could go as warm as 49 °C when it's charging or 47 °C during normal use. 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.

 **What to know about the System:**

- The FreeStyle Libre 2 System is intended for use by a single person. It must not be used by more than one person due to the risk of misinterpreting glucose information.
- FreeStyle Libre 2 app and FreeStyle Libre 2 Readers do not share data.

Interfering Substances:

Taking ascorbic acid (vitamin C) supplements while wearing the Sensor may falsely raise Sensor glucose readings. Taking more than 500 mg of ascorbic acid per day may affect the Sensor readings which could cause you to miss a severe low glucose event. Ascorbic acid can be found in supplements including multivitamins. Some supplements, including cold remedies such as Airborne® and Emergen-C®, may contain high doses of 1000 mg of ascorbic acid and should not be taken while using the Sensor. See your health care professional to understand how long ascorbic acid is active in your body.



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Acknowledge >



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.

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Product Overview

[System Overview](#)[Getting to Know the Reader](#)[Getting to Know FreeStyle Libre 2 app](#)[Sensor Kit](#)[Sensor Glucose Readings](#)

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.
- 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.

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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. The Reader and App only work with FreeStyle Libre 2 Sensors and cannot be used with other 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.
- 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.

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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.

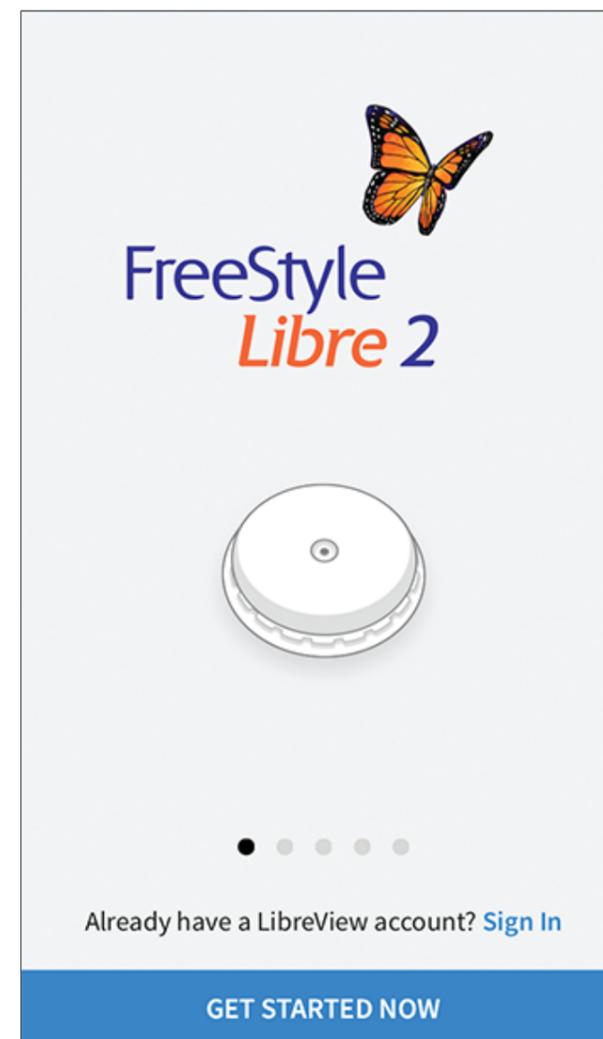
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Getting to Know FreeStyle Libre 2 app

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 iOS app is available for download from the App Store.

The FreeStyle Libre 2 app is only compatible with certain mobile devices and operating systems. Please check www.FreeStyleLibre.com for more information about device compatibility before upgrading your phone or its operating system.

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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, 5mm-long filament that is inserted just under the skin. The Sensor can be worn for up to 14 days.

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



Sensor Applicator
Applies the Sensor to the body.

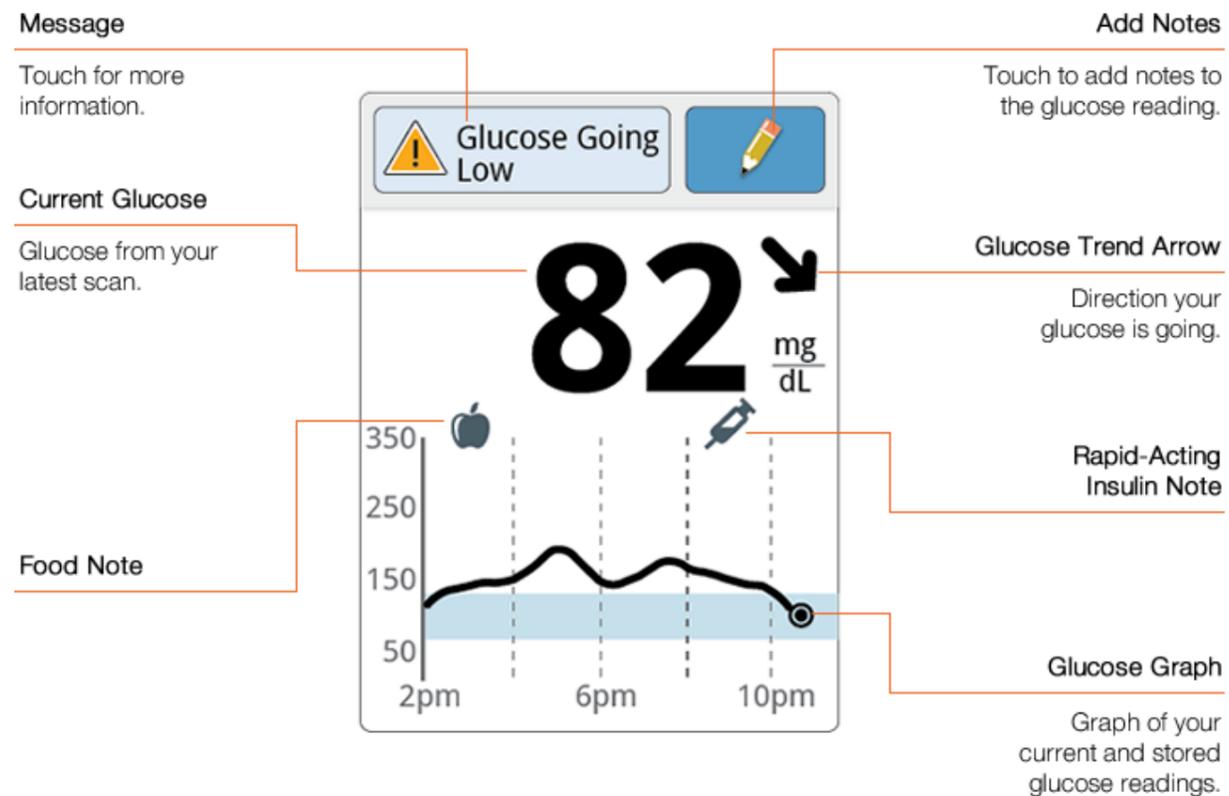
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Sensor Glucose Readings

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

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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.

Food Note





Reader

[First Time Reader Setup](#)[Reader Home Screen](#)[Setting Alarms](#)[Setting Reminders](#)[Changing the Reader Settings](#)

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 how to understand the **Glucose Trend Arrow**. Touch **next** to move through the next topics.

When the setup is complete, touch **done** to return to the Home screen.

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First Time Reader Setup

Complete the setup to use the Reader to check your Sensor glucose readings 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 how to understand the **Glucose Trend Arrow**. Touch **next** to move through the next topics.

When the setup is complete, touch **done** to return to the Home screen.



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First Time Reader

Complete the setup to use the Reader to get accurate glucose readings or use the Reader to get accurate glucose readings.

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 how to understand the **Glucose Trend Arrow**. Touch **next** to move through the next topics.

When the setup is complete, touch **done** to return to the Home screen.

Note



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



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First Time Reader

Complete the setup to use the Reader to get accurate glucose readings or use the Reader to get accurate glucose readings.

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 how to understand the **Glucose Trend Arrow**. Touch **next** to move through the next topics.

When the setup is complete, touch **done** to return to the Home screen.

Caution



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



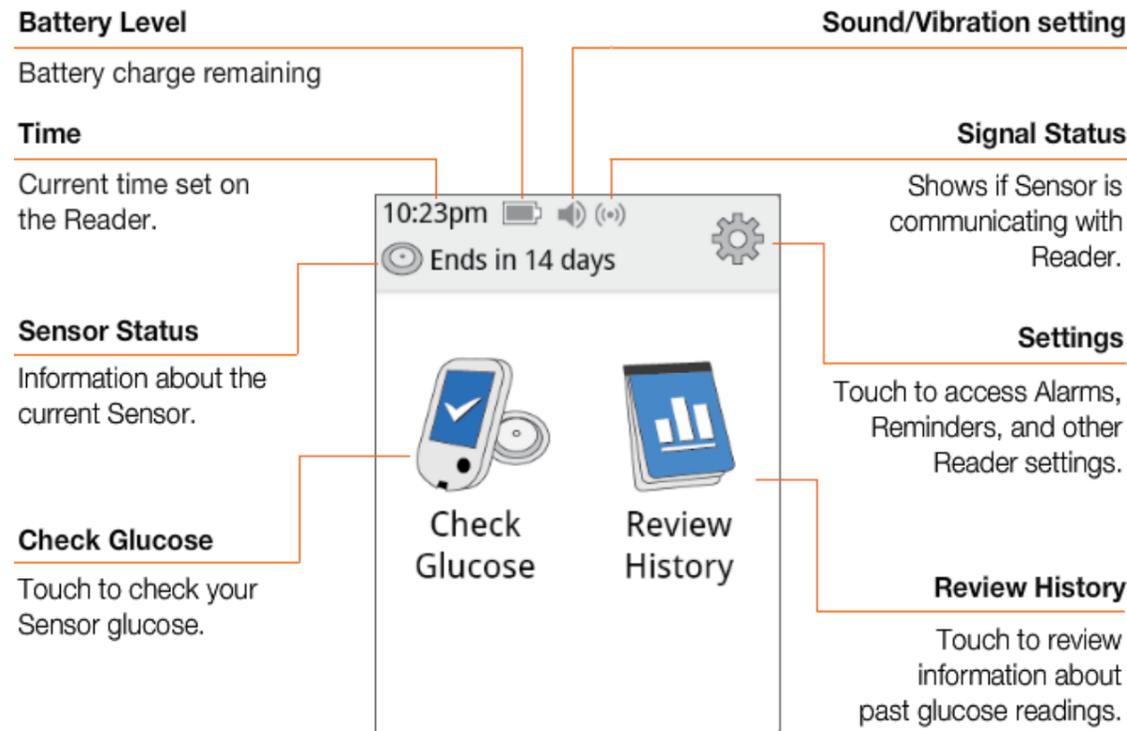
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Reader Home Screen

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.



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  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.

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Setting Alarms

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

IMPORTANT: Glucose alarms are for some people. For example, those with hypoglycemia or a history of severe hypoglycemia should not turn alarms off or change their settings without consulting a health care professional.

How to do it:

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

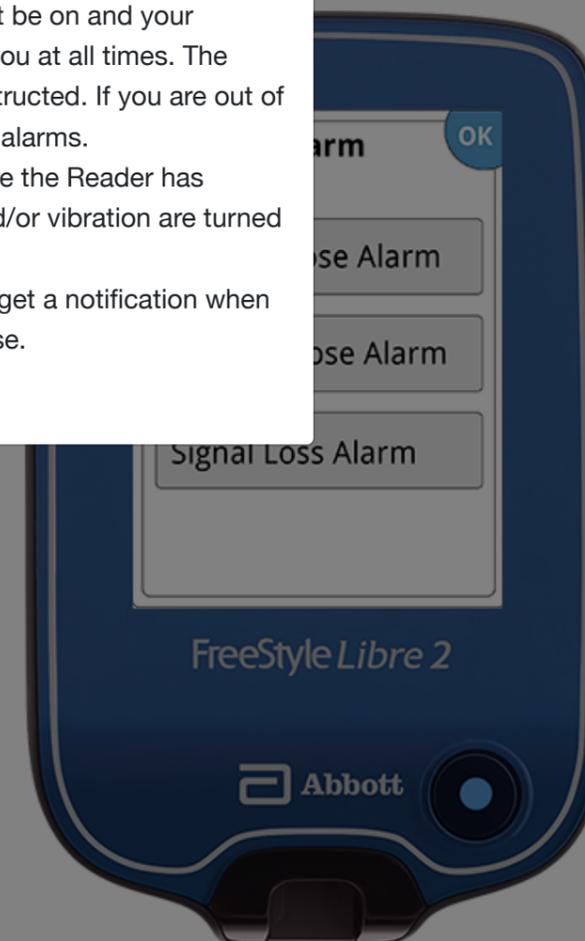
Touch **Change Alarm Settings** and select the alarm you want to set or turn off.

Touch **done** to save.

When you are finished setting your alarms, touch **OK**. The Alarms 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.

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.

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Setting Reminders

Use Reminders to help you remember to check 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.

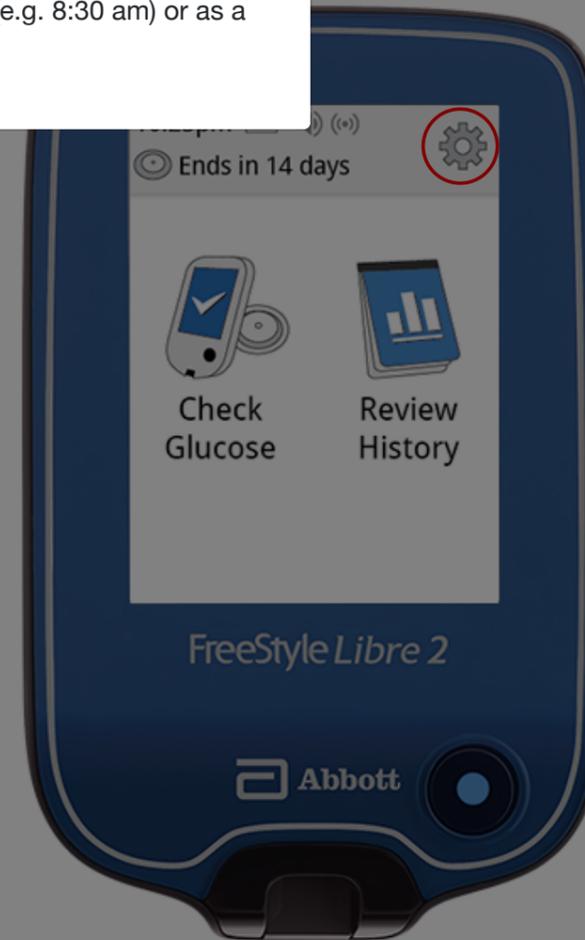
Touch **save** to save all Reminder settings.

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

Touch **done** to return to the Home Screen.

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.

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App

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- App Home Screen >
- Setting Alarms >
- Setting Reminders >
- Changing App Settings >

Confirm your country and tap **NEXT**.

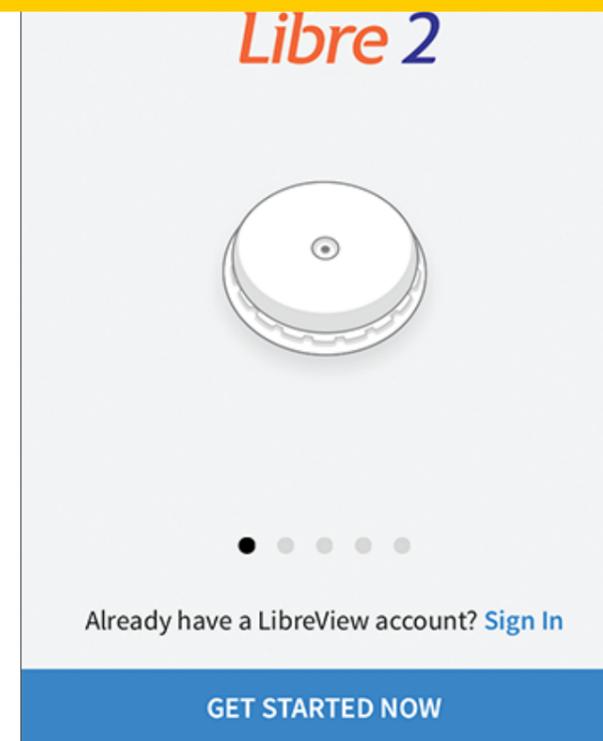
You need a LibreView account to use the App. Follow onscreen instructions to review legal information and create a new account or login to your existing account. You can continue using an existing Sensor with the App on new compatible phone that is logged into the same LibreView account.

LibreView Data Management Software is developed by Newyu, Inc. Use of FreeStyle Libre 2 app requires registration with LibreView, a service provided by Abbott and Newyu, Inc.

Confirm your glucose unit of measure and tap **NEXT**.

Select how you count carbohydrates and tap **NEXT**. 

The App now displays some important information. Accept the requested permissions. Tap **NEXT** to move through the screens.





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 and open the App.

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

Confirm your country and tap **NEXT**.

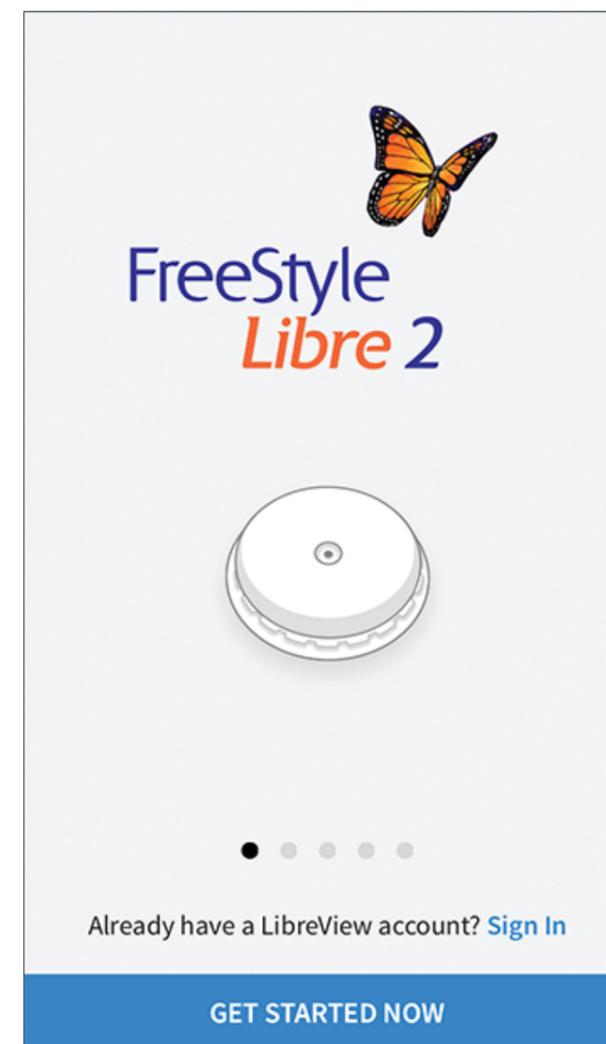
You need a LibreView account to use the App. Follow onscreen instructions to review legal information and create a new account or login to your existing account. You can continue using an existing Sensor with the App on new compatible phone that is logged into the same LibreView account.

LibreView Data Management Software is developed by Newyu, Inc. Use of FreeStyle Libre 2 app requires registration with LibreView, a service provided by Abbott and Newyu, Inc.

Confirm your glucose unit of measure and tap **NEXT**.

Select how you count carbohydrates and tap **NEXT**. 

The App now displays some important information. Accept the requested permissions. Tap **NEXT** to move through the screens.



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First Time App Set

How to do it:

Check that your smartphone is connected to the internet (Wi-Fi or cellular). Download FreeStyle Libre 2 from the App Store and open the App.

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

Confirm your country 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 new compatible phone that is logged into the same LibreView account.

LibreView Data Management Software is developed by Newyu, Inc. Use of FreeStyle Libre 2 app requires registration with LibreView, a service provided by Abbott and Newyu, Inc.

Confirm your glucose unit of measure and tap **NEXT**.

Select how you count carbohydrates and tap **NEXT**.

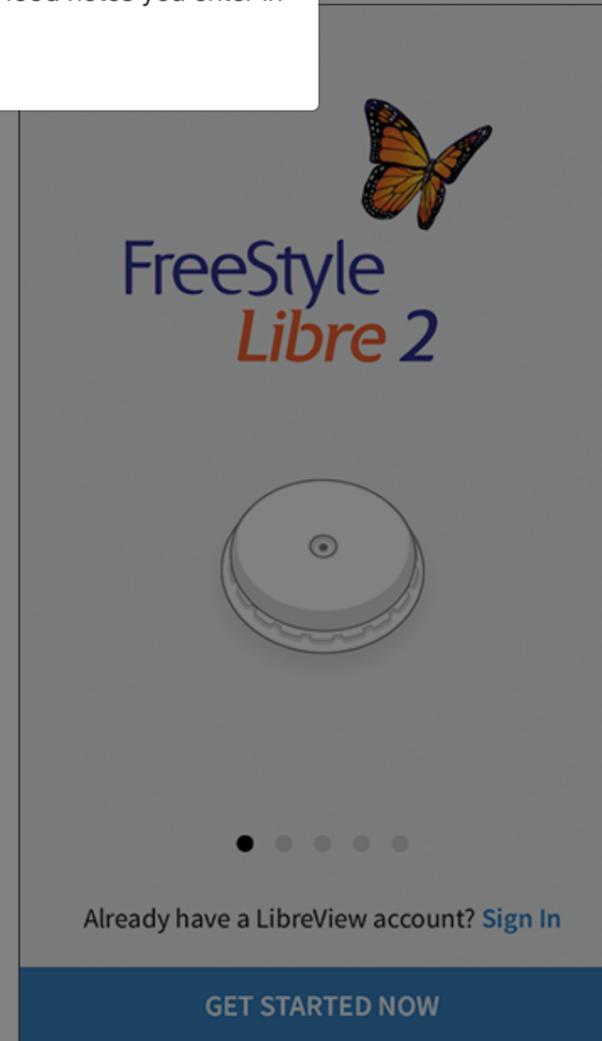


The App now displays some important information. Accept the requested permissions. Tap **NEXT** to move through the screens.

Note



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



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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**.

iPhone

Main Menu

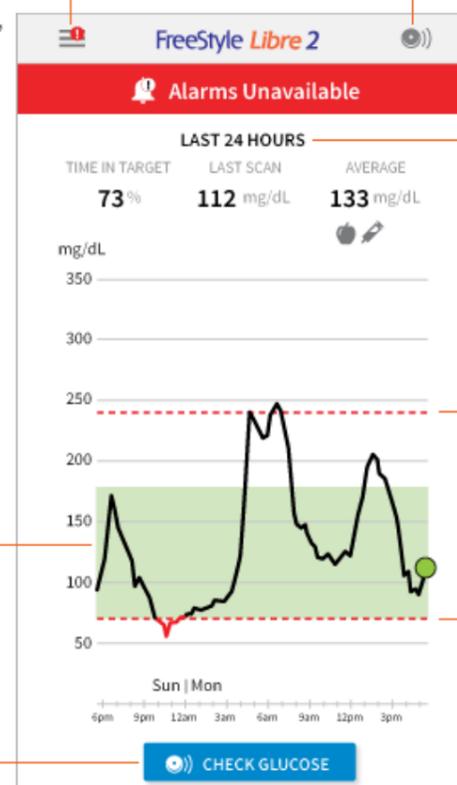
Tap to access the Home Screen, Alarms, Logbook, other history options, and Connected Apps. You can also access Settings, Help and other information.

Glucose Graph

Graph of your stored Sensor glucose readings.

Scan Button

Tap this button or the symbol at the top of the screen when you're ready to scan your Sensor.



Scan Button

Tap this symbol or the button at the bottom of the screen when you're ready to scan your Sensor.

Glucose Information

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

High Glucose Alarm Level

Low Glucose Alarm Level



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Setting Optional Alarms

When in range of the App, your Sensor automatically communicates with the App to give you several types of alarms. These alarms are on by default.

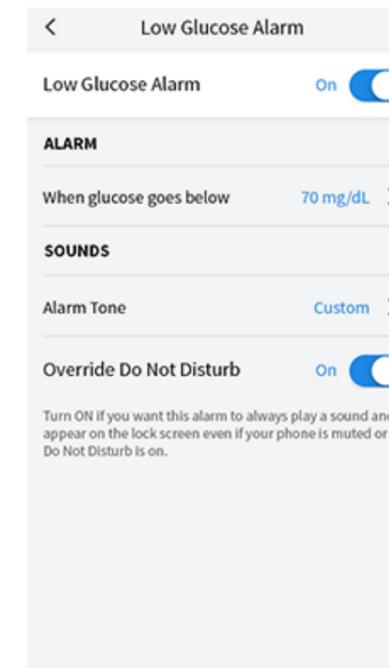
How to do it:

Go to the Main Menu and tap **Alarms**.



Select the optional alarm you want to set or turn off.

Tap the back button to return to the main alarms setting screen.



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Setting

When in range
communicate
These alarms

How to do it:

Go to the Mai

Select the opt

Tap the back

FreeStyle
Libre
FLASH GLUCOSE MONITORING SYSTEM

Caution



- 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.
- 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.
- Disable your phone's automatic operating system updates. After an operating system update, open your App and check your device settings to make sure it's working properly.
- Some operating system features may impact your ability to receive alarms. For example, if you use the iOS Screen Time feature, add Libre 2 to the list of Always Allowed apps to ensure that you receive alarms.

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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.



Add Reminder

Reminder Name
Exercise

2 57
3 58
4 59 AM
5 00 PM
6 01
7 02
8 03

Repeating

All Sunday
 Monday Tuesday
 Wednesday Thursday
 Friday Saturday

CANCEL DONE

(Example screen displayed for iPhone)



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Setting Reminders

Use Reminders to help you remember to check 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.

Note ⓘ

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.

Reminder

2 57
3 58
4 59 AM
5 00 PM
6 01
7 02
8 03

Repeating

All Sunday
 Monday Tuesday
 Wednesday Thursday
 Friday Saturday

CANCEL DONE

(Example screen displayed for iPhone)





Setting Reminders

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

How to do it:

Go to the Main Menu and tap **Reminders**.

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.

Reminder

6 01 AM

7 02 PM

8 03

Repeating

<input type="checkbox"/> All	<input type="checkbox"/> Sunday
<input checked="" type="checkbox"/> Monday	<input type="checkbox"/> Tuesday
<input checked="" type="checkbox"/> Wednesday	<input type="checkbox"/> Thursday
<input checked="" type="checkbox"/> Friday	<input type="checkbox"/> Saturday

CANCEL **DONE**

(Example screen displayed for iPhone)





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 only hear 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. Tap **SAVE** when you are done.

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Sensor

- Application Site Selection >
- Preparing the Application Site >
- Preparing the Sensor Applicator >
- Applying Your Sensor >
- Starting Your Sensor >
- Removing Your Sensor >

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



Only apply Sensor to the back of your upper arm.



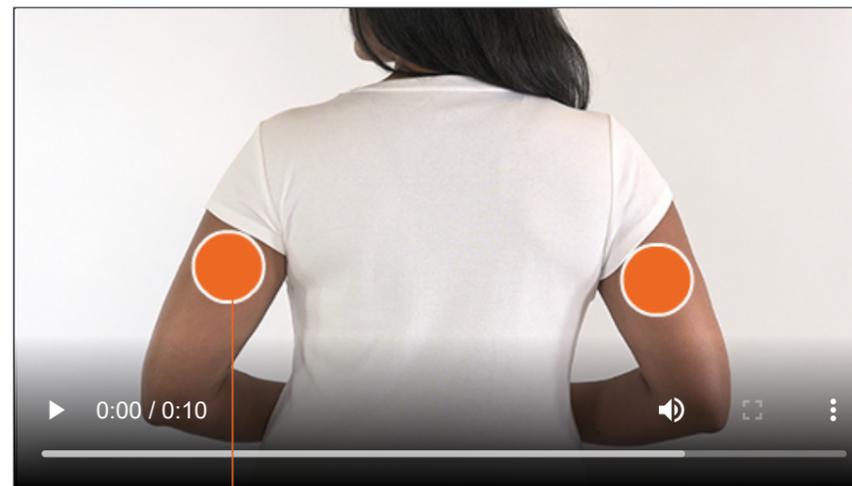
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Application Site Selection

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.



Only apply Sensor to the back of your upper arm.

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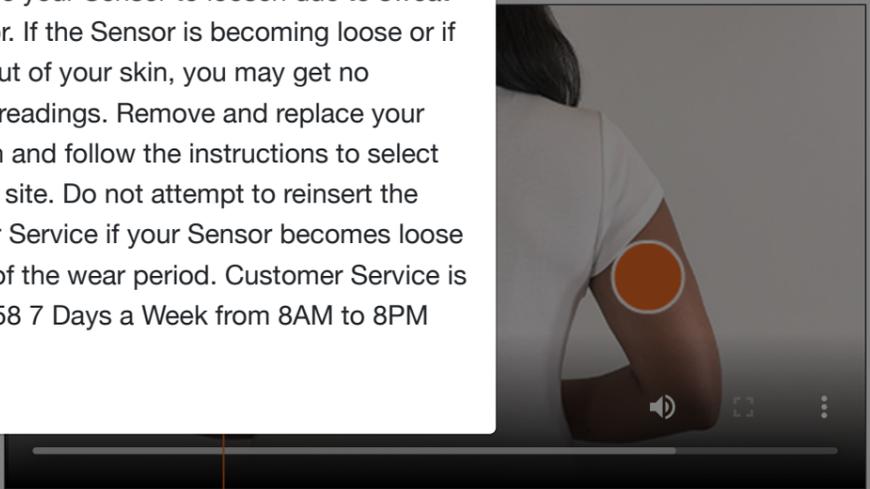
Application Site Se

Apply Sensors only on the back of
arm. If placed in other areas, the S
function properly and could give in
readings. Avoid areas with scars, n
marks, or lumps.

Select an area of skin that general
during your normal daily activities (c
folding). Choose a site that is at lea
cm) away from an insulin injection s
discomfort or skin irritation, you sh
different site other than the one me
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 period. Customer Service is available at 1-855-632-8658 7 Days a Week from 8AM to 8PM Eastern Standard Time.

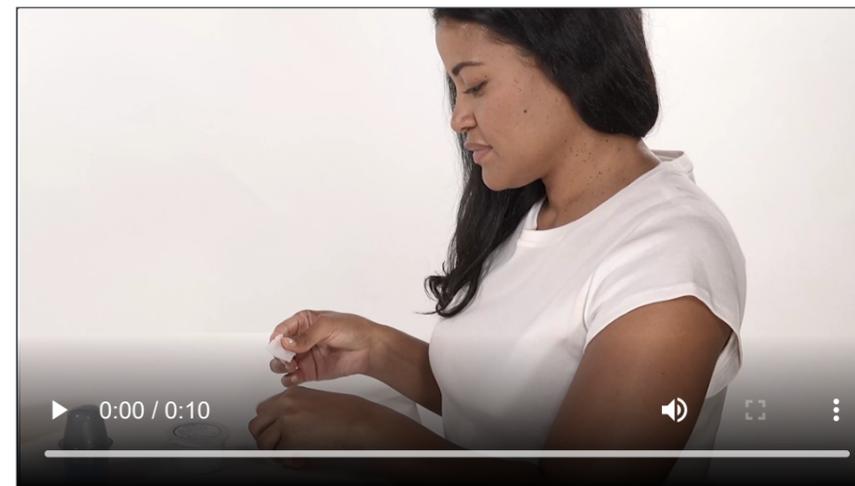


Only apply Sensor to the back of your upper arm.



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.



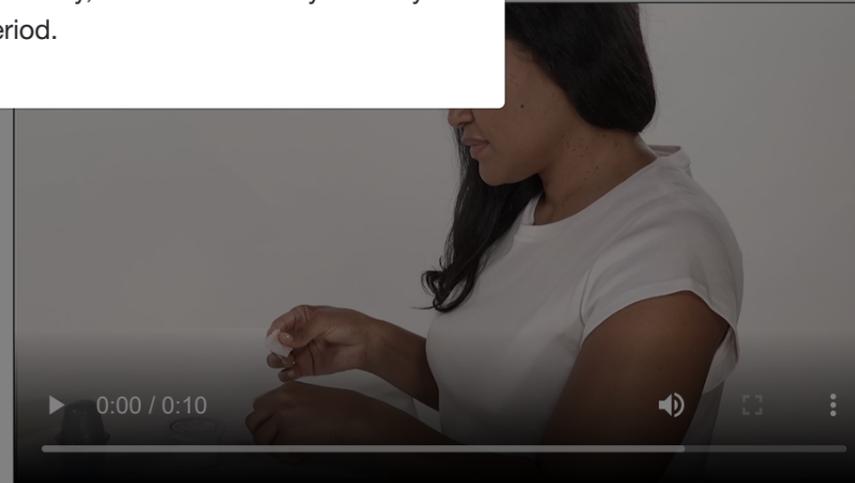


Preparing the App

Wash application site using a plain water washcloth. Then clean with an alcohol wipe. Thoroughly dry the site to remove any oily residue that may prevent the Sensor from sticking properly. Allow site to air dry completely before proceeding.

Note ⓘ

The area **MUST** be clean and dry, or the Sensor may not stay on for the full 14 day wear period.



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.

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Preparing the Sensor

To ensure glucose readings are accurate, the Sensor Pack and Sensor Applicator must be used together.

How to do it:

Open the Sensor Pack by peeling the cap off the top.

Unscrew the cap from the Sensor Pack 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.

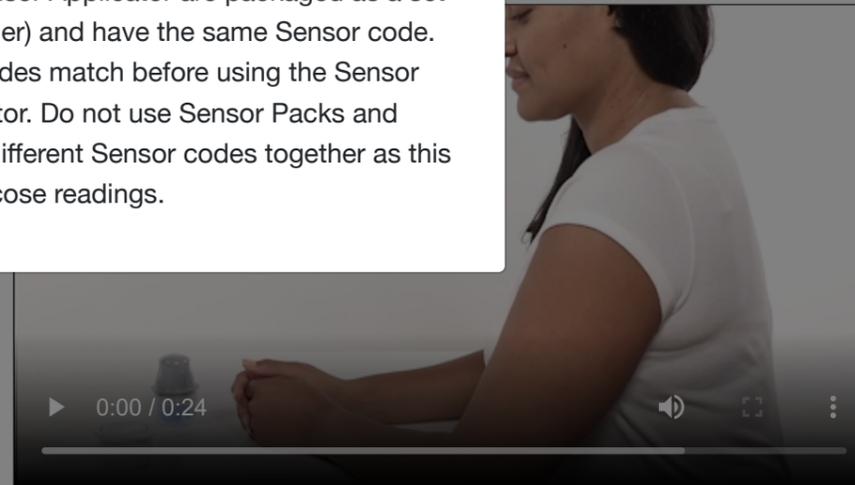
The Sensor Applicator is prepared and ready to apply the Sensor.



Caution



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.



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Preparing the Sensor

To ensure glucose readings are accurate, inspect the Sensor Pack and Sensor Applicator before use.

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.

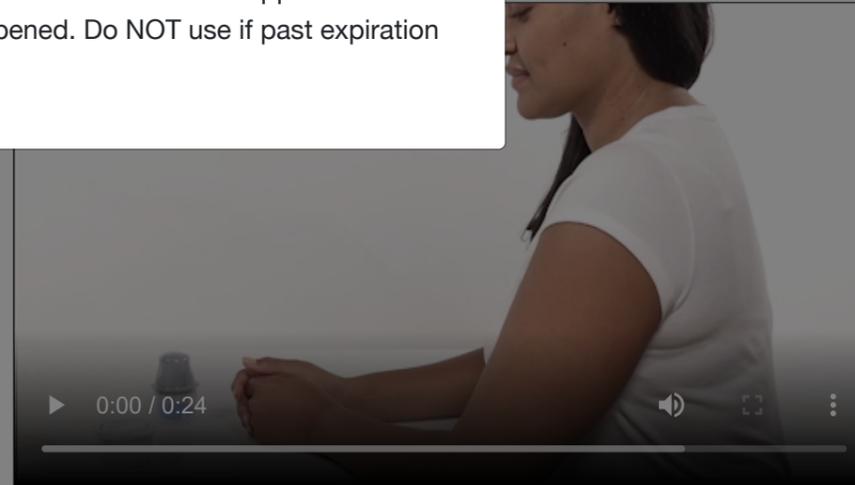
The Sensor Applicator is prepared and ready to apply the Sensor. 



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.



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Preparing the Sensor

To ensure glucose readings are accurate, follow these steps to prepare the Sensor Pack and Sensor Applicator.

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.

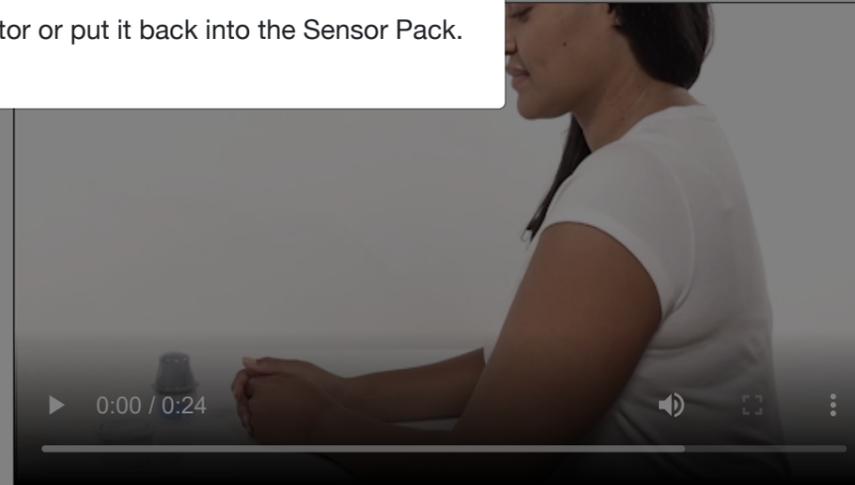
Lift the Sensor Applicator out of the Sensor Pack.

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

Caution



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



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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.

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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.

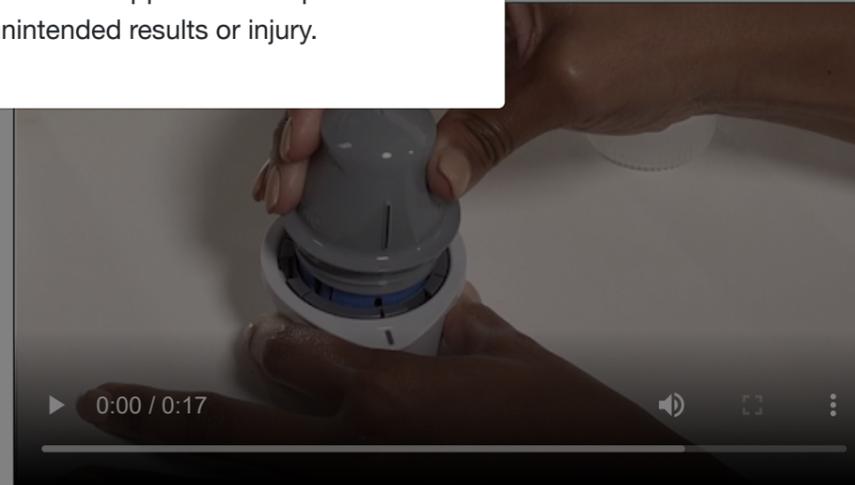
Gently pull the Sensor Applicator away from your body. The Sensor should now be attached to your skin. 

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:

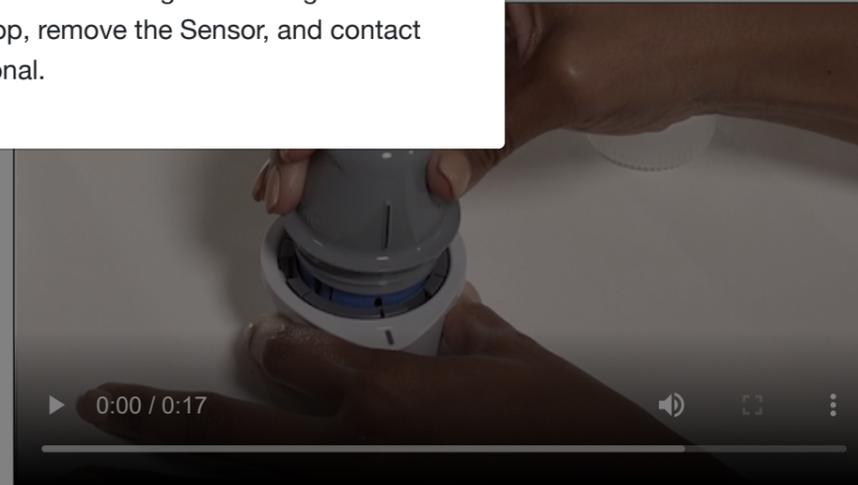
Place the Sensor Applicator over the site and push down firmly to apply to your body.

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 within 1.5 inches (4 cm) of 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.

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Starting Your Sensor

Before you start your Sensor, choose the Reader you want to use. If you start the Sensor and 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**.

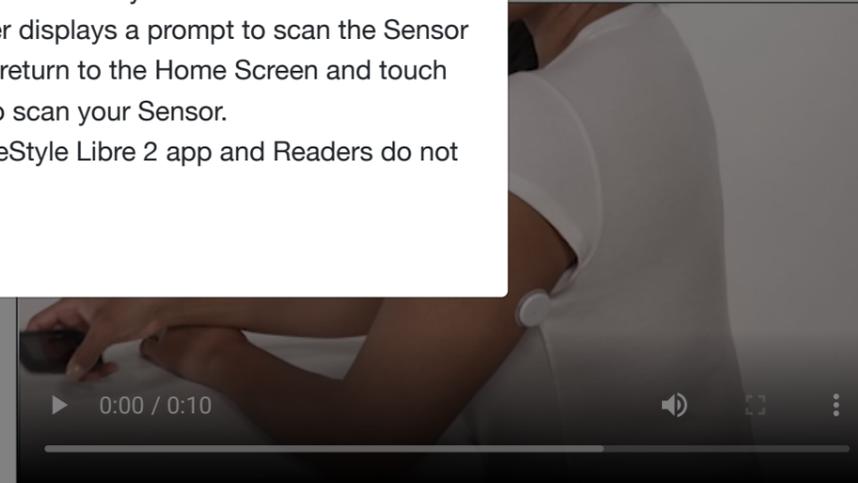
Hold the Reader within 1.5 inches (4 cm) of the Sensor to scan it. This starts your Sensor. If sounds are turned on, the Reader beeps when the Sensor has been successfully activated. The Sensor can be used to check your glucose after the start-up period.



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.



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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 alarms.

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.

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Starting Your Sensor

Before you start your Sensor, choose how you want to use it. If you start the Sensor with the Reader, use the Reader to check your glucose.

You can either tap the blue box on the Home Screen or  at the top right.

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.



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Starting Your Sensor

Before you start your Sensor, choose the Reader you want to use. If you start the Sensor with the Reader, you can use the Reader to check your glucose.

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.

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.



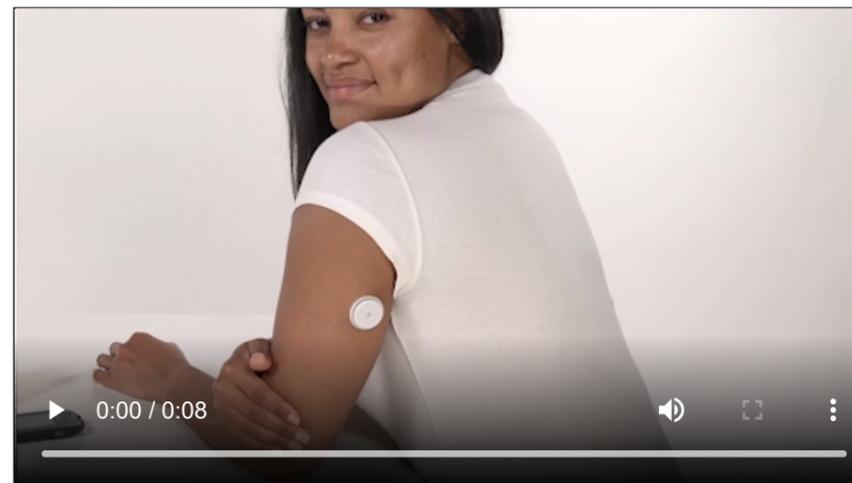
Removing Your Sensor

The Sensor automatically stops working after 14 days 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 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:

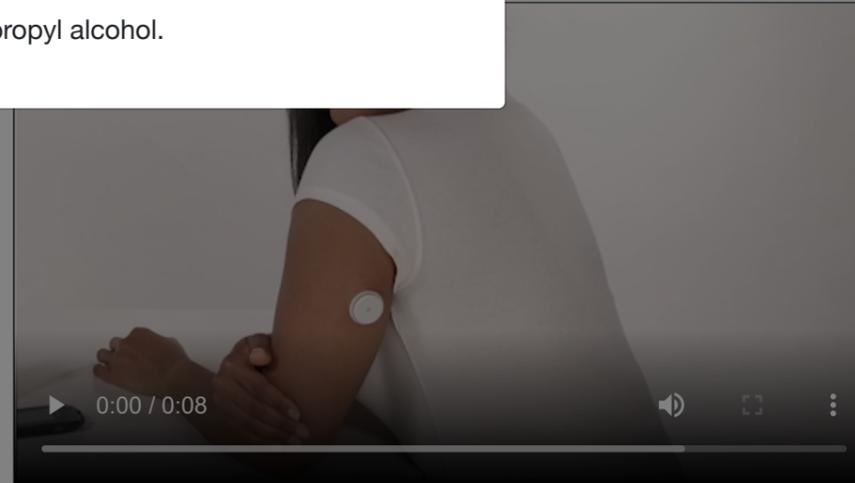
Pull up the edge of the adhesive that keeps your Sensor attached to your skin. Slowly peel away from your skin in one motion.

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

Note



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



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Product Use

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- Understanding Sensor Readings - App >
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- Treatment Decisions Guide >
- Treatment Decisions Guide - Knowledge Check >
- Checking Glucose with a Test Strip >
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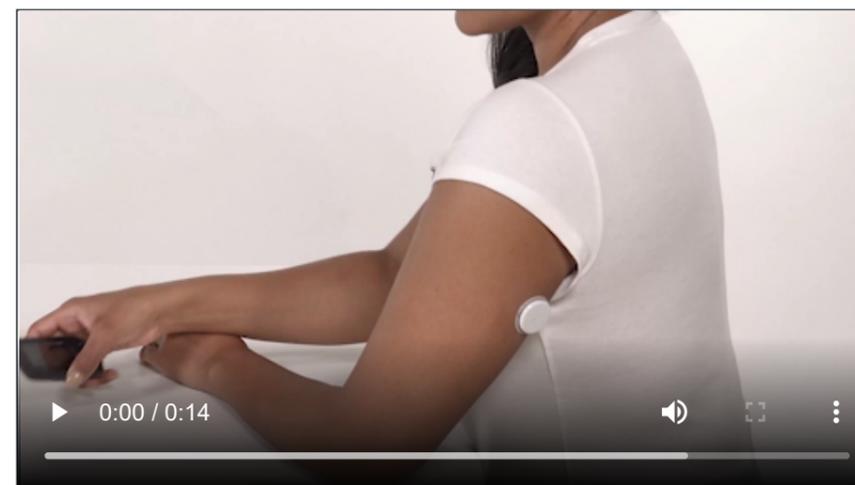
Checking Glucose with a Sensor

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 within 1.5 inches (4 cm) of 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.



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Checking Glucose

How to do it with the Reader:

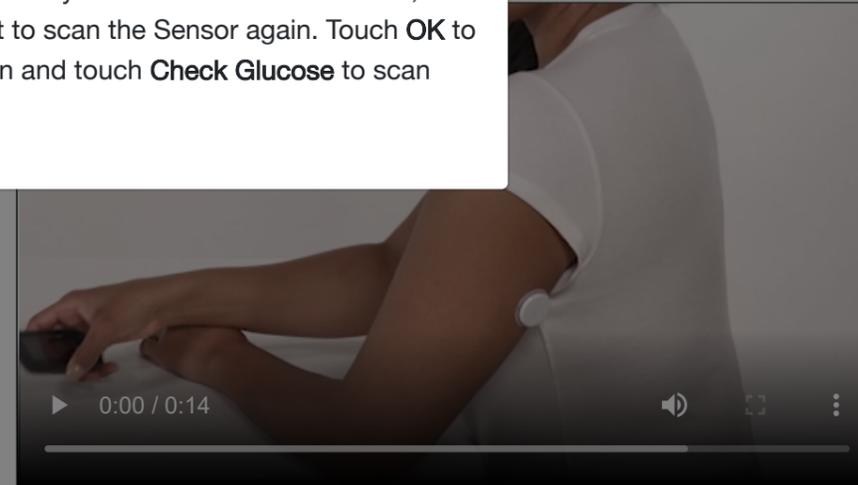
Press the Home Button to turn on the Reader. Touch **Check Glucose** on the Home Screen.

Hold the Reader within 1.5 inches (4 cm) of 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.

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.



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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 within 1.5 inches (4 cm) of 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.

Play 



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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.

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Checking Glucose

How to do it with the App:

iPhone

Tap the scan button .

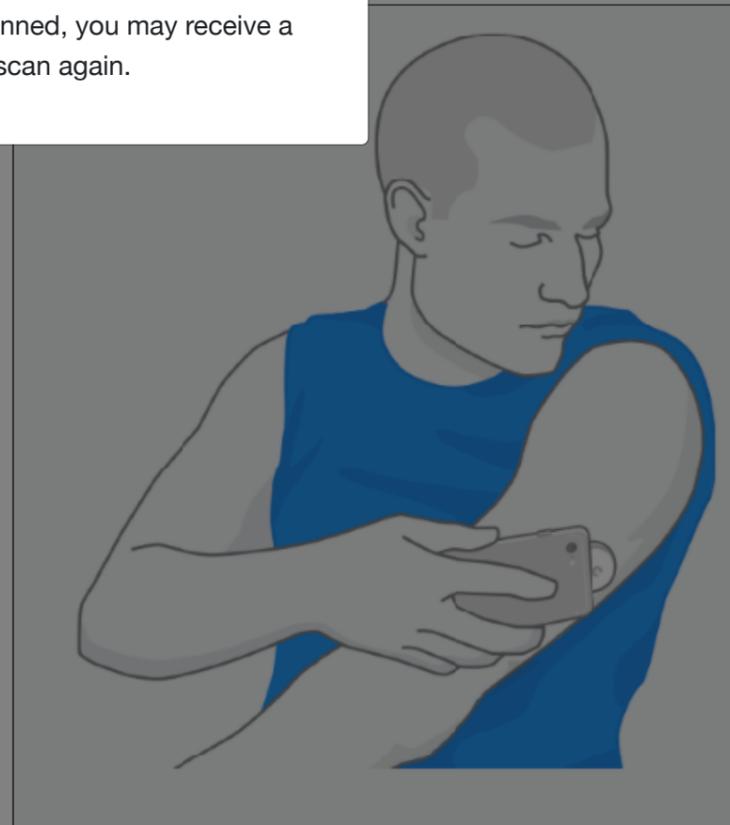
Hold the top of your iPhone near the Sensor. Hold still until you hear a tone and/or feel a vibration. This completes the scan.

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

Note



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



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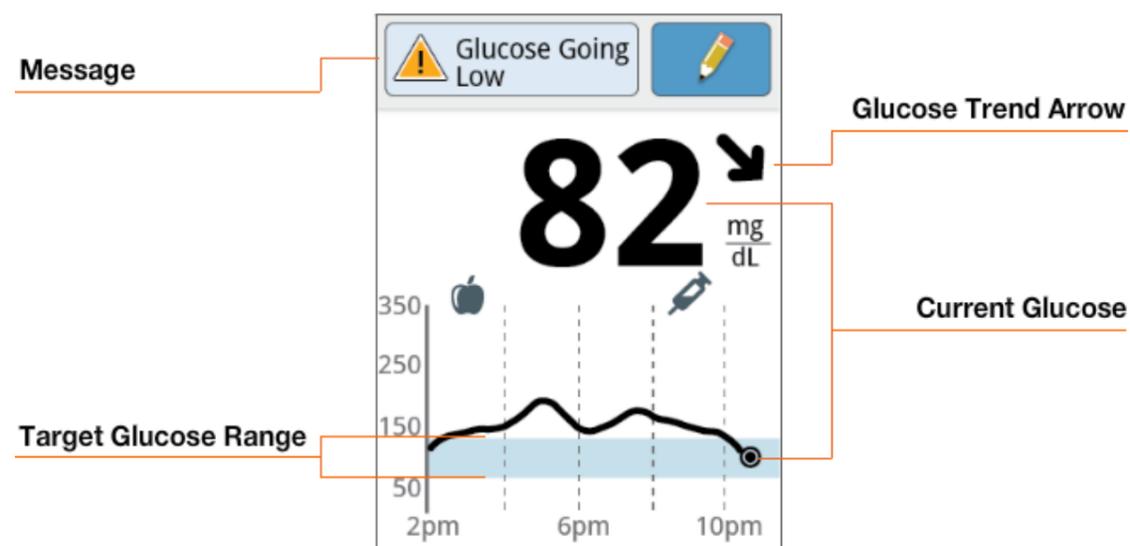


Understanding Sensor Readings - Reader

[Sensor Glucose Reading](#)[Trend Arrows](#)[Going High/Low Reading](#)[High/Low Reading](#)[HI/LO Reading](#)

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.

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Understanding Sensor Readings - Reader

[Sensor Glucose Reading](#)[Trend Arrows](#)[Going High/Low Reading](#)[High/Low Reading](#)[HI/LO Reading](#)

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)

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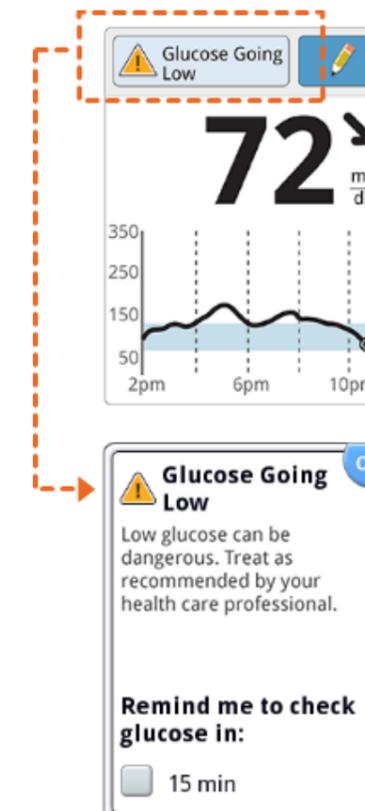
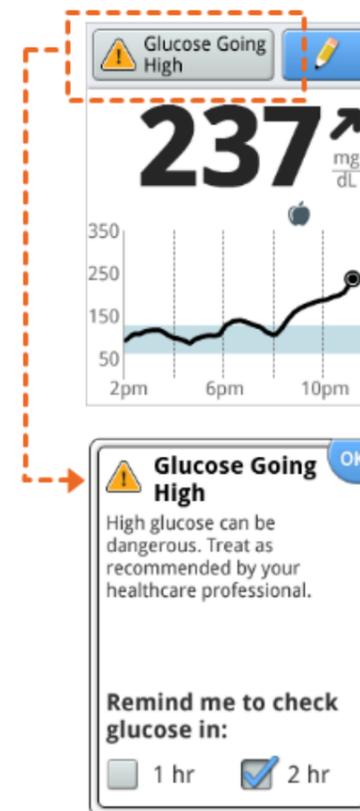
Understanding Sensor Readings - Reader

[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 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.





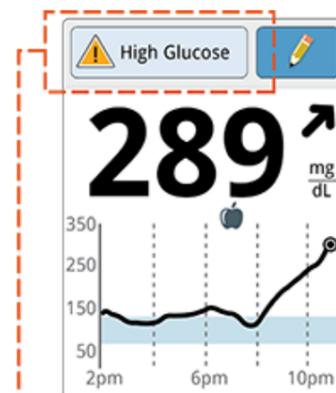
Understanding Sensor Readings - Reader

[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 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.

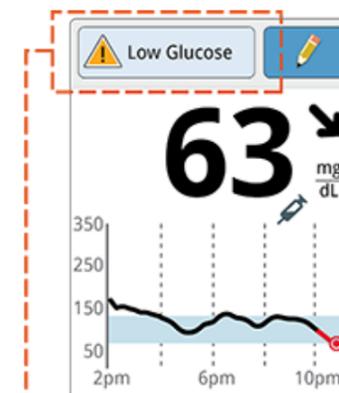


 **High Glucose** OK

High glucose can be dangerous. Treat as recommended by your healthcare professional. Consider checking your ketone.

Remind me to check glucose in:

1 hr 2 hr



 **Low Glucose** OK

Low glucose can be dangerous. Treat as recommended by your healthcare professional.

Remind me to check glucose in:

15 min.



Understanding Sensor Readings - Reader

[Sensor Glucose Reading](#)[Trend Arrows](#)[Going High/Low Reading](#)[High/Low Reading](#)[HI/LO Reading](#)

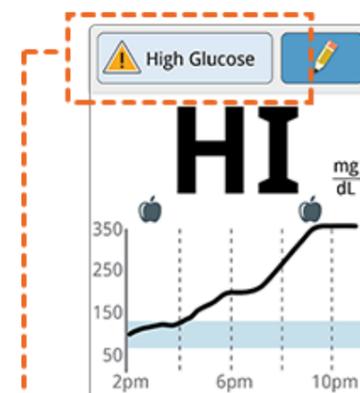
If **LO** appears on the Reader, your reading is lower than 40 mg/dL.

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.

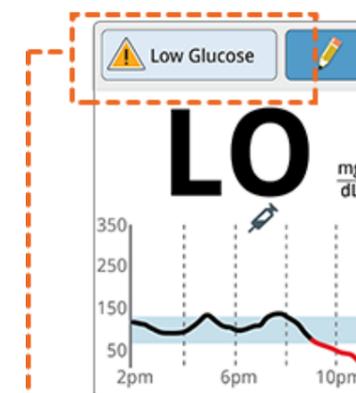
Note:

- 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.



High Glucose OK

High glucose can be dangerous. Check your glucose again and treat as recommended by your health care professional. Consider checking your ketone.



Low Glucose OK

Low glucose can be dangerous. Check your glucose again and treat as recommended by your health care professional.



Understanding Sensor Readings - App

[Sensor Glucose Reading](#)[Trend Arrows](#)[Going High/Low Reading](#)[High/Low Reading](#)[HI/LO Reading](#)

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

[Sensor Glucose Reading](#)[Trend Arrows](#)[Going High/Low Reading](#)[High/Low Reading](#)[HI/LO Reading](#)

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)

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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 touch 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.

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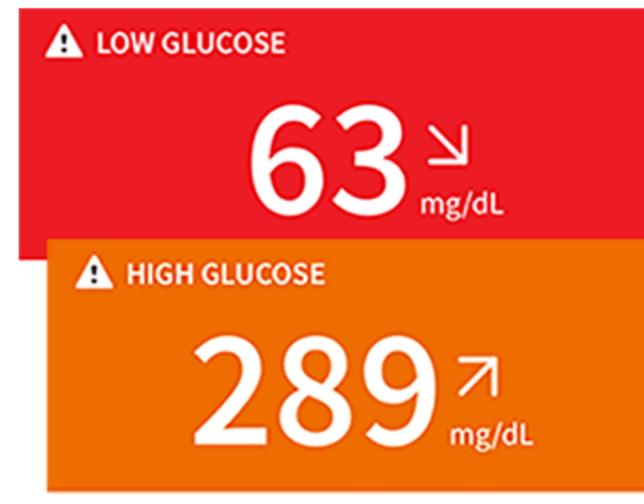
Understanding Sensor Readings - App

[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 touch 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](#)

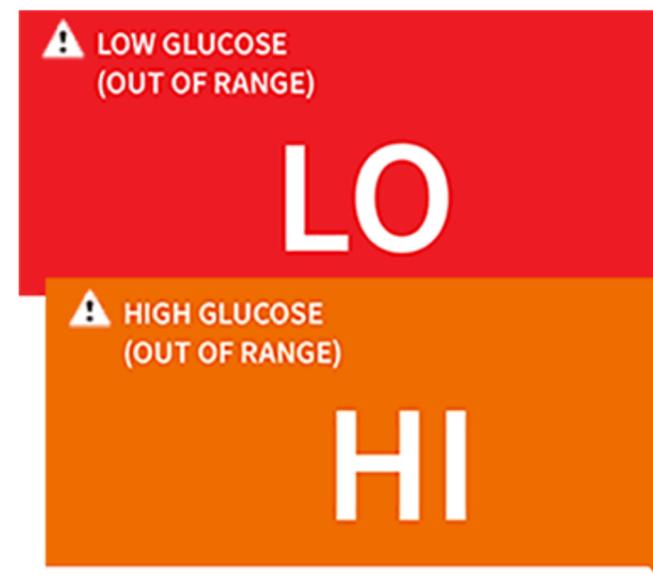
If **LO** appears, your reading is lower than 40 mg/dL.

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

You can touch 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.

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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:



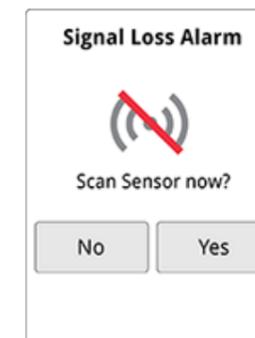
Low and High Glucose Alarms:

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 Alarms

When in range, your Sensor automatically sends glucose data to the Reader. Alarms section for information on settings.

How to do it with the Reader:

Low and High Glucose Alarms:

Touch **Dismiss Alarm & Check Glucose** on the Home Button to dismiss the alarm and scan 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 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.
- Alarms you receive do not include your glucose reading so you must scan your Sensor to check your glucose.

Alarms are on by default. See Settings for more information.

arm

check

Signal Loss Alarm



Scan Sensor now?

No

Yes



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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 feet 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)





Using C

How to do it v

Glucose Alarm

Swipe or tap t
glucose.

Signal Loss A

Swipe or tap t

FreeSty
Lib
FLASH GLUCOSE MONITORING

Caution



- 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.
- 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.
- Disable your phone's automatic operating system updates. After an operating system update, open your App and check your device settings to make sure it's working properly.
- Some operating system features may impact your ability to receive alarms. For example, if you use the iOS Screen Time feature, add Libre 2 to the list of Always Allowed apps to ensure that you receive alarms.

Next





Using C

How to do it v

Glucose Alarm

Swipe or tap t
glucose.

Signal Loss A

Swipe or tap t

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



FreeStyle
Libre 2
FLASH GLUCOSE MONITORING SYSTEM

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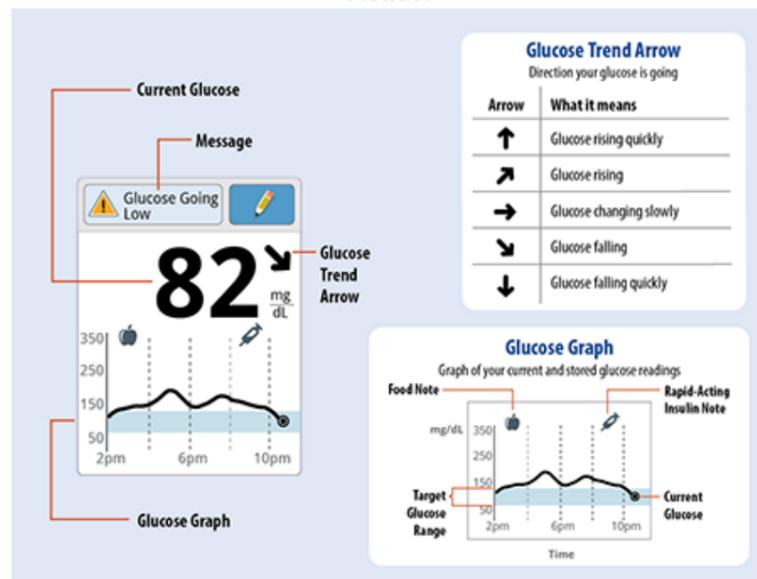
Next >



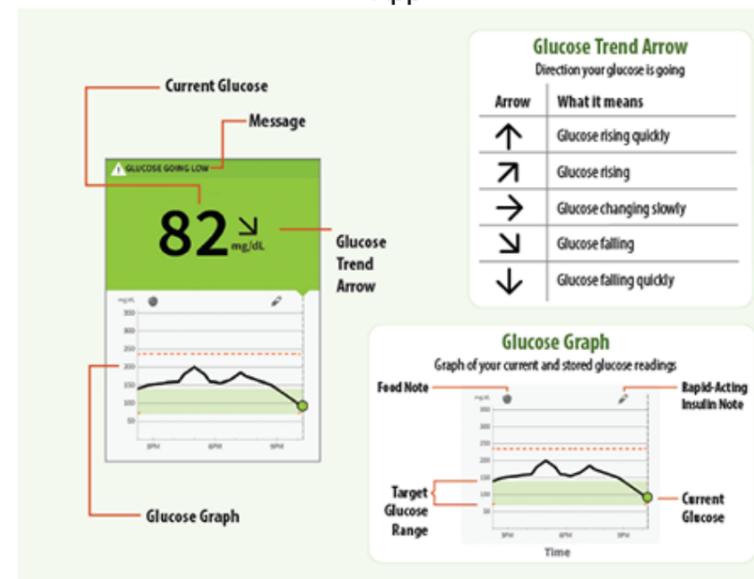
Treatment Decisions Guide

Using Sensor Glucose Readings for treatment decisions

Reader

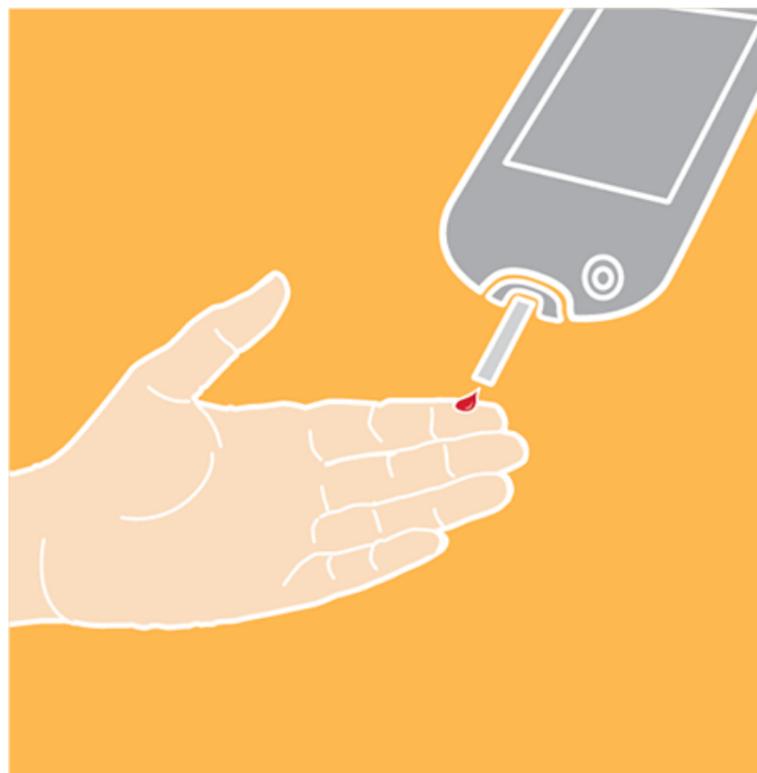


App



Treatment Decisions Guide

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.

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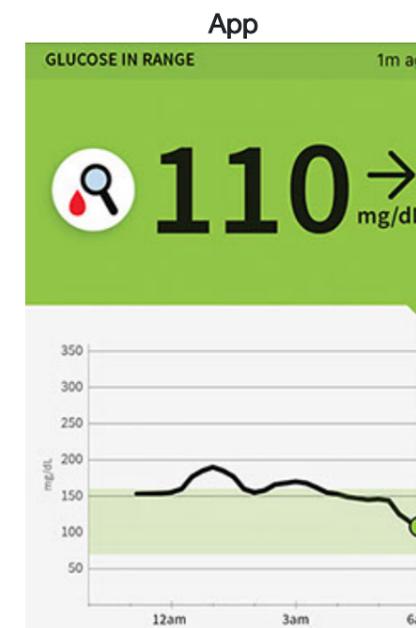
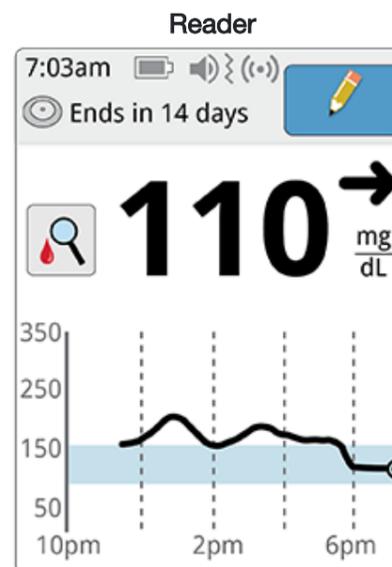
Treatment Decisions Guide - Example Scenarios

[When You Wake-Up](#)[Before Breakfast](#)[Lunch](#)[In the Afternoon](#)[After Exercising](#)[Before Dinner](#)

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.

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Treatment Decisions Guide - Example Scenarios

[When You Wake-Up](#)[Before Breakfast](#)[Lunch](#)[In the Afternoon](#)[After Exercising](#)[Before Dinner](#)

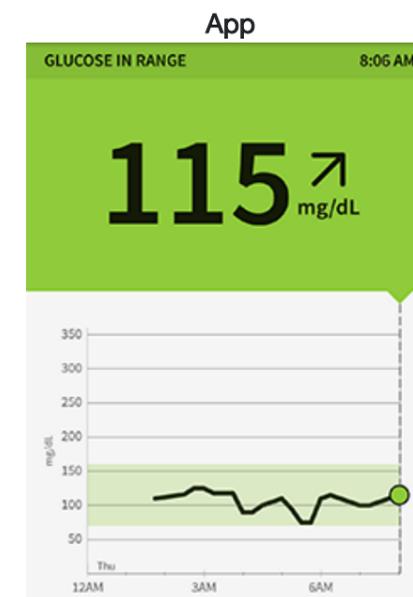
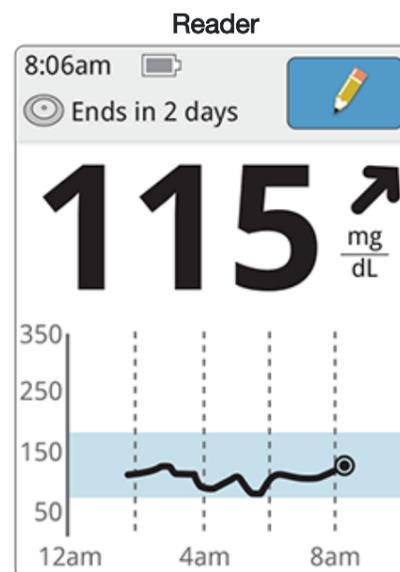
What you see: Before breakfast, your current glucose is 115 mg/dL. The graph shows that your glucose is going up and so does the trend arrow ↗.

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?

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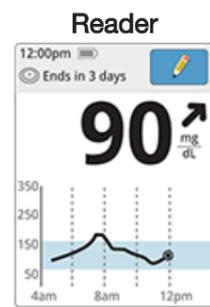
Treatment Decisions Guide - Example Scenarios

[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



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.

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

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Treatment Decisions Guide - Example Scenarios

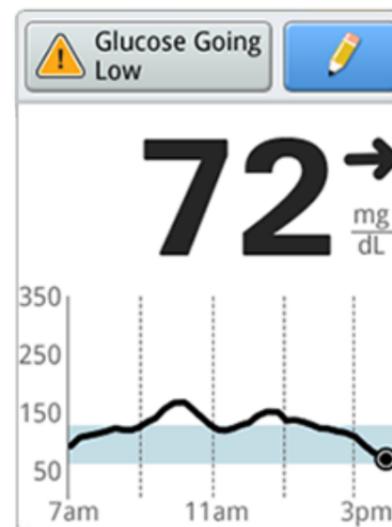
[When You Wake-Up](#)[Before Breakfast](#)[Lunch](#)[In the Afternoon](#)[After Exercising](#)[Before Dinner](#)

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.**

Reader



App

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Treatment Decisions Guide - Example Scenarios

[When You Wake-Up](#)[Before Breakfast](#)[Lunch](#)[In the Afternoon](#)[After Exercising](#)[Before Dinner](#)

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.

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Treatment Decisions Guide - Example Scenarios

[When You Wake-Up](#)[Before Breakfast](#)[Lunch](#)[In the Afternoon](#)[After Exercising](#)[Before Dinner](#)

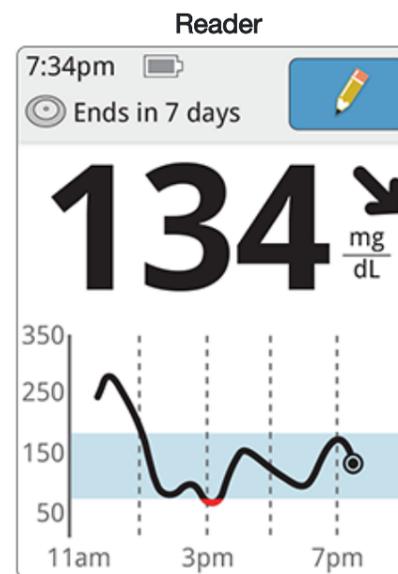
What you see: Before dinner, your current glucose is 134 mg/dL. The graph shows that your glucose is going down and so does the trend arrow ↘.

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 ↘, should you consider taking a little less insulin?

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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



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.



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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.

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Treatment Decisions Guide - Knowledge Check

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





Treatment Decisions Guide - Knowledge Check

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.



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Treatment Decisions Guide - Knowledge Check

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.



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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

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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.

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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

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.

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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.

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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.

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.

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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.

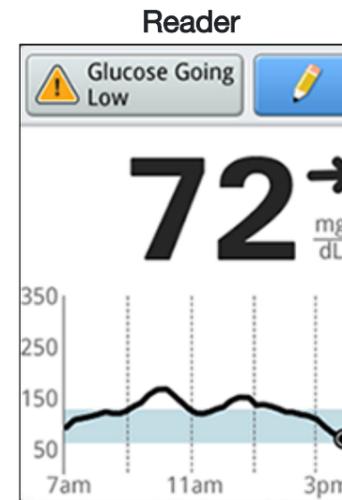
That's correct! Since you did not take multiple doses of rapid-acting insulin too close together, you avoided "insulin stacking" and low glucose. Don't take a correction dose within 2 hours of your meal dose.

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Treatment Decisions Guide - Knowledge Check

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



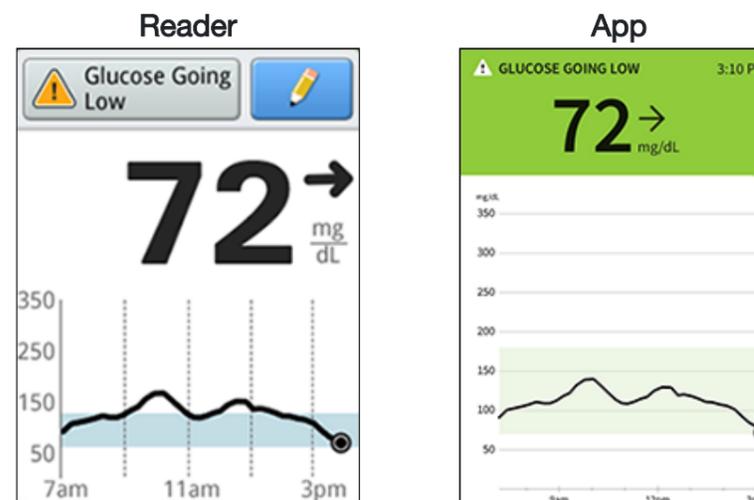
- Decide to take some insulin
- Consider eating a snack to stay within target

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Treatment Decisions Guide - Knowledge Check

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.



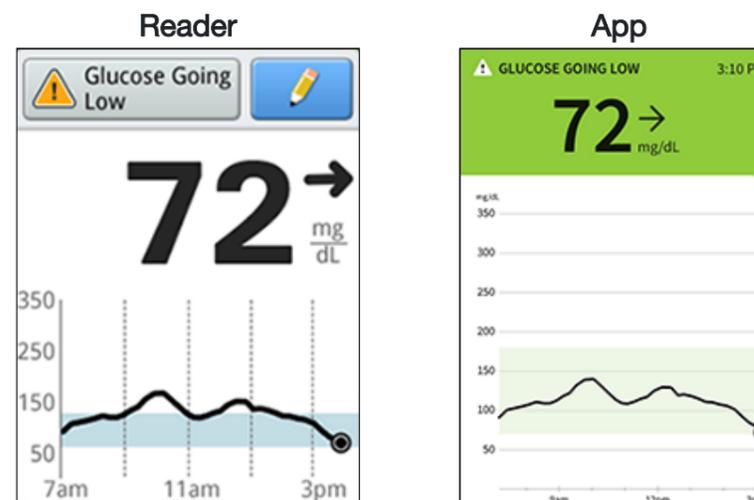
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Treatment Decisions Guide - Knowledge Check

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.

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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.

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Checking Glucose

You can use the Reader's built-in meter to test for glucose. Read the test strip instructions for use prior to use.

How to do it:

Wash your hands with warm soap and water for 20 seconds to get accurate results. Thoroughly dry your hands. Warm the site, apply a warm dry pad, and rub vigorously for a few seconds.

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

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

Insert the test strip with the three prongs at the end facing up. Push the strip into the Reader until it clicks.

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.

or not. Be sure to read the test



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Checking Glucose

You can use the Reader's built-in test strip instructions for use prior to use.

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.

or not. Be sure to read the test

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.



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Checking Glucose

You can use the Reader's built-in meter to check your glucose level. Read the test strip instructions for use prior to use.

The Reader's built-in meter turns off after 2 minutes of inactivity. Turn the meter on or not. Be sure to read the test

Note ⓘ

The Reader's built-in meter turns off after 2 minutes of inactivity. Turn the meter on or not. Be sure to read the test

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.



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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.

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Checking Glucose

How to do it:

Use your lancing device to obtain a blood sample. Apply the sample to the white area at the end of the test strip. Refer to the device instructions for use if you are unsure how to use the device. If sounds are turned on, the device will beep to let you know you have applied enough blood.

You will see a butterfly on the screen when your result is ready. Do not remove the test strip from the screen. If sounds are turned on, the device will beep when your result is ready.

If the butterfly does not appear, you may not have applied enough blood to the test strip. Apply a new sample to the test strip within 5 seconds. If the butterfly still does not appear or if the device beeps and you have passed, discard the test strip and apply a new sample. 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.

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Checking Glucose

How to do it:

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

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

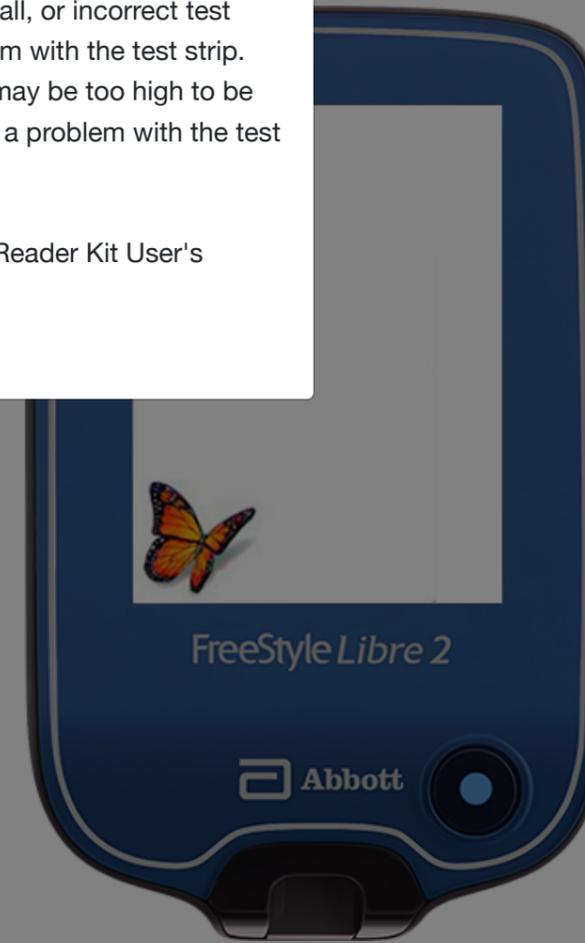
If the butterfly does not appear, you may not have applied enough blood to the test strip. Apply a second drop of blood to the test strip within 5 seconds of the first drop. If the butterfly still does not appear or if more than 5 seconds have passed, discard the test strip. Turn off the Reader and repeat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

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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.

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Checking Glucose

How to do it:

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

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



Caution



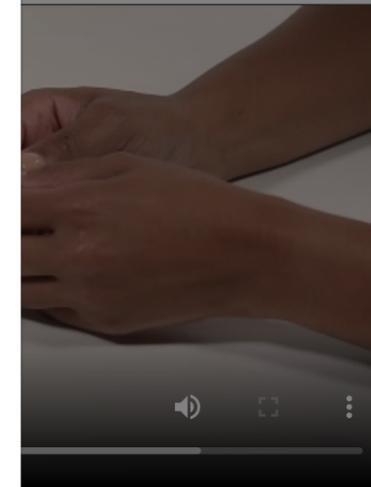
Test on your fingers in accordance with the Intended Use.

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.



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Important



- 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 health care 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.

Check

How to do it

After reviewing the used test

Blood glucose screen and i symbol.

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Checking

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.



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.

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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 view 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.



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Adding Notes

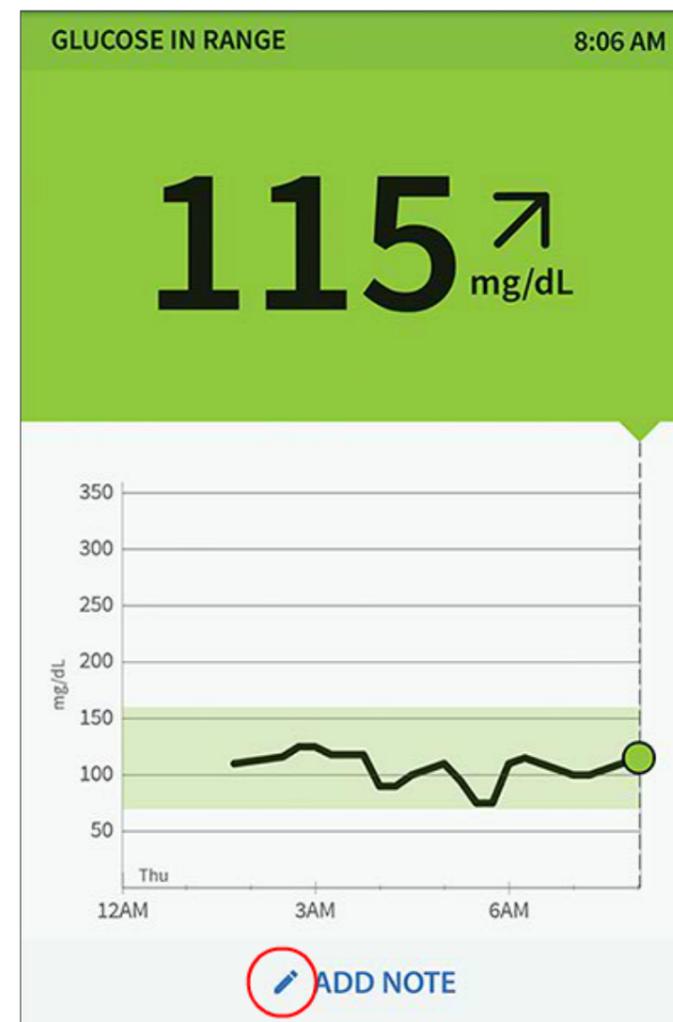
How to do it with the App:

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. 

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Adding Notes

How to do it with the App:

Tap the  symbol on the My Glucose

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

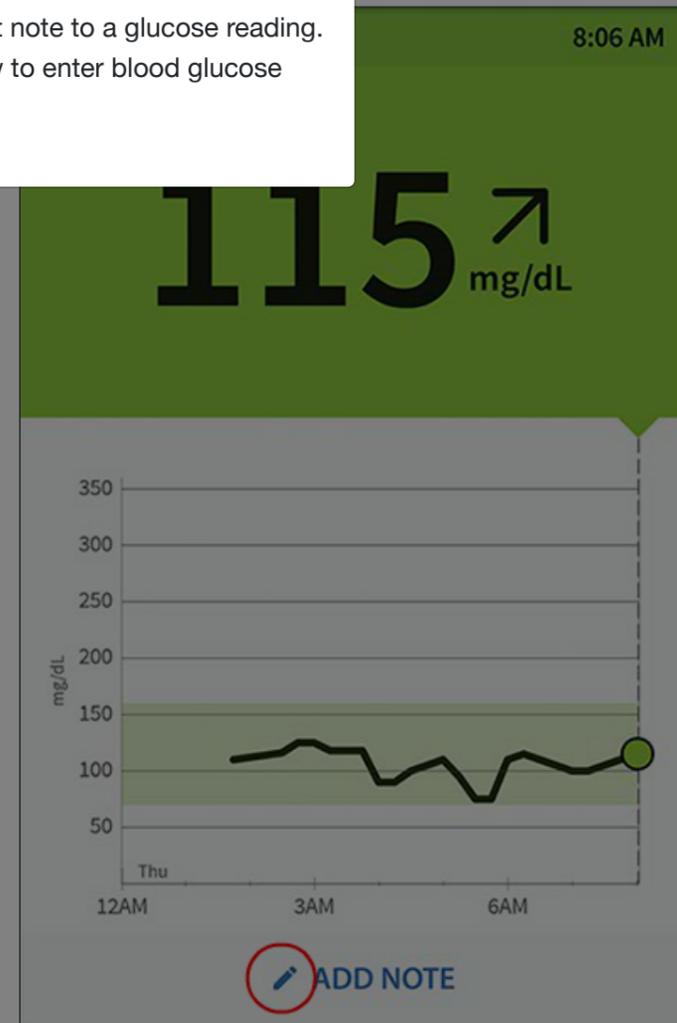
After you check the box, you can add more specific information to your note.

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.



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Adding Notes

How to do it with the App:

Tap the  symbol on the My Glucose

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

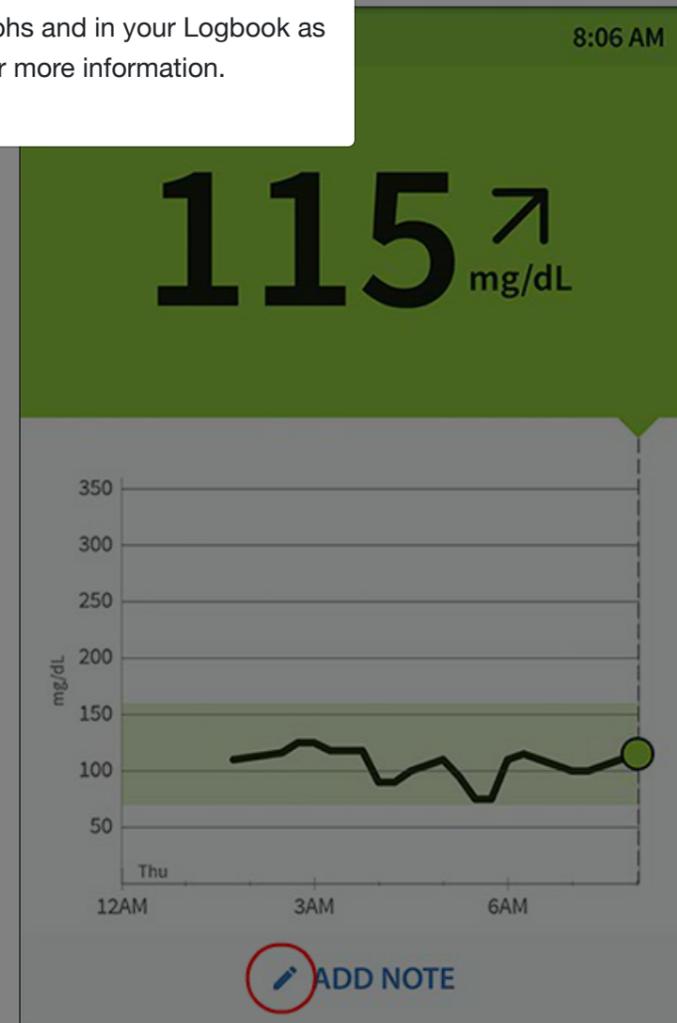
After you check the box, you can add more specific information to your note.

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.



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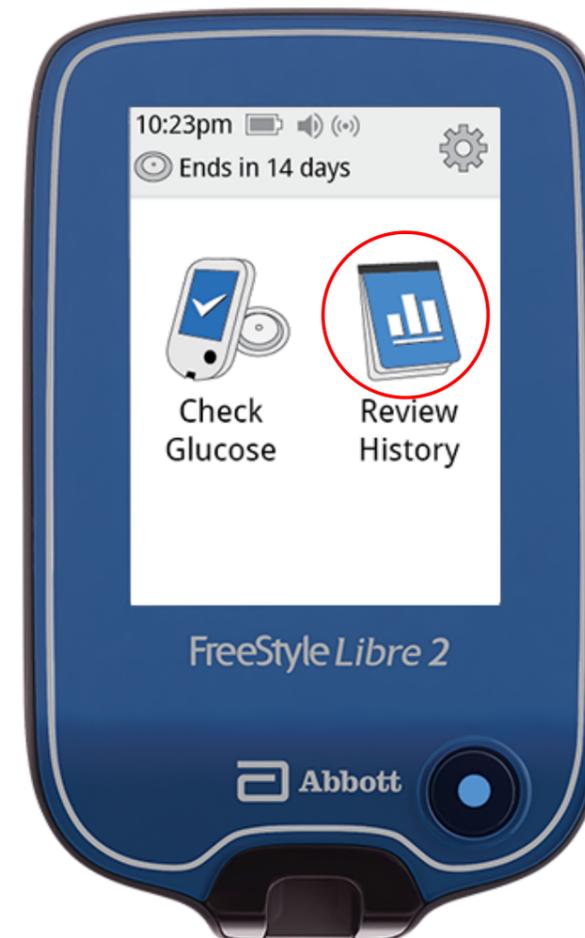
Reviewing History

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. 



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Reviewing History

Reviewing and understanding your glucose history is an important tool for improving your health. The FreeStyle Libre 2 Reader and App store about 90 days of history. There are several ways to review your past glucose readings, notes, and other information.

How to do it with the Reader:

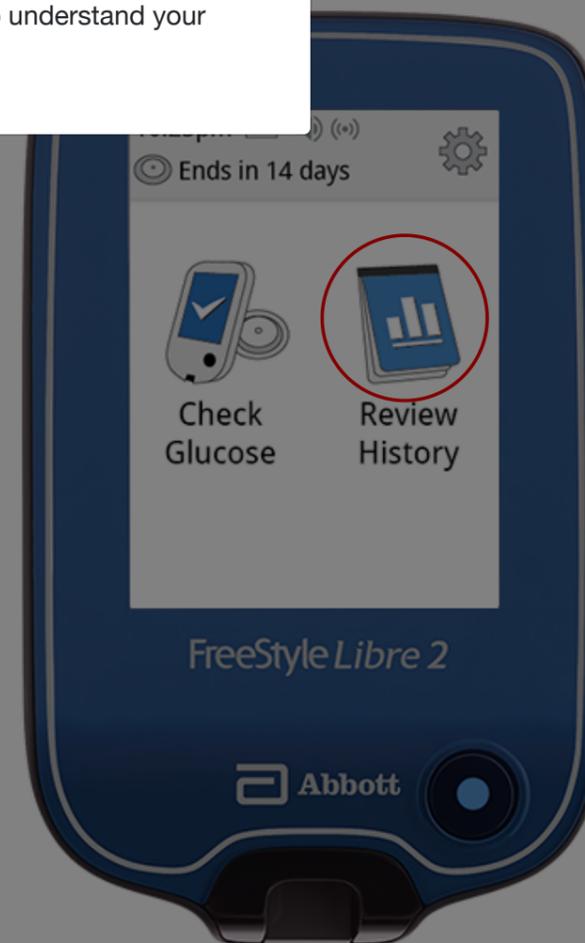
Touch the **Review History** icon on the Home Screen.

Use the arrows to view the available options.

Important



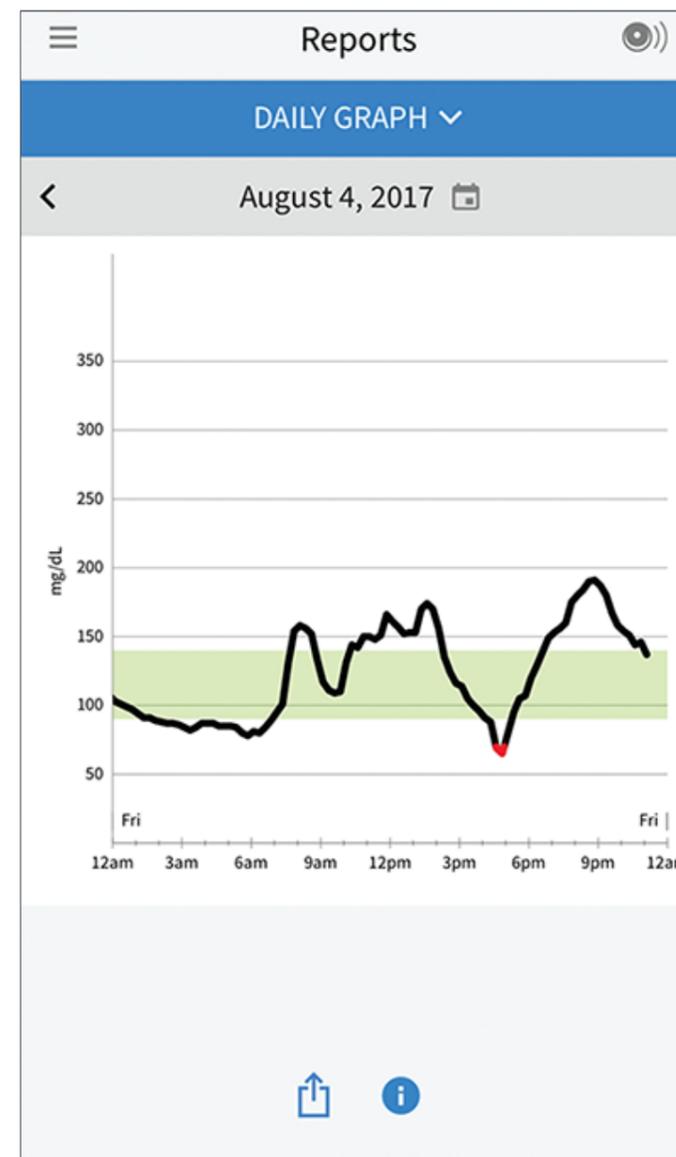
Work with your health care professional to understand your glucose history.



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**.



(Example screen displayed for iPhone)





Reviewing History

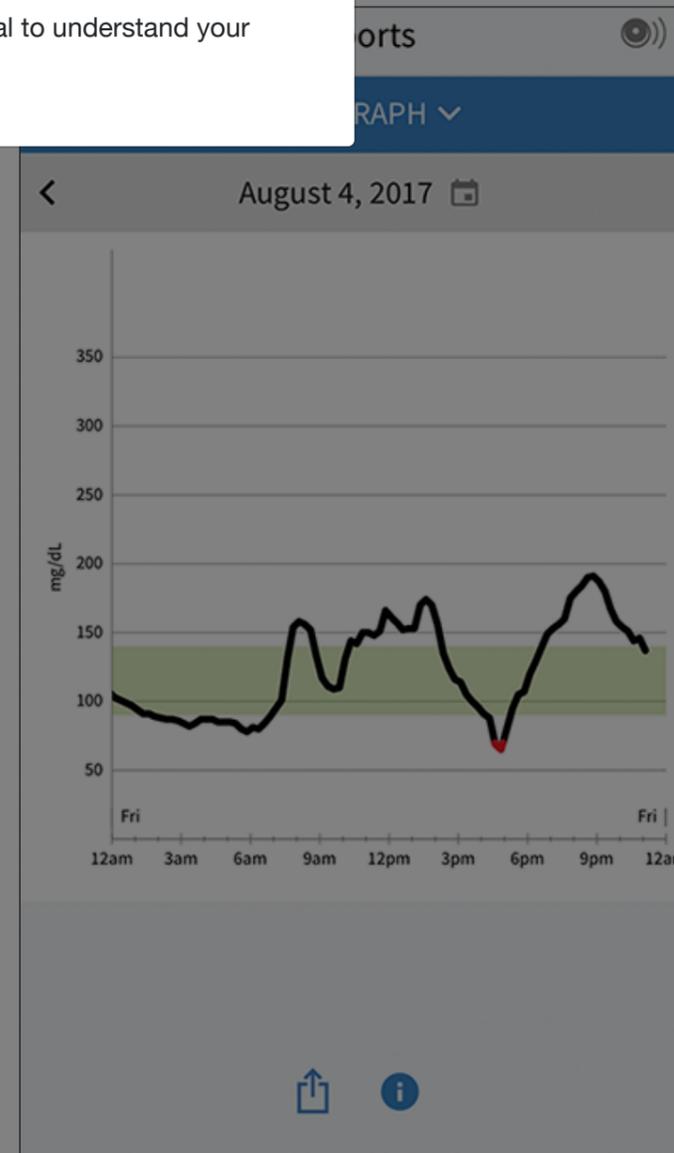
How to do it with the App:

From the Main Menu, tap Logbook. Then, tap on one of the other history options under **Reports**.

Important



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



(Example screen displayed for iPhone)



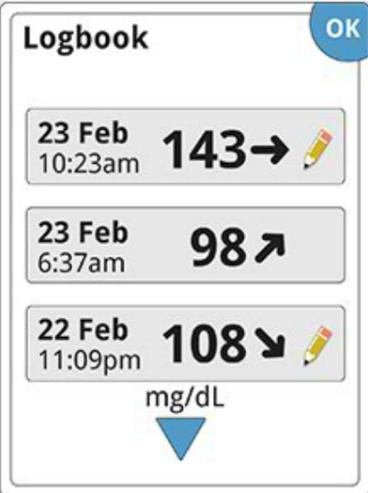
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Reviewing History

Summary of History Options - Reader

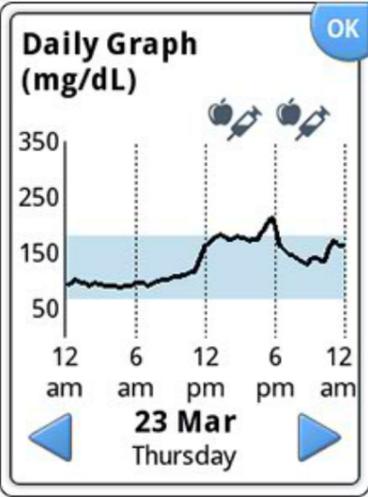
	What data is used?	What does this show?	Example
Logbook	Sensor scan results and blood glucose test results from each day.	Shows entries for each time you scanned your Sensor or performed a blood glucose test. If you entered notes with a glucose reading, the  symbol appears. Touch the entry to review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





Reviewing History

Summary of History Options - Reader

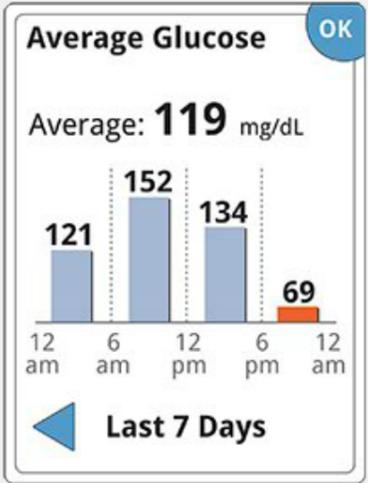
	What data is used?	What does this show?	Example
Logbook	Sensor glucose readings from each day.	Shows a graph of your Sensor glucose readings by day. The blue bar indicates your Target Glucose Range. Symbols indicate any food or rapid-acting insulin notes you have entered.	
Daily Graph			
Average Glucose			
Daily Patterns			
Time In Target			
Low Glucose Events			
Sensor Usage			





Reviewing History

Summary of History Options - Reader

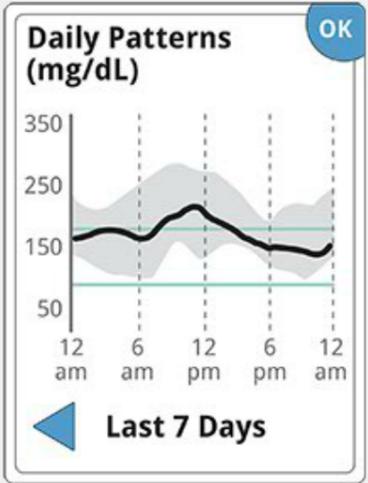
	What data is used?	What does this show?	Example
Logbook	Sensor glucose readings collected in the last 7, 14, 30, and 90 days.	Shows information about the average of your Sensor glucose readings. It includes the overall average and the average for four different 6-hour periods of the day.	
Daily Graph			
Average Glucose			
Daily Patterns			
Time In Target			
Low Glucose Events			
Sensor Usage			





Reviewing History

Summary of History Options - Reader

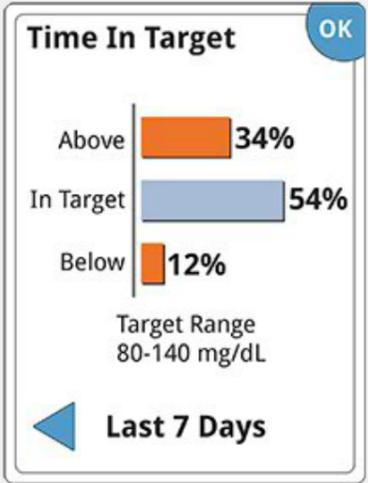
	What data is used?	What does this show?	Example
Logbook	Sensor glucose readings collected in the last 7, 14, 30, and 90 days.	Shows the pattern and variability of your Sensor glucose over a typical day.	
Daily Graph			
Average Glucose			
Daily Patterns			
Time In Target			
Low Glucose Events			
Sensor Usage			





Reviewing History

Summary of History Options - Reader

	What data is used?	What does this show?	Example
Logbook	Sensor glucose readings collected in the last 7, 14, 30, and 90 days.	Shows the percentage of time your Sensor glucose readings were above, below, or within your Target Glucose Range.	
Daily Graph			
Average Glucose			
Daily Patterns			
Time In Target			
Low Glucose Events			
Sensor Usage			





Reviewing History

Summary of History Options - Reader

	What data is used?	What does this show?	Example
Logbook	Sensor glucose readings collected in the last 7, 14, 30, and 90 days.	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.	
Daily Graph			
Average Glucose			
Daily Patterns			
Time In Target			
Low Glucose Events			
Sensor Usage			





Reviewing History

Summary of History Options - Reader

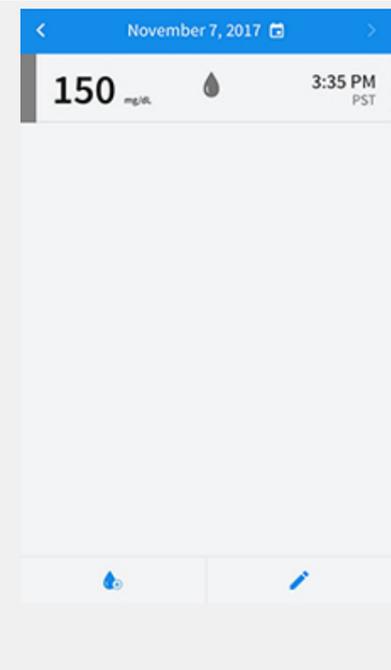
	What data is used?	What does this show?	Example
Logbook	Sensor glucose readings collected in the last 7, 14, 30, and 90 days.	Shows how often you scan your Sensor. It includes an average of how many times you scanned your Sensor each day, and the percentage of possible Sensor data the Reader recorded from your scans.	
Daily Graph			
Average Glucose			
Daily Patterns			
Time In Target			
Low Glucose Events			
Sensor Usage			





Reviewing History

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

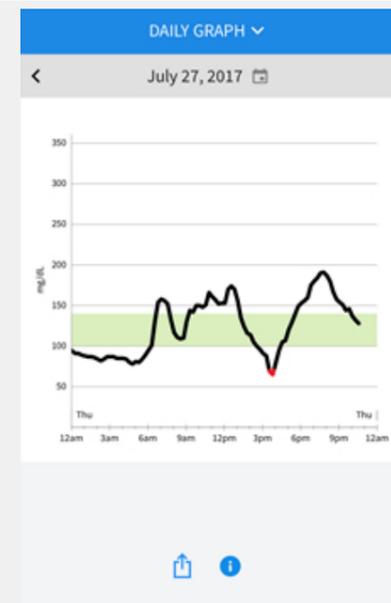
	What data is used?	What does this show?	Example
Logbook	Sensor scan results from each day. You can also use the Logbook to manually enter your blood glucose test results.	Shows entries for each time you scanned your Sensor as well as notes you added. The Logbook also lets you record a blood glucose test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

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Reviewing History

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

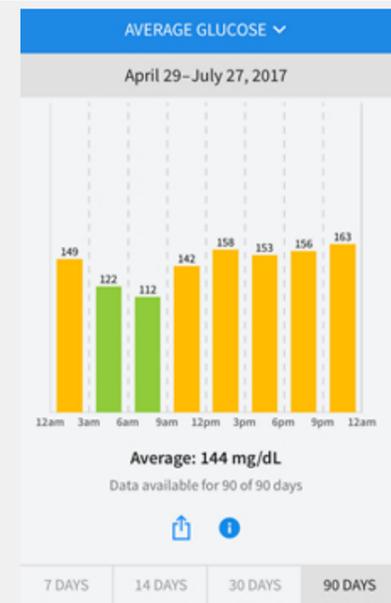
	What data is used?	What does this show?	Example
Logbook	Sensor glucose readings from each day.	Shows a graph of your Sensor glucose readings by day. The green bar indicates your Target Glucose Range. Symbols indicate any notes you have entered.	
Daily Graph			
Average Glucose			
Daily Patterns			
Time In Target			
Low Glucose Events			
Sensor Usage			





Reviewing History

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

	What data is used?	What does this show?	Example
Logbook	Sensor glucose readings collected in the last 7, 14, 30, and 90 days.	Shows information about the average of your Sensor glucose readings. It includes the overall average and the average for different periods of the day.	
Daily Graph			
Average Glucose			
Daily Patterns			
Time In Target			
Low Glucose Events			
Sensor Usage			

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Reviewing History

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

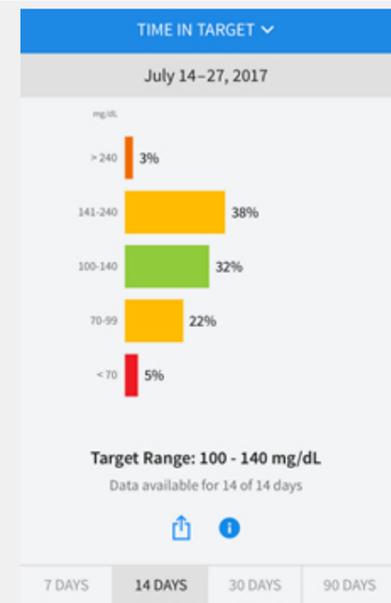
	What data is used?	What does this show?	Example
Logbook	Sensor glucose readings collected in the last 7, 14, 30, and 90 days.	Shows the pattern and variability of your Sensor glucose over a typical day.	
Daily Graph			
Average Glucose			
Daily Patterns			
Time In Target			
Low Glucose Events			
Sensor Usage			





Reviewing History

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

	What data is used?	What does this show?	Example
Logbook	Sensor glucose readings collected in the last 7, 14, 30, and 90 days.	Shows the percentage of time your Sensor glucose readings were above, below, or within your Target Glucose Range.	
Daily Graph			
Average Glucose			
Daily Patterns			
Time In Target			
Low Glucose Events			
Sensor Usage			





Reviewing History

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

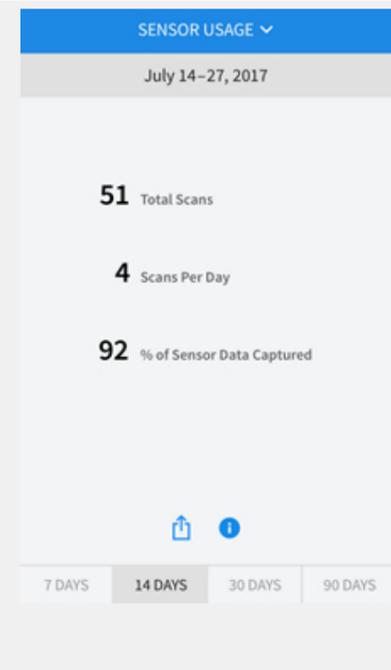
	What data is used?	What does this show?	Example
Logbook	Sensor glucose readings collected in the last 7, 14, 30, and 90 days.	Shows the number of low glucose events measured by your Sensor. It includes the total number of events and the events in different periods of the day.	
Daily Graph			
Average Glucose			
Daily Patterns			
Time In Target			
Low Glucose Events			
Sensor Usage			





Reviewing History

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

	What data is used?	What does this show?	Example
Logbook	Sensor glucose readings collected in the last 7, 14, 30, and 90 days.	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.	
Daily Graph			
Average Glucose			
Daily Patterns			
Time In Target			
Low Glucose Events			
Sensor Usage			





More Information

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App Symbols >

System Specifications >

facilitating both acute and long-term therapy adjustments. Interpretation of the System readings should be based on the glucose trends and several sequential readings over time.

The System is also intended to autonomously communicate with digitally connected devices. The System can be used alone or in conjunction with these digitally connected devices where the user manually controls actions for therapy decisions.

Compatible Devices, Apps, and Software

For a list of compatible devices, apps, and software that can be used with the FreeStyle Libre 2 Sensor, please go to:

<https://FreeStyleLibre.us/support/overview.html>

Use of the Sensor with devices, apps, and software that are not listed may cause inaccurate glucose readings.

FreeStyle Libre 2 app is only compatible with certain mobile devices and operating systems. Please check www.FreeStyleLibre.com for more information about device compatibility before upgrading your phone or its operating system.

Contraindications

Automated Insulin Dosing: The System must not be used with automated insulin dosing (AID) systems, including closed loop and insulin suspend systems.



MRI/CT/Diathermy: The System must be removed prior to Magnetic Resonance Imaging (MRI), Computed Tomography (CT) scan, or high-frequency electrical heat (diathermy) treatment. The effect of MRI, CT scans, or diathermy on the performance of the System has not been evaluated. The exposure may damage the Sensor and may impact proper function of the device which could cause incorrect readings.

WARNINGS:

- **Do not ignore symptoms that may be due to low or high blood glucose:** if you are experiencing symptoms that are not consistent with your glucose readings, consult your health care professional.
- Use your blood glucose meter to make diabetes treatment decisions when you see the  symbol during the first 12 hours of wearing a Sensor, if your Sensor glucose reading does not match how you feel, or if the reading does not include a number.
- If you are using the FreeStyle Libre 2 app, you must also have access to a blood glucose monitoring system as the App does not provide one.
- **Choking hazard:** The System contains small parts that may be dangerous if swallowed.

Cautions and Limitations

Below are important cautions and limitations to keep in mind so you can use the System safely. They are grouped into categories for easy reference.



Important information about the FreeStyle Libre 2 System

Important Safety Information

Indications for Use

The FreeStyle Libre 2 Flash Glucose Monitoring System is a continuous glucose monitoring (CGM) device with real time alarms capability indicated for the management of diabetes in persons age 4 and older. It is intended to replace blood glucose testing for diabetes treatment decisions, unless otherwise indicated .

The System also detects trends and tracks patterns and aids in the detection of episodes of hyperglycemia and hypoglycemia, facilitating both acute and long-term therapy adjustments. Interpretation of the System readings should be based on the glucose trends and several sequential readings over time.

The System is also intended to autonomously communicate with digitally connected devices. The System can be used alone or in conjunction with these digitally connected devices where the user manually controls actions for therapy decisions.

Compatible Devices, Apps, and Software

For a list of compatible devices, apps, and software that can be used with the FreeStyle Libre 2 Sensor, please go to:

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MRI/CT/Diathermy: The System must be removed prior to Magnetic Resonance Imaging (MRI), Computed Tomography (CT) scan, or high-frequency electrical heat (diathermy) treatment. The effect of MRI, CT scans, or diathermy on the performance of the System has not been evaluated. The exposure may damage the Sensor and may impact proper function of the device which could cause incorrect readings.

WARNINGS:

- **Do not ignore symptoms that may be due to low or high blood glucose:** if you are experiencing symptoms that are not consistent with your glucose readings, consult your health care professional.
- Use your blood glucose meter to make diabetes treatment decisions when you see the  symbol during the first 12 hours of wearing a Sensor, if your Sensor glucose reading does not match how you feel, or if the reading does not include a number.
- If you are using the FreeStyle Libre 2 app, you must also have access to a blood glucose monitoring system as the App does not provide one.
- **Choking hazard:** The System contains small parts that may be dangerous if swallowed.

Cautions and Limitations

Below are important cautions and limitations to keep in mind so you can use the System safely. They are grouped into categories for easy reference.

What to know about Alarms:

- For you to receive alarms, they must be on and your device 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.
- To prevent missed alarms, make sure your device has sufficient charge. If using the Reader, make sure that sounds 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.
- 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.

What to know before using the System:

- Review all product information before use.
- Take standard precautions for transmission of blood borne pathogens to avoid contamination.
- Make sure that your devices and Sensor kits are kept in a safe place, and maintain your devices under your control during use. This is important to help prevent anyone from accessing or tampering with the System.

Who should not use the System:

- **Do not use the System in people less than 4 years of age.** The System is not cleared for use in people under 4 years of age.
- **Do not use the System if you are pregnant, on dialysis, or critically ill.** The System is not cleared for use in these groups and it is not known how different conditions or medications common to these populations may affect performance of the System.
- Performance of the System when used with other implanted medical devices, such as pacemakers, has not been evaluated.

What should you know about wearing a Sensor:

- Wash application site on the back of your upper arm 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. Carefully preparing the site according to these instructions will help the Sensor stay on your body for the full 14 day wear period and help prevent it from falling off early.
- The Sensor can be worn for up to 14 days. Remember to always have your next Sensor available before your current one ends so you can keep getting your glucose readings.
- You must scan the Sensor to get your real-time current glucose level as both the Reader and App will not provide this information without a scan.
- In the event that your Sensor stops working and you do not have another Sensor readily available, you must use an alternate method to measure your glucose levels and inform your treatment decisions.
- The System is designed to detect certain conditions which may occur where the Sensor is not working as intended and shut it off, telling you to replace your Sensor. This may occur if the Sensor gets knocked off from the skin or if the System detects that the Sensor may not be performing as intended. Contact Customer Service if you receive a Replace Sensor message before the end of the 14 day wear period. Customer Service is available at 1-855-632-8658 7 Days a Week from 8AM to 8PM Eastern Standard Time.
- Some individuals may be sensitive to the adhesive that keeps the Sensor attached to the skin. If you notice significant skin irritation around or under your Sensor, remove the Sensor and stop using the System. Contact your health care professional before continuing to use the System.

- 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 period. Customer Service is available at 1-855-632-8658 7 Days a Week from 8AM to 8PM Eastern Standard Time.
- Do not reuse Sensors. The Sensor and Sensor Applicator are designed for single use. Reuse may result in no glucose readings and infection. Not suitable for re-sterilization. Further exposure to irradiation may cause unreliable low results.
- If a Sensor breaks inside your body, call your health care professional.

 **How to Store the Sensor Kit:**

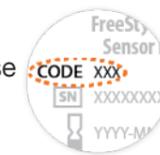
- Store the Sensor Kit between 36°F and 82°F. Storage outside of this range may cause inaccurate Sensor glucose readings.
- If you suspect that the temperature may exceed 82°F (for example, in an un-airconditioned home in summer), you should refrigerate your Sensor Kit. Do not freeze your Sensor Kit.
- Store your Sensor Kit in a cool, dry place. Do not store your Sensor Kit in a parked car on a hot day.
- Store the Sensor Kit between 10-90% non-condensing humidity.

 **When not to use the System:**

- Do NOT use if the Sensor Kit package, Sensor Pack or Sensor Applicator appear to be damaged or already opened due to risk of no results and/or infection.
- Do NOT use if Sensor Kit contents are past expiration date.
- Do NOT use if the Reader appears to be damaged due to risk of electric shock and/or no results.

 **What to know before you Apply the Sensor:**

- 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 your 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.
- Wash application site on the back of your upper arm 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. Carefully preparing the site according to these instructions will help the Sensor stay on your body for the full 14 day wear period and help prevent it from falling off early.
- Clean hands prior to Sensor handling/insertion to help prevent infection.
- Change the application site for the next Sensor application to prevent discomfort or skin irritation.
- Only apply the Sensor to the back of the upper arm. If placed in other areas, the Sensor may not function properly.
- Select an appropriate Sensor site to help the Sensor stay attached to the body and prevent discomfort or skin irritation. Avoid areas with scars, moles, stretch marks, or lumps. Select an area of skin that generally stays flat during normal daily activities (no bending or folding). Choose a site that is at least 1 inch away from an insulin injection site.



 **When is Sensor Glucose different from Blood Glucose:**

- Physiological differences between the interstitial fluid and capillary blood may result in differences in glucose readings between the System and results from a fingerstick test using a blood glucose meter. Differences in glucose readings between interstitial fluid and capillary blood may be observed during times of rapid change in blood glucose, such as after eating, dosing insulin, or exercising.

 **What to know about X-Rays:**

- The Sensor should be removed prior to exposing it to an X-ray machine. The effect of X-rays on the performance of the System has not been evaluated. The exposure may damage the Sensor and may impact proper function of the device to detect trends and track patterns in glucose values during the wear period.

 **When to remove 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 readings, which may not match how you feel. Check to make sure your Sensor has not come loose. If it has come loose, remove it, apply a new one, and contact Customer Service.
- If you believe your glucose readings are not correct or are inconsistent with how you feel, perform a blood glucose test on your finger to confirm your glucose. If the problem continues, remove the current Sensor, apply a new one, and contact Customer Service. Customer Service is available at 1-855-632-8658 7 Days a Week from 8AM to 8PM Eastern Standard Time.

 **What to know about the Reader's Built-in Meter:**

- The FreeStyle Libre 2 Reader has a built-in blood glucose meter that is designed to be used only with FreeStyle Precision Neo blood glucose test strips and MediSense Glucose and Ketone Control Solution. Using other test strips with the Reader's built-in meter will produce an error or cause the Reader's built-in meter to not turn on or start a test. The Reader's built-in meter does not have ketone testing functionality.
- 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.
- See Using the Reader's Built-in meter section of the User's Manual for additional important information on the use of the Reader's built-in meter.

 **What to know about charging your Reader:**

- Be sure to select a location for charging that allows the power adapter to be easily unplugged. Do NOT block access to the charger due to the potential risk of electrical shock.
- The maximum surface temperature of the Reader and/or the power adapter could go as warm as 49 °C when it's charging or 47 °C during normal use. 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.

 **What to know about the System:**

- The FreeStyle Libre 2 System is intended for use by a single person. It must not be used by more than one person due to the risk of misinterpreting glucose information.
- FreeStyle Libre 2 app and FreeStyle Libre 2 Readers do not share data.

Interfering Substances:

Taking ascorbic acid (vitamin C) supplements while wearing the Sensor may falsely raise Sensor glucose readings. Taking more than 500 mg of ascorbic acid per day may affect the Sensor readings which could cause you to miss a severe low glucose event. Ascorbic acid can be found in supplements including multivitamins. Some supplements, including cold remedies such as Airborne® and Emergen-C®, may contain high doses of 1000 mg of ascorbic acid and should not be taken while using the Sensor. See your health care professional to understand how long ascorbic acid is active in your body.





Reader Symbols



Active Sensor

Direction glucose is going



Caution

View previous/next screen



Sound and Vibration **ON**



Sound **ON**, Vibration **OFF**



Sound **OFF**, Vibration **ON**



Sound and Vibration **OFF**



Sensor communicating with Reader



Sensor not communicating with Reader



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.



Notes



Add more information to notes



Food note



Rapid-acting insulin note



Time changed on Reader



Blood glucose test



Settings



Control solution test result



Low battery



Battery charging



Sensor too cold



Sensor too hot



App Symbols



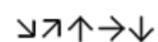
App icon



Alarms are unavailable



Scan button



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



Food note



Insulin (Rapid or Long-acting) note



Exercise note



Time change



Main menu



Multiple/Custom notes



Share report



Additional information



Calendar



Sensor too cold



Sensor too hot



System Specifications

[Sensor Specifications](#)[Reader Specifications](#)

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

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

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System Specifications

[Sensor Specifications](#)[Reader Specifications](#)

Blood glucose assay range	20 to 500 mg/dL
Reader size	95 mm x 60 mm x 16 mm
Reader weight	65 grams
Reader power source	One lithium-ion rechargeable battery
Reader battery life	4 days of typical use
Reader memory	90 days of typical use
Reader operating temperature	50 °F to 113 °F
Reader storage temperature	-4 °F to 140 °F
Operating and storage relative humidity	10-90%, non-condensing
Reader moisture protection	Keep dry
Operating and storage altitude	-1,250 ft (-381 meters) to 10,000 ft (3,048 meters)
Reader display timeout	60 seconds (120 seconds when test strip is inserted)

Radio Frequency	Near Field Communication (13.56 MHz RFID); ASK Modulation; 124 dBuV/m; 1.5 inch communication range; 2.402-2.480 GHz BLE; GFSK; 2dBm EIRP*
Data port	Micro USB
Minimum Computer Requirements	System must only be used with EN60950-1 rated computers
Mean service life	3 years of typical use
Reader cleaning and disinfection	The Reader has a mean use life of 3 years, which is 156 cleaning and disinfection cycles (1 cycle per week for 3 years).
Power Adapter	Abbott Diabetes Care PRT25611 Operating temperature: 50 °F to 104 °F
USB Cable	Abbott Diabetes Care PRT21373 Length: 37 inches (94 cm)

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

Security Measures and Quality of Service:

Security Measures:

- 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 authenticated 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 authenticated 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 authenticated 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 authenticated 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 4 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 regular 1-minute intervals. 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 alarms 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 phone. QoS for the FreeStyle Libre 2 App and Sensor wireless communications using BLE is assured at regular 1-minute intervals. If connection is lost between the App and Sensor for 5-minutes, the alarms unavailable symbol displays. If connection is lost for 20 minutes, the App alarms 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



FreeStyle Libre 2 app
A FreeStyle Libre product



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