





Your Name			

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Reader Symbols

Symbol	What It Means	
©	Active Sensor	
↑ × → ¥ ↓	Direction your glucose is going. See <i>Checking Your Glucose</i> section for more information.	
	Caution	
	View previous/next screen	
₽	Notes	
+	Add more information to notes	
(Food note	
ø	Rapid-acting insulin note	
<u>C</u>	Time changed on Reader	
■ ()}	Sound and Vibration ON	
	Sound ON , Vibration OFF	
■ }	Sound OFF , Vibration ON	
***	Sound and Vibration OFF	

Symbol	What It Means	
((•))	Sensor communicating with Reader	
(N)	Sensor not communicating with Reader	
•	Blood glucose or ketone test	
	Settings	
•	Control solution test result	
	Rapid-acting insulin calculator	
i	Details of your suggested insulin dose	
숬	Estimated rapid-acting insulin remaining in body	
	Low battery	
→	Battery charging	
1	Sensor too cold	
1	Sensor too hot	

Important Safety Information

Compatible Sensors

You can use FreeStyle Libre 2 Reader with the below Sensors. The age range, wear duration, and Performance Characteristics vary between Sensors. Please reference the labeling content that applies to your Sensor.

FreeStyle Libre 2 Sensor:

- 14 day wear duration
- Can be used by people age 4 and older

FreeStyle Libre 2 Plus Sensor:

- 15 day wear duration
- · Can be used by people age 2 and older

Indications for Use

FreeStyle Libre 2 Sensor users:

The FreeStyle Libre 2 Flash Glucose Monitoring System Reader ("Reader") when used with a FreeStyle Libre 2 Flash Glucose Monitoring System Sensor ("Sensor") is indicated for measuring interstitial fluid glucose levels in people (age 4 and older) with diabetes mellitus, including pregnant women. The Reader and Sensor are designed to replace blood glucose testing in the self-management of diabetes, including dosing of insulin.

The indication for children (age 4 - 12) is limited to those who are supervised by a caregiver who is at least 18 years of age. The caregiver is responsible for managing or assisting the child to manage the Reader and Sensor and also for interpreting or assisting the child to interpret Sensor glucose readings.

FreeStyle Libre 2 Plus Sensor users:

The FreeStyle Libre 2 Flash Glucose Monitoring System Reader ("Reader") when used with a FreeStyle Libre 2 Plus Flash Glucose Monitoring System Sensor ("Sensor") is indicated for measuring interstitial fluid glucose levels in people (age 2 and older) with diabetes mellitus, including pregnant women. The Reader and Sensor are designed to replace blood glucose testing in the self-management of diabetes, including dosing of insulin. The indication for children (age 2 - 12) is limited to those who are supervised by a caregiver who is at least 18 years of age. The caregiver is responsible for managing or assisting the child to manage the Reader and Sensor and also for interpreting or assisting the child to interpret Sensor glucose readings.

Contraindications

The Sensor must be removed prior to Magnetic Resonance Imaging (MRI).

WARNING:

- Do not ignore symptoms that may be due to low or high blood glucose. If you have symptoms that do not match the Sensor glucose reading or suspect that your reading may be inaccurate, check the reading by conducting a fingerstick test using a blood glucose meter. If you are experiencing symptoms that are not consistent with your glucose readings, consult your health care professional.
- The FreeStyle Libre 2 Flash Glucose Monitoring System ("System") contains small parts that may be dangerous if swallowed.

Cautions and Important System Information:



What the System has not been evaluated for:

- The System has not been evaluated for use with other implanted medical devices such as pacemakers.
- The System has not been evaluated for use in persons on dialysis.



How to store the Sensor:

 Store the Sensor Kit between 4°C and 25°C. While you don't need to keep your Sensor Kit in a refrigerator, you can as long as the refrigerator is between 4°C and 25°C.



When is Sensor Glucose different from Blood Glucose:

 Glucose levels in the interstitial fluid can be different from blood glucose levels and may mean that Sensor glucose readings are different from blood glucose. You may notice this difference during times when your blood glucose is changing quickly, for example after eating, taking insulin, or exercising.



When to remove the Sensor:

- On rare occasions, you may get inaccurate Sensor glucose readings. If you believe your glucose readings are not correct or do not match how you feel, perform a blood glucose test on your finger to confirm your glucose. If the problem continues, remove your Sensor and apply a new one.
- 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.
- If you have a medical appointment that includes strong magnetic or electromagnetic radiation, for example an X-ray, MRI (Magnetic Resonance Imaging), or CT (Computed Tomography) scan, remove the Sensor you are wearing and apply a new one after the appointment. The effect of these types of procedures on the performance of the system has not been evaluated.



What to know about wearing the Sensor:

- Do not use the System in people under the age specified in the Indications for Use.
- 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 inaccurate results.



What to know about Glucose Alarms:

- For you to receive alarms, they must be turned ON and you should ensure that your Reader is within 6 meters (20 ft) of you at all times. The transmission range is 6 meters (20 ft) unobstructed. If you are out of range, you may not receive glucose alarms.
- To prevent missed alarms, make sure the Reader has sufficient charge and that sound and/or vibration are turned on.



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

- The Reader is designed to be used only with FreeStyle Optium blood glucose and blood ketone test strips and MediSense control solution.
- 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 cleaning the Reader.
- Avoid getting dust, dirt, blood, control solution, water or other substances in the Reader's USB and test strip ports.

Getting to Know Your System

The FreeStyle Libre 2 Flash Glucose Monitoring System ("System") has two main parts: a handheld Reader and a disposable Sensor that you wear on your body. You use the Reader to wirelessly scan the Sensor and display your glucose readings. When in range, the Sensor and Reader automatically communicate to provide glucose alarms if you choose to turn them on. The Reader also has a built-in meter for blood glucose and ketone testing.

Note: The Reader only works with FreeStyle Libre 2 Sensors or FreeStyle Libre 2 Plus Sensors and cannot be used with other Sensors.



IMPORTANT: Safety information about the System is in this User's Manual. Read all of the information in the User's Manual and the FreeStyle Optium blood glucose and ketone test strip instructions for use before using your System.

Your System comes in a **Reader Kit** and a **Sensor Kit**. When opening your kits, check that the contents are undamaged and that you have all parts listed. If any parts are missing or damaged, contact Customer Service.

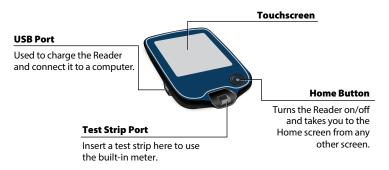
Reader Kit

The Reader Kit includes:

- FreeStyle Libre 2 Reader Power Adapter Quick Start Guide

USB Cable

- User's Manual
- Performance Data Inserts



The Reader gets glucose readings from your Sensor and can also issue glucose alarms if they are turned on. It can store approximately 90-days of glucose history and notes you enter about activities, such as taking insulin, eating food, or exercising. This information can help you understand how these activities affect your glucose.

Sensor Kit

The Sensor Kit includes:

- Sensor Pack
- Sensor Applicator





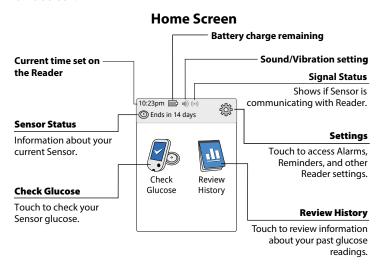


Sensor Applicator Applies the Sensor to your body.

The Sensor measures and stores glucose readings when worn on your body. It initially comes in two parts: one part is in the Sensor Pack and the other part is in the Sensor Applicator. By following the instructions, you prepare and apply the Sensor on the back of your upper arm. The Sensor has a small, flexible tip that is inserted just under the skin. Check the information provided in the Sensor

Insert for the wear duration of the Sensor.

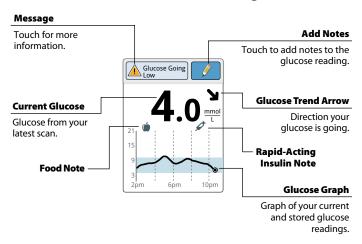
Sensor Measures your glucose while on your body (only visible after applied). The Reader Home Screen provides access to information about your glucose and the System. You can press the Home Button to get to the Home Screen.



Note: Sound/Vibration setting and Signal Status symbols only display if any of the alarms are turned on.

The Sensor Glucose Readings screen appears after you use the Reader 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.

Sensor Glucose Readings



Data Management Software

To upload data from the Reader, please visit www.FreeStyleLibre.com and learn more about the data management software you can use.

Setting up Your Reader for the First Time

Before using the System for the first time, the Reader must be set up.

Step

Action

1



Press the Home Button to turn on the Reader.

2



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

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

Step

Action

3



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

4



Current Time

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

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

Step Action

- The Reader now displays important information about two key topics to help you use the system:
 - How to understand the Glucose Trend Arrow included on the Glucose Reading screen.
 - How to return to the Home Screen from any other screen.



Touch **next** to move to the next topic. At the end of the Reader setup, touch **done** to go to the Home Screen.

Note: Charge the Reader if the battery level is low. Only use the USB cable and power adapter included with the System.

Using Your 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 your Sensor Pack and Sensor Applicator. Sensor Packs and Sensor Applicators with the same Sensor code should be used together or your Sensor glucose readings may be incorrect.
- Intense exercise may cause your Sensor to loosen due to sweat or movement of the Sensor. If your Sensor comes loose, you may get no readings or unreliable readings, which may not match how you feel. Follow the instructions to select an appropriate application site.

Applying Your Sensor

Action Step Apply Sensors only on the back of your upper arm. 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 2.5 cm (1 inch) 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. Wash application site using a plain soap, dry, and then clean with an alcohol wipe. This will help



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.

Note: The area **MUST** be clean and dry, or the Sensor may not stick to the site.

Action

3



Open the Sensor Pack by peeling the lid off completely. Unscrew the cap from the Sensor Applicator and set the cap aside.



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.

4



Line up the dark mark on the Sensor Applicator with the dark mark on the Sensor Pack. On a hard surface, press down firmly on the Sensor Applicator until it comes to a stop.

5



Lift the Sensor Applicator out of the Sensor Pack.

Action

6



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.

7



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

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

Step	Action		
8	Sensor	Gently pull the Sensor Applicator away from your body. The Sensor should now be attached to your skin. Note: Applying the Sensor may cause bruising or bleeding. If there is bleeding that does not stop, remove the Sensor, and apply a new one at a different site.	
9		Make sure the Sensor is secure after application. Put the cap back on the Sensor Applicator. Discard the used Sensor Pack and Sensor Applicator. See <i>Disposal</i> section.	

Starting Your Sensor

Action Step Press the Home Button to turn on the Reader. Touch Start New Sensor. Hold the Reader near the Sensor to scan it. This 3 starts your Sensor. If sounds are turned on,



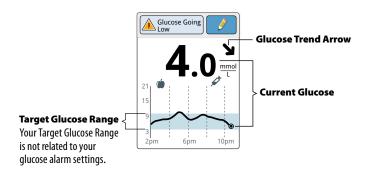
the Reader beeps when the Sensor has been successfully activated. The Sensor can be used to check your glucose after 60 minutes.

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.

Checking Your Glucose

Step Action Turn the Reader on by pressing 1 the Home Button or touch OR **Check Glucose** from the Home Screen. 2 Hold the Reader near the Sensor to scan it. Your Sensor wirelessly sends glucose readings to the Reader. If sounds are turned on, the Reader beeps when the Sensor has been successfully scanned. 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.

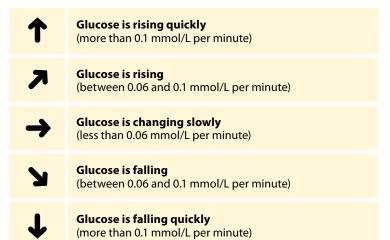
Sensor Glucose Readings



Notes:

- The graph displays glucose readings up to 21 mmol/L. Glucose readings above 21 mmol/L are displayed at 21 mmol/L.
- 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.

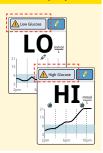
The Glucose Trend Arrow gives you an indication of the direction your glucose is going.



The following table shows messages you may see with your glucose readings.

Display

What To Do



If **LO** appears on the Reader, your reading is lower than 2.2 mmol/L. If **HI** appears on the Reader, your reading is higher than 27.8 mmol/L. 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, contact your health care professional **immediately**.



If your glucose is higher than 13.3 mmol/L or lower than 3.9 mmol/L, you will see a message on the screen. You can touch the message button for more information and set a reminder to check your glucose.

Display

What To Do



If your glucose is projected to be higher than 13.3 mmol/L or lower than 3.9 mmol/L within 15 minutes, you will see a message on the screen. You can touch the message button for more information and set a reminder to check your glucose.

Notes:

- 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.

Alarms

When in range of the Reader, your Sensor automatically communicates with the Reader to give you Low and High Glucose Alarms if you turn them **ON**. These alarms are turned **OFF** by default.

This section explains how to turn on and set alarms as well as how to use them. Please read all the information in this section before setting and using alarms.

CAUTION:

- For you to receive alarms, they must be turned **ON** and you should ensure that your Reader is within 6 meters (20 ft) of you at all times. The transmission range is 6 meters (20 ft) unobstructed. If you are out of range, you may not receive glucose alarms.
- To prevent missed alarms, make sure the Reader has sufficient charge and that sound and/or vibration are turned on.

IMPORTANT: What to know about glucose alarms

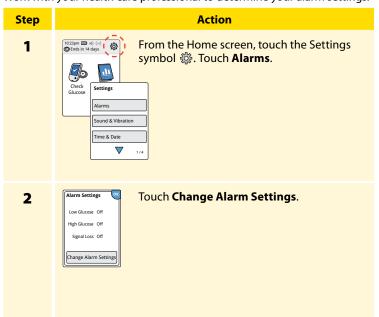
- Scan your Sensor often to check your glucose. If you get a Low or High Glucose Alarm, you must obtain a glucose result to determine what to do next.
- The Low and High Glucose Alarms should not be used exclusively to detect low or high glucose conditions. The glucose alarms should always be used along 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.

IMPORTANT: How to prevent missed alarms

- For you to receive alarms, they must be turned **ON** and you should ensure that your Reader is within 6 meters (20 ft) of you at all times. The Sensor itself will not issue alarms.
- If the Sensor is not communicating with the Reader, you will not receive glucose alarms, and you may miss detecting low glucose or high glucose episodes. You will see the () symbol on the Home screen when the Sensor is not communicating with the Reader. Make sure the Signal Loss Alarm is on so you will be notified if your Sensor has not communicated with the Reader for 20 minutes.
- Make sure the Reader's sound and/or vibration settings are on and your Reader is near you. If any alarms are turned on, the Home screen indicates the sound/vibration setting:
 - Sound and Vibration ON
 - Sound **ON**, Vibration **OFF**
 - Sound **OFF**, Vibration **ON**
 - Sound and Vibration **OFF**

Setting Alarms

Work with your health care professional to determine your alarm settings.



3



Select the alarm you want to turn on and set.
Low Glucose Alarm: Notifies you when your
glucose is below the level you set.
High Glucose Alarm: Notifies you when your
glucose is above the level you set.
Signal Loss Alarm: Notifies you when your
Sensor is not communicating with the Reader
and that you will not receive Low or High
Glucose Alarms

Alarm How to Set Low The Low Glucose Alarm is off by default. Glucose Touch the slider to turn the alarm Low Glucose Alarm Alarm on. The alarm level is initially set to 3.9 mmol/L. You can 7 use the arrows to change this value between 3.3 mmol/L and 5.6 mmol/L. If the alarm is on, done you will be notified when your glucose falls below the level you set. Touch **done** to save.

Alarm	How to Set
High Glucose Alarm	The High Glucose Alarm is off by default. Touch the slider to turn the alarm on. The alarm level is initially set to 13.3 mmol/L. You can use the arrows to change this value between 6.7 mmol/L and 22.2 mmol/L. If the alarm is on, you will be notified when your glucose rises above the level you set. Touch done to save.
Signal Loss Alarm	If the alarm is on, you will be notified when your Sensor has not communicated with your Reader for 20 minutes and you are not receiving Low or High Glucose Alarms. Touch done to save. Note: The Signal Loss Alarm automatically turns on the first time you turn the Low or High Glucose Alarm on.

Step

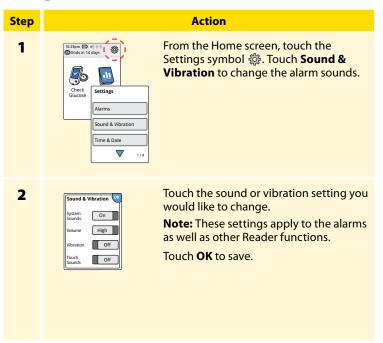
Action

4



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

Setting Alarm Sounds



Using Alarms

What you See

What it Means



The Low Glucose Alarm notifies you if your glucose drops below the level you set. The alarm does not include your glucose reading, so you need to scan your Sensor to check your glucose.

Touch **Dismiss Alarm & Check Glucose** or press the Home Button to dismiss the alarm and check your glucose. You will only receive one alarm per low glucose episode.



The High Glucose Alarm notifies you if your glucose rises above the level you set. The alarm does not include your glucose reading, so you need to scan your Sensor to check your glucose.

Touch **Dismiss Alarm & Check Glucose** or press the Home Button to dismiss the alarm and check your glucose. You will only receive one alarm per high glucose episode.

What you See



What it Means

The Signal Loss Alarm notifies you if your Sensor has not communicated with the Reader for 20 minutes and you are not receiving Low or High Glucose Alarms. Signal loss could be caused by the Sensor being too far away from the Reader (over 6 meters (20 ft)) or another issue such as an error or problem with your Sensor or Reader.

Touch **No** to dismiss the alarm.

Touch **Yes** or press the Home Button to dismiss the alarm and scan the Sensor.

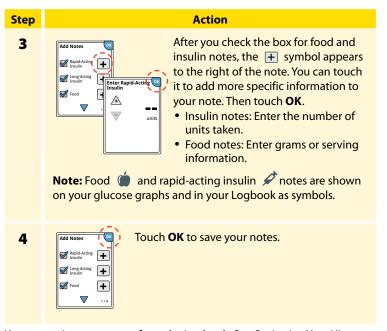
Notes:

- If you ignore an alarm, you will receive it again in 5 minutes if the condition still exists.
- If you receive an alarm while the Reader is connected to a computer, you must first unplug the Reader to scan the Sensor.

Adding Notes

Notes can be saved with your glucose readings. You can add a note at the time of your glucose reading or within 15 minutes after your reading was obtained. You can track food, insulin, exercise, and any medication you take.

Step Action From the Glucose Reading screen, add notes 1 by touching the 🧪 symbol in the upper right corner of the touchscreen. If you do not want to add notes, you can press the Home Button to go to the Home Screen or hold the Home Button to turn the Reader off. Select the checkbox next to the notes you would 2 Add Notes like to add. Touch the down arrow to view other note options. Food



You can review your notes from the Logbook. See *Reviewing Your History* section for more information.

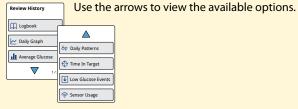
Reviewing Your History

Reviewing and understanding your glucose history can be an important tool for improving your glucose control. The Reader stores about 90 days of information and has several ways to review your past glucose readings, notes, and other information.

Step Action Press the Home Button to turn on 1 the Reader, Press the Home Button. again to go to the Home Screen. Touch the **Review History** icon.

Step Action

3



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

The Logbook and Daily Graph show detailed information, while other history options show summaries of information over a number of days.

Logbook



Entries for each time you scanned your Sensor or performed a blood glucose or ketone test. If you entered Notes with a glucose reading, the symbol appears in that row. For more information about the symbols, see *Reader Symbols* section.

Touch the entry to review the detailed information, including any Notes you entered. You can edit (change) Notes for the most recent Logbook entry, provided your glucose reading was within the last 15 minutes.

Daily Graph



A graph of your Sensor glucose readings by day. The graph shows your Target Glucose Range and symbols for food or rapid-acting insulin notes you have entered.

Notes:

- The graph displays glucose readings up to 21 mmol/L. Glucose readings above 21 mmol/L are displayed at 21 mmol/L.
- You might see gaps in the graph during times when you have not scanned at least once in 8 hours.

Other History Options

Use the arrows to view information about your last 7, 14, 30, or 90 days.



Average Glucose

Information about the average of your Sensor glucose readings. The overall average for the time is displayed above the graph. The average is also shown for four different 6-hour periods of the day. Readings above or below your Target Glucose Range are orange, while readings in range are blue.



Daily Patterns

A graph showing the pattern and variability of your Sensor glucose over a typical day. The thick black line shows the median (midpoint) of your glucose readings. The gray shading represents a range (10-90 percentiles) of your Sensor readings.

Note: Daily Patterns needs at least 5 days of glucose data.



A graph showing the percentage of time your Sensor glucose readings were above, below, or within your Target Glucose Range.

Time In Target



Low Glucose Events

Information about the number of low glucose events measured by your Sensor. A low glucose event is recorded when your Sensor glucose reading is lower than 3.9 mmol/L for 15 minutes or longer. The total number of events is displayed above the graph. The bar graph displays the low glucose events in four different 6-hour periods of the day.



Sensor Usage

Information about how often you scan your Sensor. The Reader reports 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.

Removing Your Sensor

Step Action 1 Pull up the edge of the adhesive that keeps your Sensor attached to your skin. Slowly peel away from your skin in one motion. **Note:** Any remaining adhesive residue on the skin can be removed with warm soapy water or isopropyl alcohol. Discard the used Sensor. See Disposal section. 2 When you are ready to apply a new Sensor, follow the instructions in the Applying Your Sensor and Starting Your Sensor sections. If you removed your last Sensor before the end of the specified wear duration, you will be prompted to confirm that you would like to start a new Sensor when you first scan it.

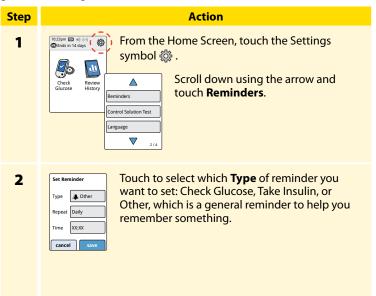
Replacing Your Sensor

Your Sensor automatically stops working after the wear duration and must be replaced. You should also replace your Sensor if you notice any irritation or discomfort at the application site or if the Reader reports a problem with the Sensor currently in use. Taking action early can keep small problems from turning into larger ones.

CAUTION: If the glucose readings from the Sensor do NOT seem to match with how you feel, check to make sure that your Sensor has not come loose. If the Sensor tip has come out of your skin, or your Sensor is coming loose, remove the Sensor and apply a new one.

Using Reminders

You can use Reminders to help you remember things like checking your glucose or taking insulin.



Step	Action		
3	Touch to select how often you want the reminder to Repeat : Once, Daily, or Timer. Note: You can set the reminders for a specific time (e.g. 8:30 am) or as a timer (e.g. 3 hours from the current time).		
4	Set the reminder Time using the arrows on the touchscreen. Touch save .		
5	From the Reminders screen, you can turn the reminder On/Off or add new reminders. Touch done to return to the Home Screen.		



You will get your reminder even if the Reader is turned off. Touch **OK** to dismiss your reminder or **snooze** to be reminded again in 15 minutes.

Note: Reminders will not appear if the Reader is connected to a computer.

Using the Built-in Meter

The Reader has a built-in meter that can be used to test your blood glucose and blood ketone, or to test the meter and strips with control solution.

WARNING: Do NOT use the built-in meter while the Reader is connected to an electrical outlet or a computer.

IMPORTANT:

- Use the Reader within the test strip operating temperature range as blood glucose and ketone results obtained outside the range may be less accurate.
- Use only FreeStyle Optium test strips.
- Use a test strip immediately after removing from its foil packet.
- Only use a test strip once.
- Do not use expired test strips as they may cause inaccurate results.
- 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 Logbook and not in other history options.
- Refer to your lancing device instructions for use for how to use your lancing device.

Blood Glucose Testing

You can use the built-in meter to check your blood glucose, whether you are wearing a Sensor or not. You can perform a blood glucose test on your fingertip or approved alternate site. Be sure to read the test strip instructions for use prior to using the built-in meter.

Step

Action

1



CAUTION: If you think you have low glucose (hypoglycemia) or you suffer from hypoglycemia unawareness, test on your fingers.

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

Note: Avoid areas near bones and areas with lots of hair. If you get a bruise, consider selecting another site.

Step Action

2



Check the test strip expiration date.

E.g. Expiration date: March 31, 2030

3



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.

4



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

5



Use your lancing device to obtain a blood drop and apply blood to the white area at the end of the test strip.

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

Note: See test strip instructions for use for re-application instructions.

Action



You will see a butterfly on the screen while you wait for your result. If sounds are turned on, the Reader beeps once when your result is ready.

After reviewing your result, remove and discard the used test strip according to test strip instructions for use.

IMPORTANT: After performing a blood glucose test, wash your hands and the test site with soap and water and thoroughly dry them.



Your Blood Glucose Results

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

Note: Contact your health care professional if you have symptoms that do not match your test results.

Display

What To Do



If **LO** appears on the Reader, your result is lower than 1.1 mmol/L. If **HI** appears on the Reader, your result is higher than 27.8 mmol/L. You can touch the message button for more information. Check your blood glucose again with a test strip. If you get a second **LO** or **HI** result, contact your health care professional **immediately**.



If your glucose is higher than 13.3 mmol/L or lower than 3.9 mmol/L, you will see a message on the screen. You can touch the message button for more information and set a reminder to check your glucose.

After you get your blood glucose result, you can add Notes by touching the symbol. If you do not want to add a Note, press the Home Button to go to the Home Screen or hold the Home Button to turn the Reader off.

Blood Ketone Testing

You can use the built-in meter to check your blood ketone (β-hydroxybutyrate). It is important to consider doing this when:

- You are sick
- Your glucose is higher than 13.3 mmol/L
- You and your health care professional decide you should

Note: Be sure to read the test strip instructions for use prior to performing a ketone test.

Step	Action		
1		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.	
		Note: Use only fingertip samples for blood ketone testing.	

Action Step Check the test strip expiration date. 2 E.g. Expiration date: March 31, 2030 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. Note: Use only blood ketone test strips. Do not put urine on the test strip. Insert the test strip with the three black lines facing up. Push the strip in until it stops.

5



Use your lancing device to obtain a blood drop and apply blood to the white area at the end of the test strip.

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

Note: See test strip instructions for use for re-application instructions.



You will see a butterfly on the screen while you wait for your result. If sounds are turned on, the Reader beeps once when your result is ready.

After reviewing your result, remove and discard the used test strip according to test strip instructions for use.

IMPORTANT: After performing a blood ketone test, wash your hands with soap and water and thoroughly dry them.



Your Blood Ketone Results

Blood ketone results are marked on the results screen and in the Logbook with the word **Ketone**.

Notes:

- Blood ketone is expected to be lower than 0.6 mmol/L.
- Blood ketone may be higher when you are sick, fasting, have exercised hard, or if glucose levels are not controlled.
- If your blood ketone result remains high or becomes higher than 1.5 mmol/L, contact your health care professional immediately.

Display

What To Do



If your blood ketone is high, you will see a message on the screen. You can touch the message button for more information.



If **HI** appears on the Reader, your ketone result is higher than 8 mmol/L. You can touch the message button for more information. Repeat the ketone test with a new test strip. If you get a second **HI** result, contact your health care professional **immediately**.

Control Solution Testing

You should do a control solution test when you are not sure of your test strip results and want to check that your Reader and test strips are working properly. You can do a control solution test with a blood glucose or ketone test strip.

IMPORTANT:

- Control solution results should fall within the control solution range printed on the test strip instructions for use.
- Do NOT use control solution past the expiration date. Discard control solution 3 months after opening. Refer to control solution instructions for use.
- The control solution range is a target range for control solution only, not for your blood glucose or ketone results.
- The control solution test does not reflect your blood glucose or ketone levels.
- Use only MediSense glucose and ketone control solution.
- Check that the LOT number printed on the test strip foil packet and instructions for use match.
- Replace the cap securely on the bottle immediately after use.
- Do NOT add water or other liquid to the control solution.
- Contact Customer Service for information on how to obtain control solution.

Action Step From the Home Screen, touch the Settings 10:23pm **□** (0) } ((+) Ends in 14 days symbol 🔅. Scroll down using the arrow and touch Control Solution Test. Glucose History Reminders Control Solution Test Language 2 Check the test strip expiration date. E.g. Expiration date: March 31, 2030 Open the foil test strip packet at the notch and 3





tear down to remove the test strip.

Step

Action

4



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

5



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

If sounds are turned on the Reader beens once

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



You will see a butterfly on the screen while you wait for the result. If sounds are turned on, the Reader beeps once when the result is ready.



Blood Glucose Control Solution Test

Control Solution Results

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

Control solution results are marked on the results screen and in the Logbook with a \strace{\screen}\ symbol.



Ketone Control Solution Test

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

Using the Rapid-Acting Insulin Calculator

This optional feature requires an understanding of the use of insulin. Misuse or misunderstanding of this feature and the suggested dose may lead to inappropriate insulin dosing. The calculator suggests doses for rapid-acting insulin only. The calculator is only for use with fingerstick blood glucose results from the built-in meter. You cannot use the insulin calculator with Sensor glucose readings.

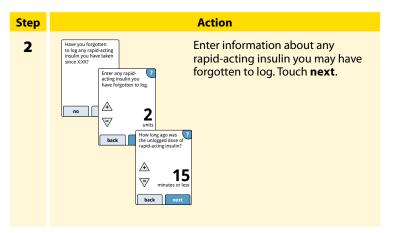
An access code is required to set up or change the rapid-acting insulin calculator settings. This access code is available only to your health care professional. Work with your health care professional to set up or change the calculator for you.

If you are not sure about the calculator's suggested dose, you can adjust it based on instructions from your health care professional.

CAUTION: The rapid-acting insulin calculator cannot account for all the factors that may affect your insulin dose. These include incorrectly entered data, incorrectly set date or time, un-logged insulin, smaller or larger meals, sickness, exercise, etc. It is important that you review your suggested dose and account for these factors before taking insulin.

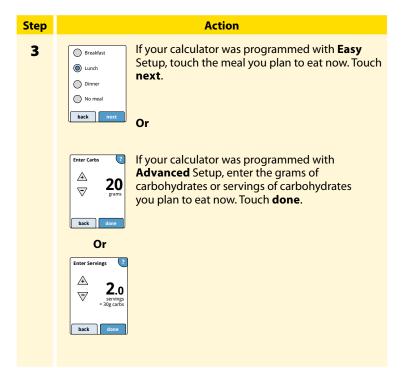
If you have added a rapid-acting insulin note to a glucose result without indicating how much insulin you took, the calculator will not be available for up to 8 hours.

Test your blood glucose on your finger. Touch Insulin Calculator from the blood glucose results screen. You can also access the insulin calculator by touching the calculator icon next to Rapid-Acting Insulin from the Add Notes screen.



Notes:

- You have up to 15 minutes after testing your blood glucose to access
 the calculator. If the Reader turns off or if you have navigated away
 from the result screen, you can go to the Logbook and touch add or
 edit notes to access the calculator from your last blood glucose entry.
- If your blood glucose result is below 3.3 mmol/L, the calculator is not available.
- Do not use control solution to obtain a suggested dose.



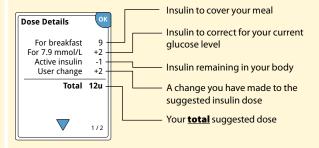
Step

Action

4



Review your suggested dose. If needed, use the arrow buttons to adjust your suggested dose for any planned activity, a smaller or larger meal, sickness, etc. Touch the j symbol to see details of what is included in your suggested dose.



Step	Action
5	Touch log dose to save to your Logbook and take your dose. Your dose is only saved to the Logbook if you touch log dose .
	CAUTION: It is important to log all your rapid-acting insulin doses so your Reader can account for active insulin when calculating your suggested doses. Failure to log all your rapid-acting insulin doses may result in a suggested dose that is too high.
	Note: The total dose is rounded up or down to the nearest whole number unless your health care professional has changed your Reader to count by half unit steps.



If your health care professional turned on the Active Insulin feature, the $\stackrel{\frown}{\bowtie}$ symbol may appear on your Home Screen. It shows an estimate of the amount of rapid-acting insulin left in your body and how much longer it may be active. Touch the $\stackrel{\frown}{\bowtie}$ symbol to see more information about the remaining rapid-acting insulin from your logged doses.

Estimated percentage of active insulin remaining in your body











No symbol

100-87%

86-62%

61-37%

36-12%

11-1%

0%

Charging the Reader

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





Charging

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

CAUTION: Be sure to select a location for charging that allows the power adapter to be easily unplugged.

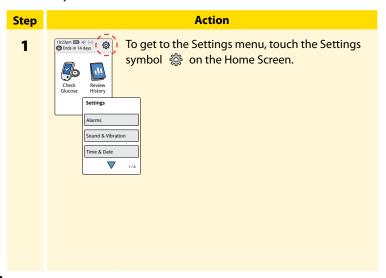
CAUTION: The maximum surface temperature of the Reader could go as warm as 47°C. The maximum surface temperature of the power adapter when charging could go as warm as 54°C. Under these conditions, do not hold the Reader or the power adapter for five minutes or more. People with disorders of peripheral circulation or sensation should use caution at this temperature.

Notes:

- You must charge the Reader when the battery is low to keep using the Reader.
- To fully charge the battery, charge the Reader for at least 3 hours.
- Only use the USB cable and power adapter included with the system.
- Fully charge your Reader before storing it for more than 3 months.

Changing the Reader Settings

You can go to the Settings menu to change many settings on the Reader, like alarm settings, sound & vibration, time & date, and report settings. The Settings menu is also where you go to do a control solution test or to check the System status.



Step	Action
2	Touch the setting you want to change: Alarms – See <i>Alarms</i> section for information on setting alarms
	Sound & Vibration – Set Reader sound and vibration. These also apply to alarms
	Time & Date – Change the Time or Date
	Reminders – See <i>Using Reminders</i> section for information on setting reminders
	Control Solution Test – Perform a control solution test
	Language – Change the language on the Reader (option only available on Readers with multiple languages)
	System Status – Check Reader information and performance
	View System Information: The Reader will display information about your System includings.
	information about your System including: - Current Sensor end date and time
	Reader serial number and version number
	 Serial numbers and status codes of most recent Sensors (up to three)
	- Sensor version for most recent Sensor
	- Number of Sensors that have been used with Reader
	 Number of tests that have been performed using test strips

Step	Action
2 (cont.)	 View Event Logs: A list of events recorded by the Reader, which may be used by Customer Service to help troubleshoot your System
	 Perform a Reader Test: The Reader Test will perform internal diagnostics and allow you to check that the display is showing all pixels, sounds and vibrations are working, and the Touchscreen is responding when touched
	Report Settings – Work with your health care professional to set your Target Glucose Range, which is displayed on glucose graphs on the Reader and used to calculate your Time In Target. Your Target Glucose Range is not related to your alarm settings Calculator Settings – Review the currently programmed settings (option only available if your health care professional has activated your insulin calculator) Reader Basics – Review the information screens shown during the Reader setup Professional Options – Set by health care professionals only

Living With Your System

Activities

Your System can be used during a wide variety of activities.

Activity	What You Need To Know
Bathing, Showering, and Swimming	The Reader is not water-resistant and should NEVER be submerged in water or other liquid. Your Sensor is water-resistant and can be worn while bathing, showering, or swimming. Note: Do NOT take your Sensor deeper than 1 meter (3 feet) or immerse it longer than 30 minutes in water.
Sleeping	Your Sensor should not interfere with your sleep. It is recommended that you scan your Sensor before going to sleep and when you wake up because your Sensor holds 8 hours of data at a time. If you want to receive alarms or reminders while you are sleeping, place the Reader nearby. You should also make sure sound and/or vibration is turned on.

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What You Need To Know

Traveling by Air

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

- Some airport full-body scanners include x-ray or millimeter radio-wave, which you cannot expose your Sensor to. The effect of these scanners has not been evaluated and the exposure may damage the Sensor or cause inaccurate results. To avoid removing your Sensor, you may request another type of screening. If you do choose to go through a full-body scanner, you must remove your Sensor.
- The Sensor can be exposed to common electrostatic (ESD) and electromagnetic interference (EMI), including airport metal detectors. You can keep your Reader on while going through these.

Note: If you are changing time zones, you can change the time and date settings on the Reader by touching the Settings symbol from the Home Screen, then **Time & Date**. Changing the time and date affects the graphs and statistics.

Activity	What You Need To Know
Traveling by Air (cont.)	The

Cleaning

You may clean the Reader as often as desired using a cloth dampened with a mixture of 1 part household bleach to 9 parts water. Gently wipe the exterior of the Reader and allow to air dry. Cracking, flaking, or damage of the Reader housing are signs of deterioration. If you notice any of these signs, stop using the Reader and contact Customer Service.

CAUTION: Do NOT place the Reader in water or other liquids. Avoid getting dust, dirt, blood, control solution, water, or any other substance in the test strip or USB ports.

Maintenance

The System has no serviceable parts.

Disposal

Reader, Sensor, USB Cable, and Power Adapter:

These devices must not be disposed of via municipal waste collection. Separate collection for electrical and electronic equipment waste per Directive 2012/19/EU in the European Union is required. Contact the manufacturer for details. As Readers and Sensors may have been exposed to bodily fluids, you may wipe prior to disposing, such as by using a cloth dampened with a mixture of one part household bleach and nine parts water.

Note: Readers and Sensors contain non-removeable batteries and must not be incinerated. Batteries may explode upon incineration.

Sensor Applicator:

Please consult your local waste management authority for instructions on how to dispose Sensor Applicators at a designated sharps collection site. Ensure the cap is on the Sensor Applicator as it contains a needle.

Sensor Pack:

Used Sensor Packs may be disposed of via municipal waste collection.

Troubleshooting

This section lists problems or observations that you may have, the possible cause(s), and recommended actions. If the Reader experiences an error, a message will appear on the screen with directions to resolve the error.

Reader Does Not Power On

Problem	What It May Mean	What To Do
Reader does not power on after you press the Home Button or insert a test strip.	Reader battery is too low.	Charge the Reader.
	Reader is outside of its operating temperature range.	Move the Reader to a temperature between 10°C and 45°C and then try to power it on.

If the Reader still does not power on after trying these steps, contact Customer Service.

Problems at the Sensor Application Site

Problem	What It May Mean	What To Do
The Sensor is not sticking to your skin.	The site is not free of dirt, oil, hair, or sweat.	 Remove the Sensor. Clean the site with a plain soap and water and consider shaving. Follow the instructions in Applying Your Sensor and Starting Your Sensor sections.
Skin irritation at the Sensor application site.	Seams or other constrictive clothing or accessories causing friction at the site.	Ensure that nothing rubs on the site.
	You may be sensitive to the adhesive material.	If the irritation is where the adhesive touches skin, contact your health care professional to identify the best solution.

Problems Starting Your Sensor or Receiving Sensor Readings

Display	What It May Mean	What To Do
New Sensor Starting Up	Sensor is not ready to read glucose.	Wait until the 60 minute Sensor start-up period has completed.
Scan Timeout	The Reader is not held close enough to the Sensor.	Hold the Reader near the Sensor to scan it. Bring the screen of the Reader close to the Sensor.
Sensor Ended	The Sensor life has ended.	Apply and start a new Sensor.
Signal Loss Alarm	Sensor has not automatically communicated with the Reader in the last 20 minutes.	Make sure the Reader is within 6 meters (20 ft) of the Sensor. Try scanning the Sensor to get a glucose reading. If the Signal Loss Alarm shows again after scanning your Sensor, contact Customer Service.

Display	What It May Mean	What To Do
New Sensor Found	You scanned a new Sensor before your previous Sensor ended.	Your Reader can only be used with one Sensor at a time. If you start a new Sensor, you will no longer be able to scan your old Sensor. If you would like to begin using the new Sensor, select "Yes".
Scan Error	The Reader was unable to communicate with the Sensor.	Try scanning again. Note: You may need to move away from potential sources of electromagnetic interference.
Sensor Error	The System is unable to provide a glucose reading.	Scan again in 10 minutes.

Display	What It May Mean	What To Do
Glucose Reading Unavailable	Your Sensor is too hot or too cold.	Move to a location where the temperature is appropriate and scan again in a few minutes.
Sensor Already in Use	The Sensor was started by another device.	Your Reader can only be used with a Sensor that it started. Scan the Sensor again with the device that started it. Or, apply and start a new Sensor.
Check Sensor	The Sensor tip may not be under your skin.	Try to start your Sensor again. If Reader displays "Check Sensor" again, your Sensor was not applied properly. Apply and start a new Sensor.
Replace Sensor	The System has detected a problem with your Sensor.	Apply and start a new Sensor.

Problems Receiving Glucose Alarms

Problem	What It May Mean	What To Do
You are not receiving	You have not turned alarms on.	Touch the Settings symbol and then select Alarms .
glucose alarms.	The Sensor is not communicating with your Reader. or There may be a problem with your Sensor or Reader.	The Sensor must be within range (6 meters (20 ft)) of the Reader for you to receive alarms. Make sure that you are within this range. You will see the () symbol at the top of the Home screen when your Sensor is not communicating with the Reader. If the Signal Loss Alarm is on, you will be notified if there has been no communication for 20 minutes. Try scanning your Sensor. If the Signal Loss Alarm is on and shows again after scanning your Sensor, contact Customer Service.
	Sound/vibration are turned off.	Check the Reader's sound and vibration settings to confirm sound/vibration are on.

Problem	What It May Mean	What To Do
You are not receiving glucose alarms. (cont.)	You may have set an alarm level that is higher or lower than you intended.	Confirm your alarm settings are appropriate.
	You have already dismissed this type of alarm.	You will receive another alarm when a new low or high glucose episode starts.
	Your Sensor has ended.	Replace your Sensor with a new one.
	Your Reader battery is dead.	Charge your Reader with the included USB cable.

Blood Glucose or Ketone Error Messages

Error Message	What It May Mean	What To Do
E-1	The temperature is too hot or too cold for the Reader to work correctly.	 Move the Reader and test strips to a location where the temperature is within the test strip operating range. (See test strip instructions for use for the appropriate range.) Wait for the Reader and test strips to adjust to the new temperature. Repeat the test using a new test strip. If the error reappears, contact Customer Service.
E-2	Reader error.	 Turn off the Reader. Repeat the test using a new test strip. If the error reappears, contact Customer Service.

Error Message	What It May Mean	What To Do
E-3	Blood drop is too small. or Incorrect test procedure. or There may be a problem with the test strip.	 Review the testing instructions. Repeat the test using a new test strip. If the error reappears, contact Customer Service.
E-4	The blood glucose level may be too high to be read by the system. or There may be a problem with the test strip.	 Repeat the test using a new test strip. If the error reappears, contact your health care professional immediately.

Error Message	What It May Mean	What To Do
E-5	Blood was applied to the test strip too soon.	 Review the testing instructions. Repeat the test using a new test strip. If the error reappears, contact Customer Service.
E-6	The test strip may not be compatible with the Reader.	 Check that you are using the correct test strip for the Reader. (See test strip instructions for use to verify your strip is compatible with the Reader.) Repeat the test using a test strip for use with your Reader. If the error reappears, contact Customer Service.

Error Message	What It May Mean	What To Do
E-7	Test strip may be damaged, used, or the Reader does not recognize it.	 Check that you are using the correct test strip for the Reader. (See test strip instructions for use to verify your strip is compatible with the Reader.) Repeat the test using a test strip for use with your Reader. If the error reappears, contact Customer Service.
E-9	Reader error.	 Turn off the Reader. Repeat the test using a new test strip. If the error reappears, contact Customer Service.

Problems Checking Your Blood Glucose or Ketone

Problem	What It May Mean	What To Do
The Reader does not start a test after inserting a test strip.	Test strip is not inserted correctly or not inserted fully into the strip port.	 With the 3 black lines facing up, insert the test strip into the strip port until it stops. If the Reader still does not start a test, contact Customer Service.
	Reader battery is too low.	Charge the Reader.
	The test strip is damaged, used, or unrecognizable by the Reader.	Insert a new FreeStyle Optium test strip.
	Reader is outside of its operating temperature range.	Move the Reader to a temperature between 10°C and 45°C and then try to power it on.
	Reader is in a power saving mode.	Press the Home Button then insert a test strip.

Problem	What It May Mean	What To Do
The test does not start after applying the blood sample.	Blood sample is too small.	 See test strip instructions for use for re-application instructions. Repeat the test using a new test strip. If the test still does not start, contact Customer Service.
	Sample applied after the Reader turned off.	 Review the testing instructions. Repeat the test using a new test strip. If the test still does not start, contact Customer Service.
	Problem with Reader or test strip.	 Repeat the test using a new test strip. If the test still does not start, contact Customer Service.

Perform a Reader Test



If you think the Reader is not working properly, you can check the Reader by performing a Reader Test. Touch the Settings symbol from the Home Screen, select **System Status** and then select **Reader Test**.

Note: The Reader Test will perform internal diagnostics and will allow you to check that the display, sounds, and touchscreen are working properly.

Customer Service

Customer Service is available to answer any questions you may have about your System. Please go to the back cover of this manual for your Customer Service phone number.

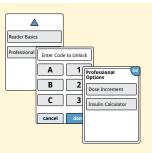
Reporting of Serious Incidents

If a serious incident has occurred in relation to this device it should be reported to Customer Service. In European Union Member States, serious incidents should also be reported to the competent authority, (the government department responsible for medical devices) in your country. Please refer to your government website for details of how to contact your competent authority.

A 'serious incident' means any incident that directly or indirectly led, might have led or might lead to:

- the death of a patient, user or other person,
- the temporary or permanent serious deterioration of a patient's, user's or other person's state of health.

This section is only meant for health care professionals. It describes the access code-protected features of the Reader. Health care professionals can change dose increments or set up the insulin calculator.



From the Home Screen, touch the Settings symbol . Scroll down using the arrows and touch **Professional Options**. Enter the access code.

Note: If you are a health care professional, contact Customer Service for more information.

Changing Dose Increments

You can set the insulin dose increments to either 1.0 or 0.5 units for use with the Rapid-acting insulin calculator and insulin notes.



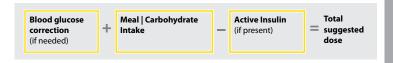
From the **Professional Options** screen, select **Dose Increment**. Then choose **1** unit or **0.5** unit. Touch **done**.

Setting up the Insulin Calculator

The insulin calculator can help your patients calculate their rapid-acting insulin doses based on meal and fingerstick blood glucose level information. From the **Professional Options** screen, select **Insulin Calculator**.

CAUTION: This feature requires an understanding of the use of insulin. Misuse or misunderstanding of this feature and the suggested dose may lead to inappropriate insulin dosing. The calculator suggests doses for rapid-acting insulin only.

Complete the setup to store your patient's individual insulin settings in the Reader. The calculator uses the fingerstick blood glucose results, meal information and the stored settings to calculate a suggested insulin dose based on this formula:



You can set up the insulin calculator using the Easy or Advanced settings. The Easy Setup is for patients who start with a fixed dose of rapid-acting insulin for meals. The Advanced Setup is for patients who count carbohydrates (in grams or servings) to adjust their rapid-acting insulin dose for meals.

You must complete all of the steps in the insulin calculator setup in order for the patient to use the calculator. When you have finished setting up the insulin calculator, you can review the settings to make sure they are correct for your patient. You can also review settings at a later time. Touch the Settings symbol from the Home Screen, then select **Calculator Settings**.

IMPORTANT: If the time on the Reader is wrong, this may lead to an incorrect suggested dose.

Easy Setup of the Insulin Calculator

Step Action Choose the **Easy** option on the slide bar and Choose Setup Option touch next. **Note:** You need to know your patient's For patients who start with a fixed dose of rapid-acting meal-time insulin doses, target glucose range, insulin at meals and correction factor back Enter the meal-time rapid-acting insulin doses. Breakfast Touch **next** after each entry. Enter the blood glucose **Correction Target**. This 3 Correction Target is the desired target range for blood glucose values before meals. Touch next. 3.9 to 7.2 mmol **Note:** If you just want to set one target instead 7 of a range, set both the low and high values to

the same number.

Step

4



Enter the **Correction Factor** (for example: if 1 unit of insulin lowers blood glucose 2.8 mmol/L, then the correction factor is 2.8). If the blood glucose value is outside the blood glucose target, the calculator will use the correction target and factor to calculate a correction dose.

Notes:

 If your patient does not take correction insulin, touch the down arrow to go below 1 to set "No correction insulin". If you set "No correction insulin", the calculator only includes meal doses. Additionally, active insulin is not tracked or calculated.

Action

- The calculator corrects a blood glucose value to the single target or the average of the target range.
- The calculator will not suggest a dose that is estimated to drop the blood glucose below the lower end of the target range or single target.

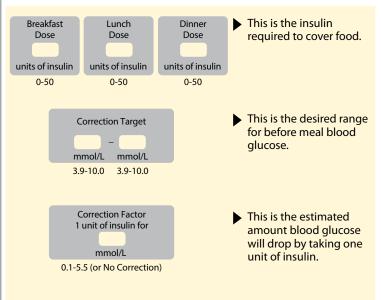
Touch **next**. Then touch **done** to complete the setup. You can now review the calculator settings. Touch **OK** when done.

Notes about the Easy Option:

- The calculator estimates the amount of rapid-acting insulin still in the body and how much longer it may be active (if the correction factor is set to "no correction insulin", active insulin is not calculated). The active insulin estimate is based on a 4-hour insulin duration calculated from the time and amount of the last logged rapid-acting insulin dose.
- Both meal and correction doses are included in the active insulin tracking.
- Insulin doses calculated 0-2 hours after a previously logged dose
 will only include a meal dose. Active insulin will not be subtracted
 from the meal or carbohydrate dose, and a correction dose will not
 be included even if the blood glucose is outside the target. During
 this time period, the previous dose has not reached peak action and
 additional correction doses, referred to as `insulin stacking', may
 result in hypoglycemia.
- Insulin doses calculated 2-4 hours after a previously logged dose will have active insulin subtracted from the suggested dose.
- All previously injected rapid-acting insulin should be logged to ensure accurate active insulin tracking and calculations.

Calculator Settings - Easy Option

This page can be used to record insulin calculator settings.



Changes to these settings can only be made by a health care professional.

Advanced Setup of the Insulin Calculator

Action Step Choose the **Advanced** option on the slide bar Choose Setup Option and touch next. Advanced **Note:** You need to know your patient's meal-(in grams or servings) to adjust their rapid-acting insulin dose time insulin settings, target glucose range, at meals. correction factor, and insulin duration. back Touch to select how meal/carbohydrate 2 Enter food by: information will be entered. Touch next. Grams of carbs For **Grams of carbs**, go to Step 3. Servings For **Servings**, go to Step 4. back

Step 3

Action

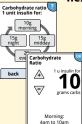
Carbohydrate Ratio 2

1 u insulin for 100

The system of day of d

If you chose to enter Grams of carbs in Step 2: The rapid-acting insulin dose suggestion is based on grams of carbs.

Enter the **Carbohydrate Ratio** (1 unit of rapidacting insulin for ______ grams of carbs). Touch **next** when complete.



Note: If you want to set different carbohydrate ratios for different times of day, touch the option **by time of day**. Touch each time period to change the carbohydrate ratio. Touch **OK** after each entry to save. Touch **done**.

Go to Step 5.

Time of day blocks cannot be adjusted. They correspond to the following times:

 Morning
 4:00 AM - 9:59 AM (04:00 - 09:59)

 Midday
 10:00 AM - 3:59 PM (10:00 - 15:59)

 Evening
 4:00 PM - 9:59 PM (16:00 - 21:59)

 Night
 10:00 PM - 3:59 AM (22:00 - 03:59)

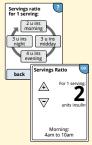
Action

4



If you chose to enter Servings in Step 2: The rapid-acting insulin dose suggestion is based on servings.

Enter the **Servings Definition** (10 to 15 grams of carbs) and touch **next**. Enter the **Servings Ratio** (____ units of rapid-acting insulin per 1 serving). Touch **next** when complete.



Note: If you want to set different serving ratios for different times of day, touch the option **by time of day**. Touch each time period to change the servings ratio. Touch **OK** after each entry to save. Touch **done**.

Step

5



Select how you want your patient to correct their alucose. Touch **next**.





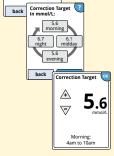
How does your patient correct their

To a single target

To a target range

glucose?

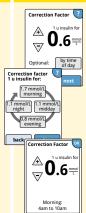
Enter the **Correction Target** value or range. This is the desired target value or range for blood glucose values before meals. Touch **next** when complete.



Note: If the Correction Target is based on time of day, touch the option **by time of day**. Touch each time period to change the correction target for that period. Touch **OK** after each entry to save. Touch **done**.

Action

7



Enter the **Correction Factor** (for example: if 1 unit of insulin lowers blood glucose 2.8 mmol/L, then the correction factor is 2.8). If the blood glucose reading is outside the blood glucose target, the calculator will use the correction target and factor to calculate a correction dose. Touch **next** when complete.

Notes:

- If the Correction Factor is based on time of day, touch the option by time of day. Touch each time period to change the correction factor for that period. Touch OK after each entry to save. Touch done.
- The calculator corrects a blood glucose value to the single target or the average of the target range.
- The calculator will not suggest a dose that is estimated to drop the blood glucose below the lower end of the target range or single target.

Step

8

Insulin Duration

Action

Enter the **Insulin Duration**. This is the amount of time that rapid-acting insulin remains active in the patient's body.

Touch next.

IMPORTANT: In general, the insulin duration for rapidacting insulin ranges from 3-5 hours, and can vary for each person¹. The Reader allows an insulin duration from 3-8 hours.

¹ Product Inserts: HumaLog®, NovoLog®, Apidra®

Action

9



Select whether or not to show the **Active Insulin** symbol $\stackrel{\sim}{\sim}$ on the Home Screen.

This symbol shows an estimate of the amount of rapid-acting insulin still in the body and how much longer it may be active. If you select "No", active insulin is still included in the suggested dose calculation.

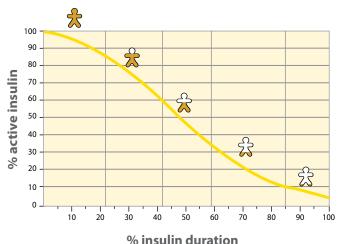
Touch **next**. Then touch **done** to complete the setup. You can now review the calculator settings. Touch **OK** when done.

Notes about the Advanced Option:

- The calculator estimates the amount of rapid-acting insulin still in the body and how much longer it may be active. The active insulin estimate is calculated from the set insulin duration, the time, and amount of the last logged rapid-acting insulin dose.
- Both meal and correction doses are included in the active insulin tracking.
- Insulin doses calculated 0-2 hours after a previously logged dose
 will only include a meal dose. Active insulin will not be subtracted
 from the meal or carbohydrate dose, and a correction dose will not
 be included even if the blood glucose is outside the target. During
 this time period, the previous dose has not reached peak action and
 additional correction doses, referred to as 'insulin stacking', may result
 in hypoglycemia.
- Insulin doses calculated between 2 hours and the set insulin duration
 will have active insulin subtracted from the suggested dose (for
 example if insulin duration is set at 5 hours, active insulin will be
 subtracted from doses calculated between 2-5 hours).
- All previously injected rapid-acting insulin should be logged to ensure accurate active insulin tracking and calculations.

This graph shows how the insulin calculator estimates the amount of active insulin as a function of logged insulin dose and insulin duration over time. It also shows the relationship between the $\frac{1}{6}$ symbol and amount of active insulin.

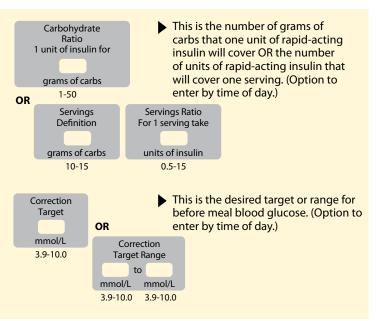
Active insulin curvilinear model



Adapted from Mudaliar et al. Diabetes Care, Volume 22(9), Sept 1999, pp 1501-1506

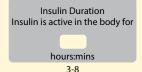
Calculator Settings - Advanced Option

This page can be used to record insulin calculator settings.





▶ This is the estimated amount blood glucose will drop by taking one unit of insulin. (Option to enter by time of day.)



▶ This is the amount of time that a dose of rapid-acting insulin remains active in the body.

Active Insulin feature?





Changing the Insulin Calculator Settings

Step Action From the Home Screen, touch the Settings symbol 🔅 . Scroll down using the arrows and Reader Basics touch **Professional Options**. Enter the access Professional Options code. Touch Insulin Calculator. 4/4 Touch Turn Off Calculator to turn off the insulin 2 Calculator Settings calculator or Change Calculator Settings to Turn Off Calculator change the insulin calculator settings. Change Calculator Settings Note: If you turn off the insulin calculator, your patient will no longer see the calculator button after a blood glucose test. You can turn back the calculator back on by repeating the insulin calculator setup.

System Specifications

See test strip and control solution instructions for use for additional specifications.

Sensor Specifications

Sensor glucose assay method	Amperometric electrochemical sensor
Sensor glucose reading range	2.2 to 27.8 mmol/L
Sensor size	5 mm height and 35 mm diameter
Sensor weight	5 grams
Sensor power source	One silver oxide battery
Sensor life	FreeStyle Libre 2 Sensor: Up to 14 days FreeStyle Libre 2 Plus Sensor: Up to 15 days
Sensor memory	8 hours (glucose readings stored every 15 minutes)

Sensor transmission range	6 meters (20 ft) unobstructed
Operating temperature	10°C to 45°C
Sensor Applicator and Sensor Pack storage temperature	4°C to 25°C
Operating and storage relative humidity	10-90%, non-condensing
Sensor water resistance and ingress protection	IP27: Can withstand immersion into one meter (3 ft) of water for up to 30 minutes. Protected against insertion of objects >12mm diameter
Operating and storage altitude	-381 meters (-1,250 ft) to 3,048 meters (10,000 ft)
Radio Frequency	2.402-2.480 GHz BLE; GFSK; 0dBm EIRP

Reader Specifications

Blood glucose assay range	1.1 to 27.8 mmol/L
Blood ketone assay range	0.0 to 8.0 mmol/L
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	10°C to 45°C
Reader storage temperature	-20°C to 60°C
Operating and storage relative humidity	10-90%, non-condensing

Reader moisture protection	Keep dry
Operating and storage altitude	-381 meters (-1,250 ft) to 3,048 meters (10,000 ft)
Reader display timeout	60 seconds (120 seconds when test strip is inserted)
Radio Frequency	13.56 MHz RFID; ASK Modulation; 124 dBuV/m 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
Power Adapter	Abbott Diabetes Care PRT25613 Operating temperature: 10°C to 40°C
USB Cable	Abbott Diabetes Care PRT21373 Length: 94 cm (37 inches)

Rapid-Acting Insulin Calculator Specifications

Parameter	Unit	Range or Value
Correction target	mmol/L	3.9 to 10.0
Carbohydrate ratio	1 unit per X grams of carbs	1 to 50
Servings ratio	Units of insulin per serving	0.5 to 15
Servings definition	Grams of carbs	10 to 15
Mealtime insulin doses (breakfast, lunch, dinner)	Units of insulin	0 to 50
Correction factor	1 unit per X mmol/L	0.1 to 5.5
Insulin duration (duration of insulin action)	Hours	Easy: 4 Advanced: 3 to 8
Dose increments	Units of insulin	0.5 or 1
Maximum insulin dose	Units of insulin	50

Labeling Symbols

	Consult instructions for use or consult electronic instructions for use	UDI	Unique Device Identifier
A	Temperature limit	Ω	Use-by date
***	Manufacturer	REF	Catalog number
C€	CE Mark	₩	Date of Manufacture
EC REP	Authorized Representative in the European Community/ European Union	SN	Serial number
LOT	Batch code		Single sterile barrier system
†	Type BF applied part	Ť	Keep dry
CODE	Sensor code	$(\!(\bullet)\!)\!)$	Non-ionizing radiation
2	Do not re-use	À	Caution
STERILE R	Sterilized using irradiation	<u>@</u>	Humidity limitation
MD	Medical Device		Importer



Distributor





Sterile Barrier. Refer to Instructions for Use if opened or damaged.



Do not use if package is damaged.

For Sterile Barrier: Do not use if the product sterile barrier system or its packaging is compromised.



This product must not be disposed of via municipal waste collection. Separate collection for electrical and electronic equipment waste per Directive 2012/19/EU in the European Union is required. Contact the manufacturer for details.

Electromagnetic Compatibility

- The System needs special precautions regarding EMC and needs to be installed and put into service
 according to the EMC information provided in this manual.
- Portable and mobile RF communications equipment can affect the System.
- Use of accessories, transducers and cables other than those specified or provided by Abbott
 Diabetes Care could result in increased electromagnetic emissions or decreased electromagnetic
 immunity of the System and result in improper operation.
- The System should not be used adjacent to or stacked with other equipment and that if adjacent
 or stacked use is necessary, the System should be observed to verify normal operation in the
 configuration in which it will be used.

Guidance and manufacturer's declaration – electromagnetic emissions

The System is intended for use in the electromagnetic environment specified below. The customer or the user of the System should assure that it is used in such an environment.

Emissions test	Compliance	Electromagnetic environment – guidance		
RF emissions CISPR 11	Group 1	The System uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.		
RF emissions CISPR 11	Class B	The System is suitable for use in all establishments, including		
Harmonic emissions IEC 61000-3-2	Class A	domestic establishments and those directly connected to the public low voltage power supply		
Voltage fluctuations / flicker emissions IEC 61000-3-3	Complies	network that supplies buildings used for domestic purposes.		

Guidance and manufacturer's declaration – electromagnetic immunity

The System is intended for use in the electromagnetic environment specified below. The customer or the user of the System should assure that it is used in such an environment.

IMMUNITY test	IEC 60601 test level	Compliance Level	Electromagnetic environment – guidance
Electrostatic discharge (ESD) IEC 61000-4-2	± 8 kV contact ± 15 kV air	± 8 kV contact ± 15 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %.
Electrical fast transient/burst IEC 61000-4-4	± 2 kV for power supply lines (100kHz frequency) ± 1 kV for signal lines (100kHz frequency)	± 2 kV for power supply lines (100kHz frequency) ± 1 kV for signal lines (100kHz frequency)	Mains power quality should be that of a typical domestic, commercial, or hospital environment.

IMMUNITY test	IEC 60601 test level	Compliance Level	Electromagnetic environment – guidance
Surge IEC 61000-4-5	±1 kV differential mode ±2 kV common mode	±1 kV differential mode ±2 kV common mode	Mains power quality should be that of a typical domestic, commercial, or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	0 % <i>Uτ</i> ; 0.5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0 % <i>Uτ</i> ; 1 cycle and 70 % <i>Uτ</i> ; 25/30 cycles Single phase: at 0° 0 % <i>Uτ</i> ; 250/300 cycle	0 % <i>Ur</i> ; 0.5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0 % <i>Ur</i> ; 1 cycle and 70 % <i>Ur</i> ; 25/30 cycles Single phase: at 0° 0 % <i>Ur</i> ; 250/300 cycle	Mains power quality should be that of a typical domestic, commercial, or hospital environment. If the user of the System requires continued operation during power mains interruptions, it is recommended that the System be powered from an uninterruptible power supply or a battery.

IMMUNITY	IEC 60601	Compliance	Electromagnetic
test	test level	Level	environment – guidance
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30 A/m	30 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical domestic, commercial, or hospital environment.

NOTE U^{τ} is the a.c. mains voltage prior to application of the test level.

IMMUNITY test	IEC 60601 test level	Compliance Level	Electromagnetic environment – guidance
Conducted RF IEC 61000-4-6	6 Vrms 150 kHz to 80 MHz	6 Vrms	Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer
Radiated RF IEC 61000-4-3	10 V/m 80 MHz to 2.7 GHz	10 V/m	than 30 cm (12 inches) to any part of the System, including cables specified by Abbott Diabetes Care. Otherwise, degradation of the performance of the System could result.
Proximity fields from RF wireless communications equipment IEC 61000-4-3	See table on next page	Compliance to the tested levels	

The table below lists the immunity test levels at specific test frequencies for testing the effects of some wireless communications equipment. The frequencies and services listed in the table are representative examples in healthcare and in various locations where the System may be used.

Test frequency (MHz)	Band ^{a)} (MHz)	Service ^{a)}	Modulation b)	Maximum power (W)	Distance (m)	IMMUNITY TEST LEVEL (V/m)				
385	380 – 390	TETRA 400	Pulse modulation ^{b)} 18 Hz	1.8	0.3	27				
450	430 – 470	GMRS 460, FRS 460	FM ^{c)} ± 5 kHz deviation 1 kHz sine	2	0.3	28				
710	704 – 787	LTE Band 13, 17				0.2	0.3	9		
745					217 Hz					
780										
810	800 – 960	10 – 960 GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE Band 5	Pulse	2	0.3	28				
870			TETRA 800, iDEN 820, CDMA 850,	TETRA 800,	TETRA 800,	TETRA 800,	modulation b) 18 Hz			
930	CDMA 8									

Test frequency (MHz)	Band ^{a)} (MHz)	Service ^{a)}	Modulation b)	Maximum power (W)	Distance (m)	IMMUNITY TEST LEVEL (V/m)
1720	1700 – 1990	GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3, 4, 25; UMTS	Pulse modulation ^{b)} 217 Hz	2	0.3	28
1845						
1970						
2450	2400 – 2570	Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7	Pulse modulation ^{b)} 217 Hz	2	0.3	28
5240	5100 – 5800	WLAN 802.11 a/n	Pulse modulation ^{b)} 217 Hz	0.2	0.3	9
5500						
5785						

^{a)} For some services, only the uplink frequencies are included.

b) The carrier shall be modulated using a 50% duty cycle square wave signal.

d As an alternative to FM modulation, 50% pulse modulation at 18 Hz may be used, because while it does not represent actual modulation, it would be worst case.

Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, a should be less than the compliance level in each frequency range.b

Interference may occur in the vicinity of equipment marked with the following symbol: $((\bullet))$



- ^a Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the System is used exceeds the applicable RF compliance level above, the System should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the System.
- ^b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 10 V/m.

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Version 1.1 - 26 February 2007

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