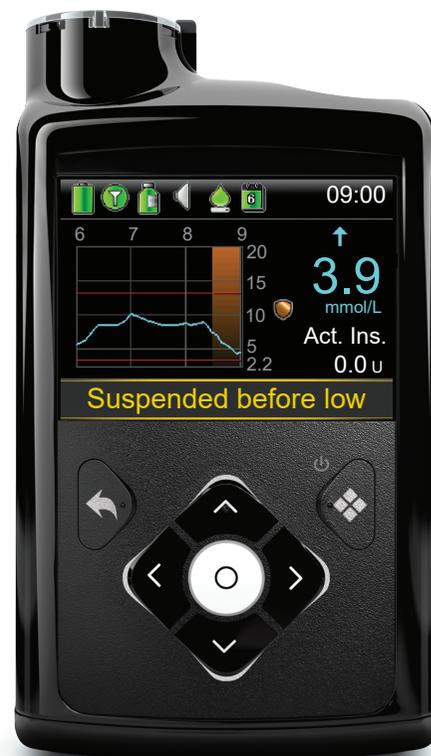


MINIMED™ 740G SYSTEM USER GUIDE



Medtronic



MiniMed™ 740G
SYSTEM USER GUIDE



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■ Before you begin



1



1 Before you begin

This user guide is designed to help you understand the operation of the MiniMed 740G system with smart device connectivity and SmartGuard technology, our latest advancement in diabetes management. Work closely with your healthcare professional when you start insulin pump therapy.

Using this user guide

This user guide contains valuable information about using your new insulin pump. To help you find the information you need, you can use the table of contents at the beginning of the user guide and the index at the end of the user guide. There is also a glossary of terms, which starts on *page 283*.

The following table describes certain terms, conventions, and concepts used in this user guide.

Convention	What it means
Select	To activate a screen item, accept a value, or initiate an action.
Select and hold	To perform an action using your pump screen, press the Select button and hold until the action is complete.
Press	To push and then release a button.
Press and hold	To push and keep pressure on a button.
Bold text	To indicate screen items and buttons. For example, "Select Next to continue."

Convention	What it means
X	To indicate a numeric value or name that appears differently on your pump screen.
Note	 Note: A note provides helpful information.
Caution	 CAUTION: A caution tells you of a potential hazard which, if not avoided, may result in minor or moderate injury or damage to the equipment.
WARNING	 WARNING: A warning tells you of a potential hazard which, if not avoided, could result in death or serious injury. It may also describe potential serious adverse reactions and safety hazards.

The MiniMed 740G System User Guide includes instructions on how to set up devices on the MiniMed 740G insulin pump. For additional instructions not included in the MiniMed 740G System User Guide, refer to the instructions for the device.

Device	For instructions see
Reservoir	Reservoir user guide
Infusion Sets	Infusion set user guide
Transmitter	Guardian Link (3) transmitter user guide
Sensor	Guardian Sensor (3) user guide
Meter	Accu-Chek® Guide Link User's Manual

Acronyms and abbreviations

The following table defines acronyms and abbreviations used in this guide.

Acronyms and abbreviations	Definition
BG	blood glucose
CGM	continuous glucose monitoring
CT scan	computerized tomography scan
DKA	diabetic ketoacidosis
EMC	electromagnetic compatibility
ESD	electrostatic discharge
FCC	Federal Communications Commission
GPS	global positioning system
ISIG	input signals, which are read from the sensor and measured in nanoamperes (nA)
IV	intravenous
MRI	magnetic resonance imaging
NiMH	nickel-metal hydride
RF	radio frequency
SG	sensor glucose
SN	serial number
TDD	total daily dose

Emergency kit

Keep an emergency kit with you at all times to make sure that you always have necessary supplies. Tell a family member, co-worker, or friend where you keep your emergency kit.

It is important that you test your blood glucose (BG) more frequently while you travel. The routine hassle of travel, including stress, changes in time zones, schedules and activity levels, meal times and types of food, can all affect your diabetes control. Be extra attentive to monitoring your BG frequently, and be prepared to respond if needed.

Your emergency kit should include these items:

- Fast-acting glucose tablets

- BG monitoring supplies
- Urine or blood ketone monitoring supplies
- Extra MiniMed infusion set and MiniMed reservoir
- Extra new AA lithium or alkaline batteries, or fully charged NiMH batteries
- Insulin syringe and rapid-acting insulin (with dosage instructions from your healthcare professional)
- Adhesive dressing
- Glucagon emergency kit



WARNING: Do not use the Bolus Wizard feature to calculate a bolus for a period of time after giving a manual injection of insulin by syringe or pen. Manual injections are not accounted for in the active insulin amount. Therefore, the Bolus Wizard feature could prompt you to deliver more insulin than needed. Too much insulin can cause hypoglycemia. Consult with your healthcare professional for how long you need to wait after a manual injection of insulin before you can rely on the active insulin calculation of the Bolus Wizard feature.

For details on pump safety, see *User safety, on page 6*.

User safety

Intended use

MiniMed 740G System

The MiniMed 740G insulin pump is intended for continuous delivery of basal insulin (at user selectable rates) and administration of insulin boluses (in user selectable amounts) for the management of diabetes mellitus in persons of all ages requiring insulin. In addition, the system is indicated for continuous or periodic monitoring of glucose levels in the fluid under the skin, and detecting possible low and high glucose episodes. When using a sensor and transmitter, the pump displays continuous sensor glucose values and stores this data so that it can be analyzed to track patterns and improve diabetes management. This data can be uploaded to a computer for analysis of historical glucose values.

The Guardian Sensor (3) is not intended to be used directly for making therapy adjustments, but rather to provide an indication of when a fingerstick may be required. All therapy adjustments should be based on measurements obtained using a home glucose monitor and not on values provided by the Guardian Sensor (3).

Contraindications

Pump therapy is not recommended for people whose vision or hearing does not allow recognition of pump signals and alarms.

Insulin pump therapy is not recommended for those who are unwilling to perform at least four BG tests per day. As insulin pumps use rapid-acting insulin only, BG testing is required to help identify rapid glycemic deterioration due to insulin infusion occlusion, infusion site problems, insulin stability issues, user error, or a combination of these.

Pump therapy is not recommended for people who are unwilling or unable to maintain contact with their healthcare professional.

Potential risks

Risks related to insulin pump infusion set

General risks related to insulin pump infusion set may include:

- Localized infection
- Skin irritation or redness
- Bruising
- Discomfort or pain
- Bleeding
- Irritation
- Rash
- Occlusions that can interrupt insulin delivery and lead to hyperglycemia or diabetic ketoacidosis

Patients should be instructed to follow the provided user guides for insertions and care of infusion sets. If an infusion site becomes irritated or inflamed, the infusion set should be removed and another placed in a new location.

Risks related to insulin administration and pump use

Due to the use of insulin, there is risk related to the infusion of insulin and the potential interruptions of insulin delivery. These general risks may include:

- Hypoglycemia
- Hyperglycemia
- Diabetic ketoacidosis
- Seizure
- Coma
- Death

Risks related to sensor use

General risks related to sensor use may include:

- Skin irritation or other reactions
- Bruising
- Discomfort
- Redness
- Bleeding
- Pain
- Rash
- Infection
- Raised bump
- Appearance of a small "freckle-like" dot where needle was inserted
- Allergic reaction
- Fainting secondary to anxiety or fear of needle insertion
- Soreness or tenderness
- Swelling at insertion site
- Sensor fracture, breakage or damage
- Minimal blood splatter associated with sensor needle removal
- Residual redness associated with adhesive, tape, or both
- Scarring

Specific risks related to sensor use

Taking medications with paracetamol, including, but not limited to fever reducers or cold medicine, while wearing the sensor may falsely raise your SG readings. The level of inaccuracy depends on the amount of paracetamol active in your body and may be different for each person. Always use BG meter readings to verify your glucose level before making therapy decisions, including when you could have paracetamol active in your body. Always check the label of any medications to confirm whether paracetamol is an active ingredient.

Risks related to meter use

For the most current risks, see the User's Manual that came with your device.

Risks related to serter use

General risks with serter use may include skin infection around the area where the serter is used.

Risks related to the MiniMed 740G insulin pump system

General risks related to the MiniMed 740G insulin pump system may include:

- Hypoglycemia
- Hyperglycemia
- Diabetic ketoacidosis
- Seizure
- Coma
- Death

General warnings

Pump

- Do not use the pump when a flammable anesthetic mixture with air, oxygen, or nitrous oxide is present. These environmental conditions can damage your pump and result in serious injury.
- Do not make treatment decisions, such as determining your insulin dose for meals, using the MiniMed 740G System CGM values, as they are not intended to be used to make such treatment decisions. The MiniMed 740G System

CGM does not replace a BG meter. Always use the values from your BG meter for treatment decisions. BG values may differ from SG values. Using the SG readings for treatment decisions could lead to high or low BG.

- Never rely on the pump beeps or vibrations alone to navigate through the pump screens or menus. Always check your pump screen as you navigate. The pump beeps and vibrations are intended to notify you of a condition that may require attention. Relying on the pump beeps or vibrations alone to navigate can result in incorrect menu selection or settings.
- Do not use your pump if the screen appears broken or unreadable. In some instances, impact to the pump can damage the screen while the buttons continue to function. If the screen is broken or unreadable, do not press any buttons. Remove the pump and begin using your backup insulin plan per the direction of your healthcare professional. If the pump is accidentally programmed while the screen is broken or unreadable, this could result in high or low BG levels. If your screen is damaged, contact your local Medtronic support representative to arrange for shipment of a replacement pump.
- Only use rapid-acting U-100 insulin (Humalog, NovoLog, and NovoRapid) that has been prescribed by your healthcare professional for use with an infusion pump. Do not put any other drugs or medications inside your reservoir for use with this pump. Other drugs or medications are not intended for use with this pump. Use of other drugs or medications can cause serious injury.
- Always make sure the infusion set is disconnected from your body before you rewind your pump or fill the infusion set tubing. Never insert the reservoir into the pump while the tubing is connected to your body. Doing so could result in an accidental infusion of insulin.
- Do not insert the reservoir in the pump if you did not rewind your pump. Doing so could result in an accidental infusion of insulin.
- Do not use the MiniMed 740G insulin pump or additional system devices adjacent to other electrical equipment which may cause interference with the normal system operation. This includes mobile communication devices such as cell phones that are not paired with the MiniMed 740G System, GPS navigation systems, anti-theft systems, and any electrical equipment that has an output transmitter power greater than 1W. For more information about recommended separation distance guidelines between the insulin pump and

common RF emitters, see *Guidance and manufacturer's declaration, on page 269*. The recommended separation distance between the insulin pump and common RF emitters is 30 cm (12 inches). Other electrical equipment that may compromise normal system operation has been contraindicated. For more information, see *Exposure to magnetic fields and radiation, on page 14*.

- Do not unscrew or retighten the tubing connector on the reservoir while the infusion set is connected to your body. Doing so could result in an accidental infusion of insulin.
- Do not use standard Luer sets with the MiniMed 740G insulin pump. Standard Luer sets are not compatible with the pump. The MiniMed reservoirs and the MiniMed infusion sets are specifically designed for use with the MiniMed 740G insulin pump.
- Do not change or modify the MiniMed reservoir or the MiniMed infusion set unless expressly approved by Medtronic Diabetes. Modifying the devices can cause serious injury, interfere with your ability to operate the device, and void your warranty.
- Do not rely on preset pump alarms or reminders alone to prompt you to check your BG. This can cause you to forget to check your BG. Set additional reminders on other devices, such as your cell phone.
- Do not change or modify the internal RF transmitter or antenna unless expressly approved by Medtronic Diabetes. Doing so could interfere with your ability to operate the equipment.
- Do not attempt to use any transmitter other than the Guardian Link (3) transmitter with Bluetooth wireless technology (MMT-7911). "GL3" is marked on the transmitter. Only the "GL3" transmitter can communicate with the MiniMed 740G insulin pump with smart device connectivity.
- If other devices, outside those being used as part of the MiniMed 740G System, employ radio frequencies such as cell phones, cordless phones, walkie-talkies, and wireless networks, they may prevent communication between the transmitter and the insulin pump. This interference does not cause any incorrect data to be sent and does not cause any harm to your devices. Moving away from, or turning off, these other devices may enable communication. If you continue to experience RF interference, contact your local Medtronic support representative.

- Special Precautions regarding Electromagnetic Compatibility (EMC): This body worn device is intended to be operated within a reasonable residential, domestic, public or work environment, where common levels of radiated “E” (V/m) or “H” fields (A/m) exist; such as cellular phones that are not paired with the MiniMed 740G System, Wi-Fi networks, Bluetooth wireless technology, electric can openers, microwave and induction ovens. This device generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the provided instructions, may cause harmful interference to radio communications.
- Portable and mobile RF communications equipment can affect Medical Electrical Equipment as well. If you encounter RF interference from a mobile or stationary RF transmitter, move away from the RF transmitter that is causing the interference.
- This device can generate, use, and radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. If the device does cause interference to radio or television reception, you are encouraged to try to correct the interference by one or more of the following measures:
 - Decrease the distance between the transmitter and the insulin pump to 1.8 meters (6 feet) or less.
 - Decrease the distance between the meter and the insulin pump to 1.8 meters (6 feet) or less.
 - Increase the separation between the transmitter and the device that is receiving/emitting interference.

Reservoir and infusion sets

For the most current warnings, see the user guide that came with your device.

- Only use rapid-acting U-100 insulin (Humalog, NovoLog, and NovoRapid) that has been prescribed by your healthcare professional for use with an infusion pump. Do not put any other drugs or medications inside your reservoir for use with this pump. Other drugs or medications are not intended for use with this pump, and can result in serious injury.

- If insulin, or any liquid, gets inside the tubing connector, it can temporarily block the vents that allow the pump to properly prime the infusion set. This may result in the delivery of too little or too much insulin, which can cause hyperglycemia or hypoglycemia. If this occurs, start over with a new reservoir and infusion set.
- If infusing insulin, and your BG level becomes unexplainably high, or an occlusion alarm occurs, check for clogs and leaks.
- Only use reservoir and infusion sets manufactured or distributed by Medtronic Diabetes. The pump has undergone extensive testing to confirm appropriate operation when used with compatible reservoirs and infusion sets manufactured or distributed by Medtronic Diabetes. We cannot guarantee appropriate operation if the pump is used with reservoirs or infusion sets offered by third parties. We are not responsible for any injury or malfunctioning of the pump that may occur in association with such use.
- Do not use the infusion set for more than three days. Insulin is not labeled for more than three days of use when it is used in an infusion set. If insulin is used in the infusion set for more than three days, it may increase the risk of set occlusions and cause problems with insulin absorption, which may lead to severe hyperglycemia and DKA.

Sensor

For the most current warnings, see the user guide that came with your device.

- Keep the sensor away from children. This product contains small parts and may pose a choking hazard.
- Do not attempt to remove the sensor yourself if you suspect that the sensor is broken. While there is no evidence of a sensor breaking in a patient's body, sensor breakage can result in serious injury. Contact your healthcare professional for assistance in removing the sensor.
- Taking medications with paracetamol while wearing the sensor may falsely raise your SG readings. The level of inaccuracy depends on the amount of paracetamol active in your body and may be different for each person.
- Do not attempt to use the sensor with any transmitter other than the Guardian Link (3) transmitter with Bluetooth wireless technology (MMT-7911). "GL3" is marked on the transmitter. Only the "GL3" transmitter can

communicate with the MiniMed 740G insulin pump with smart device connectivity. The sensor is not interchangeable with transmitters and recorders that are not compatible. If you connect the sensor to a transmitter or recorder that is not approved for use with the sensor, it can cause damage to the components or inaccurate SG values.

Serter

For the most current warnings, see the user guide that came with your device.

- The one-press serter (MMT-7512) does not work the same as other Medtronic insertion devices. Failure to follow directions or using a different serter may result in improper insertion, pain, or injury.

Transmitter

For the most current warnings, see the user guide that came with your device.

Do not allow children to put small parts in their mouth. This product poses a choking hazard for young children.

Meter

For the most current warnings, see the User's Manual that came with your device.

Exposure to magnetic fields and radiation

- Do not expose your pump to MRI equipment, diathermy devices, or other devices that generate strong magnetic fields (for example, x-ray, CT scan, or other types of radiation). The strong magnetic fields can cause the system to malfunction, and result in serious injury. If your pump is exposed to a strong magnetic field, discontinue use and contact your local Medtronic support representative for further assistance.

Magnetic fields, and direct contact with magnets, may affect the accurate functioning of your system, which may lead to health risks such as hypoglycemia or hyperglycemia.

- Always remove your pump, sensor, transmitter, and meter before entering a room that has x-ray, MRI, diathermy, or CT scan equipment. The magnetic fields and radiation in the immediate vicinity of this equipment can make your devices nonfunctional or damage the part of the pump that regulates insulin delivery, possibly resulting in over delivery and severe hypoglycemia.

- Do not expose your pump to a magnet, such as pump cases that have a magnetic clasp. Exposure to a magnet may interfere with the motor inside the pump. Damage to the motor can cause the device to malfunction, and result in serious injury.
- Always carry the Medical emergency card provided with your device when you are traveling. The Medical emergency card provides critical information about airport security systems and pump use on an airplane, which can help you and others. Not following the guidance on the Medical emergency card could result in serious injury.

General precautions

Always check your BG levels at least four times per day. Although the pump has multiple safety alarms, it cannot notify you if the infusion set is leaking, or the insulin has lost its effectiveness. If your BG is out of range, check the pump and the infusion set to ensure that the necessary amount of insulin is being delivered.

Waterproof capabilities

- At the time of manufacture and when the reservoir and tubing are properly inserted, your pump is waterproof. It is protected against the effects of being underwater to a depth of up to 3.6 meters (12 feet) for up to 24 hours.
- If the pump is dropped, hit against a hard object, or otherwise damaged, the waterproof characteristics of the outer casing of the pump may be compromised. If your pump has been dropped or you suspect your pump is damaged, carefully inspect your pump to ensure there are no cracks before exposing your pump to water.
- This waterproof capability rating applies only to your pump.
- If you believe that water has entered your pump or you observe any other possible pump malfunction, check your BG, and treat high BG as necessary, using an alternative source of insulin. Contact your local Medtronic support representative for further assistance. Always contact your healthcare professional if you experience excessively high or low BG levels or if you have any questions about your care.

Electrostatic discharge

- Although the MiniMed 740G insulin pump is designed to be unaffected by typical levels of electrostatic discharge (ESD), very high levels of ESD can result in a reset of the pump's software and a pump error alarm. After clearing the alarm, verify that your pump is set to the correct date and time, and that all other settings are programmed to the desired values. The software reset could erase your previously programmed settings.
- For more information on pump alarms, see *Pump alarms, alerts, and messages, on page 206*. For more information on re-entering your pump settings, see *My pump is asking me to enter my settings, on page 241*. If you are unable to re-enter your pump settings, or otherwise believe there is a problem with your pump, contact your local Medtronic support representative.

Extreme temperatures

Exposure to extreme temperatures can damage your device, which can adversely affect safety and effectiveness of your device. Avoid the following conditions:

- Avoid exposing your pump to temperatures above 40°C (104°F) or below 5°C (41°F). This may damage your device.
- Insulin solutions freeze near 0°C (32°F) and degrade at temperatures higher than 37°C (98.6°F). If you are outside in cold weather, wear your pump close to your body and cover it with warm clothing. If you are in a warm environment, take measures to keep your pump and insulin cool.
- Do not steam, heat, sterilize, or autoclave your pump. Exposure to high temperatures may damage your device.

Lotion, sunscreen, and insect repellent

Some skin care products, such as lotion, sunscreen, and insect repellents, can cause damage to plastics, which is a material used in your pump case. After using such products, be sure to wash your hands prior to handling your pump. If you get any skin care products or insect repellents on your pump, wipe them off as soon as possible with a damp cloth and mild soap. For instructions on cleaning your pump, see *Cleaning your pump, on page 247*.

Infusion sets and sites

Always refer to the infusion set user guide for all precautions, warnings, and instructions relating to the infusion set and your insertion sites. Not referring to the infusion set user guide can result in minor injury or damage to the infusion set.

Sensor

Always refer to the sensor user guide for all precautions, warnings, and instructions relating to the sensor. Not referring to the sensor user guide can result in minor injury or damage to the sensor.

Transmitter

Always refer to the transmitter user guide for all precautions, warnings, and instructions relating to the transmitter. Not referring to the transmitter user guide can result in minor injury or damage to the transmitter.

Meter

Always refer to the Accu-Chek Guide Link User's Manual for all precautions, warnings, and instructions relating to compatible meters. Not referring to the User's Manual can result in minor injury or damage to the meter.

Security precautions

The MiniMed 740G insulin pump system is designed with security features to help keep the system and the data secure. These security features in the insulin pump system are set in the factory and ready to use when the insulin pump is received. For example, when the pump communicates with other devices in the system, such as the BG meter, transmitter, or compatible mobile device, the data that it is sending and receiving is encrypted and protected by cyclic redundancy checks. This helps prevent other people from being able to see system data, or to interfere with insulin pump therapy.

To help keep the system secure, follow these instructions:

- Do not leave the insulin pump or the paired devices unattended.
- Do not share the pump, transmitter, or BG meter serial number.
- Do not connect the pump to any third-party devices not authorized by Medtronic.
- Do not use any software not authorized by Medtronic to control the system.

- Be attentive to pump notifications, alarms, and alerts because they may indicate that someone else is trying to connect to or interfere with the device.
- Disconnect the Blue Adapter from the computer whenever it is not being used.
- Use good cyber security practices; use anti-virus software and keep computer software up to date.
- Refer to the MiniMed Mobile App User Guide for information on how to keep the compatible mobile device safe to use with the Medtronic devices.

The pump only communicates with paired devices. The short time that it takes to pair the pump with other devices is a sensitive time for security. During this time, it is possible for an unintended device to pair with the pump. While Medtronic has designed security features into the system to prevent this, to keep the system safe during pairing always follow these instructions:

- Pair the transmitter, BG meter, or the compatible mobile device with the pump away from other people and devices.
- When the transmitter successfully pairs with the pump, the green LED on the transmitter stops blinking. If the green LED on the transmitter continues to blink for several minutes or more after it is successfully paired, it may have been paired with an unintended device. See *Deleting the transmitter from your pump, on page 187* to delete the transmitter from the pump and then follow the steps to pair it again.
- After pairing the BG meter or the compatible mobile device with the pump, make sure that the BG meter or compatible mobile device indicates that pairing was successful.

Consult a healthcare professional if there are symptoms of severe hypoglycemia or diabetic ketoacidosis, or suspect that the insulin pump settings, or insulin delivery changed unexpectedly.

If there is a concern that someone else is trying to connect to or interfere with the device, stop using it and contact a local Medtronic support representative immediately.

Adverse reactions

Always refer to the sensor user guide for adverse reactions related to the sensor. Not referring to the sensor user guide can result in minor injury or damage to the sensor.

Keeping track of your system information

The serial number (SN) is located on the back of your pump. If you are using the pump clip, you need to remove the pump clip to view the serial number. It also displays in your Pump status screen. For more details on the status screens, see *Status screens, on page 40*. You will need your pump serial number if you call your local Medtronic support representative. For future reference, enter the serial number of your pump and the purchase date in the following table:

Pump serial number and purchase date
Serial Number:
Purchase Date:

Insulin guidelines



WARNING: Never start on insulin until directed by your healthcare professional. Do not use insulin in your pump while you are practicing by either inserting an insulin filled reservoir into your pump, or connecting an insulin filled infusion set to your body. Doing so could result in an infusion of insulin, not prescribed by your healthcare professional, which may result in low or high BG.

The MiniMed 740G insulin pump has been studied with, and is intended for use with, the following rapid-acting U-100 insulins:

- U-100 NovoLog
- U-100 Humalog
- U-100 NovoRapid

The use of any other insulin in the MiniMed 740G insulin pump has not been tested and may not be appropriate for use with this device.



WARNING: Only use rapid-acting U-100 insulin (Humalog, NovoLog, and NovoRapid) in the MiniMed 740G insulin pump. Use of the incorrect insulin, or insulin with a greater or lesser concentration, may result in over delivery or under delivery of insulin. Over delivery or under delivery of insulin may result in high or low BG levels. High BG levels may lead to diabetic ketoacidosis. Low BG levels may lead to coma or death. If you are unsure about whether you can use a specific insulin with this pump, contact your healthcare professional.

Consumables

The pump uses disposable, single-use, MiniMed reservoirs and infusion sets for insulin delivery.



WARNING: Only use reservoir and infusion sets manufactured or distributed by Medtronic Diabetes. The pump has undergone extensive testing to confirm appropriate operation when used with compatible reservoirs and infusion sets manufactured or distributed by Medtronic Diabetes. We cannot guarantee appropriate operation if the pump is used with reservoirs or infusion sets offered by third parties and therefore we are not responsible for any injury or malfunctioning of the pump that may occur in association with such use.

- **Reservoirs**–Use the MiniMed reservoir MMT-332A, 3.0 mL (300-unit) or MMT-326A, 1.8 mL (180-unit) reservoir, depending on your insulin needs.
- **Infusion sets**–Medtronic Diabetes provides a variety of infusion sets to fit your needs. Contact your healthcare professional for help in choosing an infusion set. Change your infusion set every two to three days per your infusion set manufacturer's instructions.

The following table lists the compatible infusion sets. The MMT numbers may change if other compatible infusion sets become available.

Type	MMT number
MiniMed Quick-set infusion set	MMT-386, MMT-387, MMT-394, MMT-396, MMT-397, MMT-398, MMT-399
MiniMed Silhouette infusion set	MMT-368, MMT-377, MMT-378, MMT-381, MMT-382, MMT-383, MMT-384
MiniMed Sure-T infusion set	MMT-862, MMT-864, MMT-866, MMT-874, MMT-876, MMT-884, MMT-886
MiniMed Mio infusion set	MMT-921, MMT-923, MMT-925, MMT-941, MMT-943, MMT-945, MMT-961, MMT-963, MMT-965, MMT-975
MiniMed Mio 30 infusion set	MMT-905, MMT-906
MiniMed Mio Advance infusion set	MMT-211, MMT-212, MMT-213, MMT-231, MMT-232, MMT-233, MMT-242, MMT-243, MMT-244

Additional MiniMed 740G System devices

- **Accu-Chek Guide Link meter**—the MiniMed 740G System is compatible with an Accu-Chek Guide Link meter. The meter pairs with your pump, allowing you to send BG meter readings to your pump. This device may not be available in all countries.
- **Guardian Link (3) transmitter (MMT-7911)**—pairs with your pump for CGM. A device that connects to a glucose sensor. The transmitter collects data measured by the sensor and wirelessly sends this data to monitoring devices.
- **Guardian Sensor (3) (MMT-7020)**—used with your pump for CGM. The sensor is a small part of the CGM system that you insert just below your skin to measure glucose levels in your interstitial fluid. The sensor is a disposable, single-use, device. Only use the Guardian Sensor (3) (MMT-7020) glucose sensor with the transmitter. Do not use any other sensor. Other sensors are not intended for use with the transmitter, and will damage the transmitter and the sensor.

- **MiniMed Mobile app (MMT-6101 for Android or MMT-6102 for iOS)**—can be downloaded onto multiple compatible mobile devices from the app store, but the pump can be paired with only one compatible mobile device at any time. Refer to the app user guide for setup and operation. This product should only be used with supported mobile devices. Refer to your local Medtronic Diabetes website for information about supported devices and operating systems.
- **Blue Adapter**—uploads system data to CareLink software through a USB port on your computer. Refer to the CareLink software user guide for setup and operation of the Blue Adapter.

Accessories

The following accessories may be used with the MiniMed 740G System.

- **Pump clip**—used to wear the pump on your belt. Also, you can use the tip of the pump clip to open the battery compartment on your pump. Refer to your pump clip user guide for instructions on using your pump clip.
- **Activity guard**—used if you are active in sports, or if a child is wearing the pump. Using the activity guard prevents the reservoir from being rotated or removed from the pump.
- **Skins**—personalize the look of the pump as decorative overlays and provide additional protection against surface scratches.

Ordering supplies and accessories

To order supplies or accessories, contact your local Medtronic support representative.

2



First steps



2

First steps

This chapter gives you an overview of your pump so you can become familiar with the buttons and screens. Read this entire chapter to understand the basic features before using your pump to deliver insulin.

Your pump

The following illustration shows the different parts of your pump. The reservoir, with the tubing connector attached, is inserted into the reservoir compartment.



Using the buttons



CAUTION: Do not use sharp objects to press the buttons on your pump. The use of sharp objects can damage your pump.

The following picture shows the buttons and the notification light on your pump. The notification light flashes when your pump has an alarm or alert. The notification light is not visible unless it flashes.



The following table describes how to use the buttons.

To do this:	Follow these steps:
Display the menu.	Press the  button.

To do this:	Follow these steps:
Scroll up or down a menu or list, or increase or decrease the value of a setting.	Press the \wedge or \vee buttons.
Select an item on a screen or menu.	Press the \wedge , \vee , \langle , or \rangle buttons to select the desired item, and then press the \odot button.
Enter a value into a field.	Press the \wedge , \vee , \langle , or \rangle buttons to select the desired field, and then press the \odot button. The field you select flashes. Press the \wedge or \vee buttons to enter the desired value, and then press the \odot button.
Return to the previous screen.	Press the \blacktriangleleft button.
Display the Home screen.	Press and hold the \blacktriangleleft button to return to the Home screen.
Put the pump in sleep mode.	Press and hold the \blacklozenge button for about two seconds.
<div data-bbox="744 870 807 944" data-label="Image"> </div> <p>Note: power reminds you that you can press and hold \blacklozenge to put the pump into sleep mode.</p>	
Wake up the pump.	Press any button.

About batteries

The pump requires one new AA (1.5 V) battery. For best results, use a new AA lithium (FR6) battery. The pump also accepts an AA alkaline (LR6) or a fully charged AA NiMH (HR6) nickel-metal hydride rechargeable battery.



CAUTION: Do not use a carbon zinc battery in your pump. Carbon zinc batteries are not compatible with the pump. Use of carbon zinc batteries can cause the pump to report inaccurate battery levels.

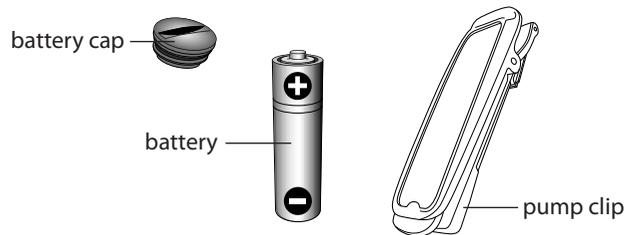
Carbon zinc batteries have a short shelf life, they deteriorate rapidly in cold weather, and oxidation of the zinc wall eventually causes the contents to leak out. They will not perform as well as other battery types to power the pump and may potentially damage your pump.



Note: Do not use cold batteries because the battery life may incorrectly appear as low. Allow cold batteries to reach room temperature before you insert them in your pump.

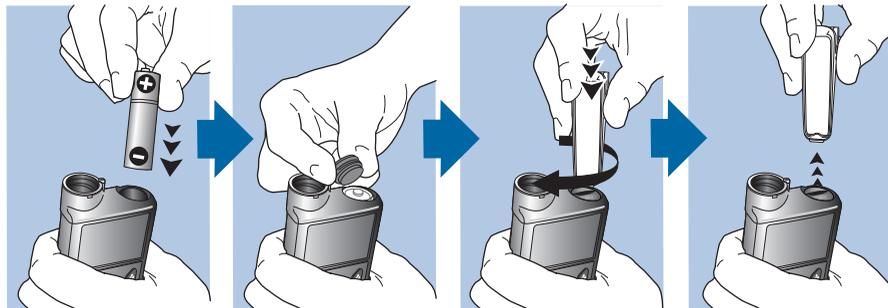
Inserting the battery

Your pump does not ship with the battery cap on. The battery cap is located in the pump box with the accessories.



To insert the battery:

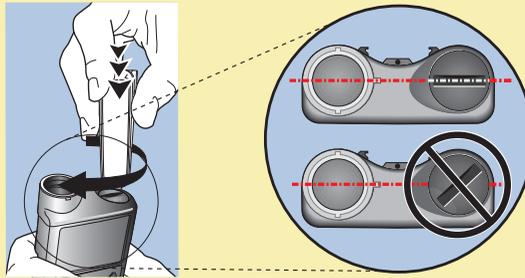
1. Insert the new or fully charged AA battery. Be sure to insert the flat end first.



2. Place the battery cap onto the pump. Use the bottom edge of the pump clip to turn the cap to the right and tighten.



CAUTION: Do not overtighten or undertighten the battery cap. A battery cap that is too tight can cause damage to your pump case. A battery cap that is too loose prevents detection of the new battery. Turn the battery cap clockwise until the slot in the cap is aligned horizontally with the pump case, as shown in the following example.



Note: If this is the first time you have inserted a battery in your pump, the Startup Wizard begins. For more information about the Startup Wizard, see *Entering your startup settings*, on page 31. If this is not the first time you have inserted a battery into your pump, the Home screen appears and the pump resumes your basal insulin delivery.

Removing the battery



CAUTION: Do not remove the battery unless you insert a new battery or store the pump. Your pump cannot deliver insulin while the battery is removed. After you remove an old battery, be sure to replace it with a new battery within 10 minutes to clear the Insert battery alarm and avoid a Power loss alarm. If power loss occurs, you must re-enter your time and date settings.

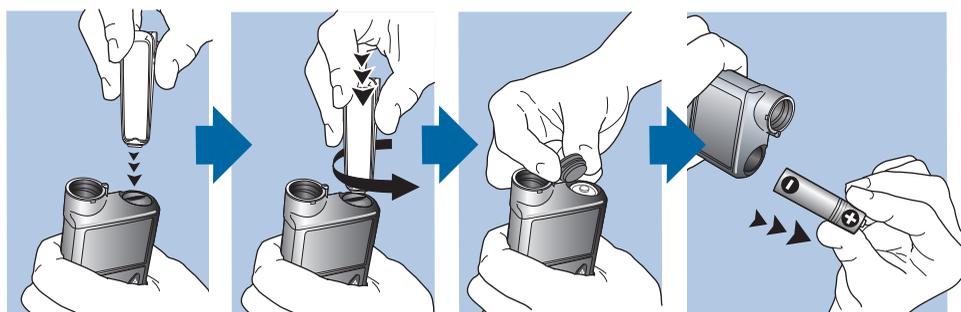
To remove the battery:

1. Before you remove a battery from your pump, clear any active alarms or alerts.
2. Use the pump clip to loosen and remove the battery cap.



Note: Use your pump clip to remove and retighten the battery cap. If the pump clip is unavailable, you may use a coin.

3. Remove the battery.



4. Dispose of old batteries according to local regulations for battery disposal (nonincineration), or contact your healthcare professional for disposal information.
5. After you remove your battery, wait until the Insert Battery screen appears before you insert a new battery.

If you remove the battery to place your pump in storage, see *Storing your pump*, on page 248 for more information.

Getting to know your pump

The following section shows you how to navigate through the screens and menus on your pump. It also helps you learn how to enter information and view the status of your pump.

Entering your startup settings

Your pump has a Startup Wizard that begins when you insert your battery for the first time. You set the language, time format, current time, and the current date in the Startup Wizard.



Note: Use this procedure when you enter your settings for the first time. If this is not the first time you enter your pump settings, and your pump is asking you to re-enter your settings, see *My pump is asking me to enter my settings, on page 241.*

To use the Startup Wizard:

1. The Startup Wizard begins after the Welcome screen appears. When the Select Language screen appears, select your language.



2. When the Select Time Format screen appears, select a **12 Hour** or a **24 Hour** time format.



3. When the Enter Time screen appears, adjust the setting to the current time. If you use a 12-hour clock, be sure to specify AM or PM. Select **Next**.



4. When the Enter Date screen appears, adjust the **Year**, **Month**, and **Day** to the current date. Select **Next**.



5. A "Rewinding" message appears. The piston returns to its start position in the reservoir compartment. This may take several seconds.



6. When rewinding is complete, a message appears to confirm the startup is complete. Select **OK** to go to the Home screen.



To become familiar with the buttons and screens on your pump, see the following sections in this chapter.

Unlocking your pump

Your pump automatically locks when entering sleep mode. When you wake up your pump from sleep mode, you must unlock your pump before navigating to the menu. When you press  or , a screen appears and tells you to unlock your pump. Press the highlighted button to unlock your pump.



The selected screen appears after you press the correct button. If you press an incorrect button, the screen tells you to try again. If you press the  button, the Home screen appears.

After your pump is unlocked, it remains unlocked until you re-enter sleep mode. For information about the different power modes, or to put your pump to sleep, see *Power modes*, on page 43.

Home screen

The Home screen appears by default after you change the battery, when you wake the pump from sleep mode, and when you are not actively using another screen.

To see what your Home screen looks like if you use a sensor, see *Home screen with CGM*, on page 160.



The following items appear on your Home screen:

Item	Description
Status bar	The status bar displays the status icons that show a quick status of your pump system. For more information, see <i>Status bar, on page 35</i> . By selecting the status bar you can access more detailed status screens. For more information, see <i>Status screens, on page 40</i> .
Current time	The current time of day is shown. For details on setting the time, see <i>Time and date, on page 155</i> .
BG meter readings	The pump shows the BG meter readings from your Accu-Chek Guide Link meter or the BG meter readings you have entered manually. The pump only shows BG meter readings taken within the last 12 minutes. You can enter your BG meter reading manually using the Event Markers feature, or when you use the Bolus Wizard feature to deliver a bolus. For details on using the Bolus Wizard feature, see <i>Bolus Wizard feature, on page 73</i> .
Active insulin	The screen shows the amount of bolus insulin the pump estimates is still working to lower your BG levels. For more details on active insulin, see <i>About active insulin, on page 80</i> .
Bolus	Select Bolus to access your bolus delivery options and all of your insulin settings. For details about entering your bolus settings and delivering bolus insulin, see the Bolus chapter on <i>page 67</i> . If you have not set up the Bolus Wizard feature or Preset Bolus feature, you only have access to Manual Bolus from this screen. For details about setting up the Bolus Wizard feature, see <i>Bolus Wizard feature, on page 73</i> . For details about setting up the Preset Bolus feature, see <i>Preset bolus, on page 93</i> .
Basal	Select Basal to access your basal delivery options and all of your insulin settings. For details about entering your basal settings and delivering basal insulin, see the Basal chapter on <i>page 47</i> . To access Preset Temp Basal settings from this screen, you must have set up Preset Temp basal rates. For details about setting up Preset Temp basal rates, see <i>Preset temp basal rates, on page 58</i> .

Status bar

The status bar appears at the top of the Home screen to provide a way for you to quickly check the status of your system. The status bar contains the icons that are described in the following table, along with the current time. For information on viewing detailed status screens, see *Status screens, on page 40*.

Icon	Icon name	What it means
	Battery	<p>The color and fill level of the battery icon indicate the charge level of your pump battery.</p> <p>When a new battery is inserted and your battery is full, the icon is solid green . This indicates that approximately 100% of your battery capacity remains. In most cases, you can expect at least seven days of use remaining.</p> <p>As the battery life is used, the icon changes from solid green in the following order . This indicates that the charge level of your battery is decreasing from 100% to 0%. The yellow icon indicates that the battery needs to be replaced soon. It is recommended that you have a new or fully charged battery available. The remaining charge level of your battery varies based on the battery type and how you use the pump.</p> <p>When your battery is low, the icon has a single red bar . This indicates that under typical use you have up to 10 hours of use remaining.</p> <p>When your battery needs to be replaced immediately, the icon is solid black with a red outline . This indicates that you have less than 30 minutes of use remaining.</p>

Icon	Icon name	What it means
	Connection	The connection icon appears green  when the Sensor feature is on and your transmitter is successfully communicating with your pump. The connection icon appears gray  when the Sensor feature is turned on, but the transmitter is not connected or communication with your pump has been lost. For more information about the Sensor feature, see <i>Understanding CGM</i> , on page 159.

Icon	Icon name	What it means
	Reservoir	<p>The reservoir icon shows the approximate amount of insulin left in your reservoir. The color and the fill level of the icon indicate the status. The reservoir icon is representative of the MiniMed reservoir MMT-332A, 3.0 mL (300-unit). When your reservoir is full, the icon is solid green. As your insulin is used, the icon becomes emptier, and the color of the icon changes as shown in the following example. For more information about your reservoir, see <i>Reservoir and infusion set on Setting up the reservoir and infusion set, on page 101</i>.</p> <ul style="list-style-type: none"> <li data-bbox="738 611 1276 676">  Approximately 85%–100% of the reservoir remains. <li data-bbox="738 704 1263 768">  Approximately 71%–84% of the reservoir remains. <li data-bbox="738 794 1263 859">  Approximately 57%–70% of the reservoir remains. <li data-bbox="738 885 1263 949">  Approximately 43%–56% of the reservoir remains. <div data-bbox="824 975 1345 1295" style="background-color: #e1f5fe; padding: 10px; border: 1px solid #cfe2f3;"> <p> Note: Your reservoir icon only appears full if you use a full 300-unit reservoir. If you use a full 180-unit reservoir, you may see either the yellow reservoir icon  or the green reservoir icon  on your pump Home screen.</p> </div> <ul style="list-style-type: none"> <li data-bbox="738 1337 1263 1402">  Approximately 29%–42% of the reservoir remains. <li data-bbox="738 1428 1263 1493">  Approximately 15%–28% of the reservoir remains. <li data-bbox="738 1519 1346 1583">  Approximately 1%–14% of the reservoir remains. <li data-bbox="738 1609 1310 1650">  The reservoir remaining amount is unknown.

Icon	Icon name	What it means
	Audio	The audio mode you are using: vibrate only  , audio only  , or vibrate and audio  .

Icon	Icon name	What it means
	Calibration	<p>The calibration icon indicates the approximate time left until your next sensor calibration is due. The calibration icon appears only when the Sensor feature is turned on. The color and the fill level of the icon indicate the status of calibration. When your sensor is fully calibrated, the icon is solid green. As the time for your next sensor calibration approaches, the icon becomes emptier, and the color of the icon changes as shown in the following example. For more information about calibrating your sensor, see <i>Calibrating your sensor</i>, on page 188.</p> <ul style="list-style-type: none"> <li data-bbox="738 652 1303 717">•  Time to your next sensor calibration is more than 10 hours. <li data-bbox="738 741 1323 805">•  Time to your next sensor calibration is 8 to 10 hours. <li data-bbox="738 829 1310 894">•  Time to your next sensor calibration is 6 to 8 hours. <li data-bbox="738 918 1310 983">•  Time to your next sensor calibration is 4 to 6 hours. <li data-bbox="738 1007 1310 1071">•  Time to your next sensor calibration is 2 to 4 hours. <li data-bbox="738 1095 1342 1160">•  Time to your next sensor calibration is less than 2 hours. <li data-bbox="738 1184 1193 1249">•  Sensor calibration is required now. <li data-bbox="738 1273 1287 1382">•  Time to your next sensor calibration is unavailable. This occurs when the sensor is calibrating. <li data-bbox="738 1406 1307 1511">•  Sensor calibration has not completed. This occurs when a new sensor is connected and also after a Calibration not accepted alert.

Icon	Icon name	What it means
	Sensor life	The number in the center of the sensor life icon indicates the number of days that remain until the sensor expires. The icon appears only when the Sensor feature is turned on. The color and the fill level of the icon indicate the status of sensor life. When you insert a new sensor, the icon is solid green. As your sensor life is used, the icon becomes emptier. The icon turns yellow when less than 24 hours remain in the life of your sensor. It turns red when less than 12 hours remain in the life of your sensor.
		 <p>If the number of days that remain until the sensor expires is unavailable, the sensor life icon appears with a question mark .</p>
	Block Mode	The Block Mode icon indicates that the pump is in Block Mode, and that certain functions are restricted. Caregivers, such as parents of a young child, can use Block Mode to restrict access to critical pump settings. For more information about Block Mode, see <i>Block Mode</i> , on page 146.
	Temporary network connection	The temporary network connection icon replaces the connection icon while you are temporarily connected to a remote upload device.

Status screens

The Status screens provide more information about your pump, any notifications you have received, your current settings, and optional sensor. The Status screens are described in the following table:

Status screen	Displays this information
Notifications	A list of alarms, alerts, and reminders that have occurred over the past 24 hours. You can display further details about a particular alarm, alert, or reminder by selecting it from the list. For more information on alarms and alerts, see the <i>Alarms, alerts, and messages</i> chapter.
Quick Status	A summary of status information, including your last bolus, last BG meter reading, current basal rate, reservoir level, and pump battery charge level. If you are using a sensor, this screen also displays the time that your next calibration is due and the status of the SmartGuard features.
Pump	The pump screen provides a detailed view of your pump status, including whether your pump is in a specific mode, the reservoir status, battery status, pump serial number, pump name, model number, and other details about your pump.
Sensor	The Sensor screen is available only if your sensor feature is turned on. The Sensor screen indicates if any alert silence options are turned on. It also shows the status of your calibrations, your sensor life, ISIG, transmitter battery, serial number and version number of your transmitter, and the status of the SmartGuard features.
Settings Review	The Settings Review screen provides a list of all your pump settings. The settings are organized by where they appear in the menu for your pump. For example, your bolus settings appear under the Insulin Settings section, and your brightness level setting appears under the Utilities section.

Viewing the Status screens

1. On the Home screen, select the status bar that appears at the top of the screen.



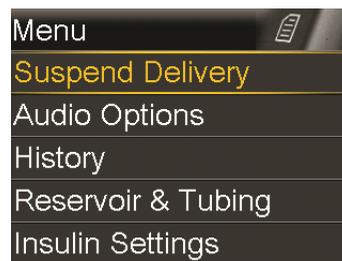
The Status screen appears.



2. Press \wedge or \vee to move up or down the screen. Select the status screen that you want to view. Refer to the table at the beginning of this section for a description of the different status screens.

Using the menu

The menu is where you access the various features and functions of your system. To display the Menu, press \blacklozenge from the Home screen.



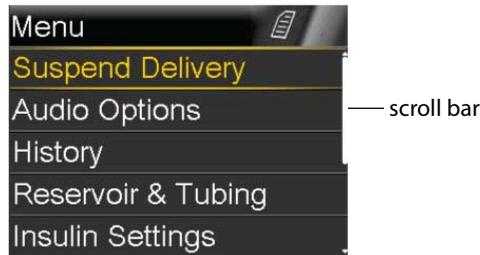
The following options are available from the menu:

Select this	To do this
Suspend Delivery	Stop your current basal and bolus insulin delivery.
Audio Options	Set your audio, vibrate, and volume options for the notifications you receive.
History	Access the Summary, Daily History, and Alarm History screens. If you are using a sensor, you can access the SG Review and ISIG History screens.
Reservoir & Tubing	Start the process of changing your reservoir and infusion set.
Insulin Settings	Set up and manage your insulin delivery options, including your Basal and Bolus settings.

Select this	To do this
Sensor Settings	Set up your optional continuous glucose monitoring device settings.
Event Markers	Save information about events, such as exercise, blood glucose readings, carbs you eat, or injections you take. If you are using a sensor, the blood glucose readings may be used for calibration.
Reminders	Set up reminders to help monitor your system and to help you manage your diabetes. You can also create reminders for personal events.
Utilities	Set up and manage the features and functions of your system.

Scroll bar

The scroll bar is located on the right side of the screen, as shown in the following example. It appears only when there is more information available to view on the screen. Press ^ or v to move up or down the screen.



Power modes

Your pump is designed to conserve battery power when you are not actively using the pump screens.

In this mode	Your pump behaves like this
Awake	<p>Your pump screen is on. Unless you are actively using another screen, your Home screen appears.</p> <p>To wake up your pump from being in power save or sleep mode, press any button. If your pump has been in sleep mode, the pump is locked. To unlock your pump, see <i>Unlocking your pump, on page 33</i>.</p>

In this mode Your pump behaves like this

Power save Your pump is fully functional, but the screen goes dark to save power. You can set how long it takes for your screen to enter power save mode with the Backlight setting. For more information, see *Display Options*, on page 147. If any button is pressed while the pump is in power save mode, the pump returns to the screen that was last displayed.

Sleep Your pump automatically enters sleep mode when you have not pressed any buttons for about two minutes after your screen goes dark (power save mode). Your pump is still fully functional. When you press  or , a screen appears and tells you to unlock your pump. Press the highlighted button to unlock your pump. For details, see *Unlocking your pump*, on page 33.

To put your pump into sleep mode, press and hold the  button for about two seconds.

If you remove your pump

You may have an occasion when you need or want to remove your pump. If you have to remove and store your pump, it is recommended that you do the following:

- Write down a record of your current basal rates and use the Save Settings feature. See *Saving your settings*, on page 149 for more information.
- Remove the battery. See *Storing your pump*, on page 248 for more information.

Remember, your body still needs insulin while your pump is removed.

Consult your healthcare professional to determine an alternate method of receiving insulin. Disconnecting from your pump for less than one hour may not require an insulin adjustment. If you remove your pump for more than one hour, you should take your insulin another way, as prescribed by your healthcare professional.

3



Basal



Basal

Basal insulin is the "background" insulin that you need throughout the day and night to maintain your target BG values when you are not eating. Your basal insulin accounts for approximately one half of your daily insulin requirements. Your pump mimics a pancreas by delivering insulin continuously over 24 hours.

Your basal insulin is delivered according to a basal pattern. Basal patterns and other basal settings are described in the following sections.

Basal rate

Your basal rate is the specific amount of basal insulin that your pump continuously delivers each hour. While some people use one basal rate all day, others require different rates at different times of the day.

Your basal rates are set in one or more basal patterns. Each basal pattern covers 24 hours. For specific information about basal patterns, see *Basal patterns*, on page 50.

Basal insulin settings

Your basal insulin delivery settings are described in the following table.

Setting	Description	Purpose
Basal Pattern	A basal pattern is a set of one or more basal rates that cover a 24-hour period.	A basal pattern lets you vary your basal rate according to your needs. You can set up to eight basal patterns. To set up basal patterns, see <i>Adding a new basal pattern, on page 51</i> . To start a basal pattern, see <i>Changing from one basal pattern to another, on page 54</i> .
Temp Basal	A temp basal rate is a basal rate that you use in place of your scheduled basal rate for short-term situations.	A temp basal rate lets you temporarily change your current basal rate for a duration of time that you specify. To start a temp basal rate, see <i>Starting a temp basal rate, on page 57</i> .
Preset Temp	A preset temp is a temporary basal rate that you can define ahead of time.	A preset temp lets you set and save temporary basal rates for known short-term situations, such as when you are sick or have times of increased or decreased activity. To set up a preset temp basal rate, see <i>Preset temp basal rates, on page 58</i> . To start a preset temp basal rate, see <i>Starting a preset temp basal rate, on page 60</i> .
Max Basal	The max basal rate is the maximum amount of basal insulin that your pump can deliver per hour.	The max basal rate is a safety feature that limits the total amount of basal insulin your pump can deliver per hour. To set your Max Basal rate, see <i>Max Basal rate, on page 49</i> .

Max Basal rate

Max Basal rate limits the amount of basal insulin that can be delivered per hour based on the maximum rate you set. You are unable to set any basal rates, temp basal rates, or preset temp basal rates that exceed the max basal rate amount. You can set your max basal rate from 0 to 35 units per hour. Set your max basal rate as prescribed by your healthcare professional.



Note: If you set your max basal rate after you have set up your basal patterns or preset temp basal rates, you cannot set your max basal rate lower than any of your existing basal rates. You cannot access this feature during a normal bolus delivery.

To set your Max Basal rate:

1. Press  and go to the Max Basal/Bolus screen.

Menu > Insulin Settings > Max Basal/Bolus

2. Select **Max Basal** to set the maximum number of basal insulin units that can be delivered each hour.

Because the max basal rate setting determines your basal insulin limits, a Max Basal alert appears any time you enter the screen to change the value.

3. Select **Continue**.
4. In the Max Basal Rate screen, select **Max Basal** to set the maximum units per hour.
5. Select **Save**.

Example 1: Max basal rate

Helen has a very low insulin requirement. Her highest basal rate is only 0.400 units per hour. As a safety measure, Helen's healthcare professional set her pump with a max basal rate of 1.00 units per hour.

Example 2: Max basal rate

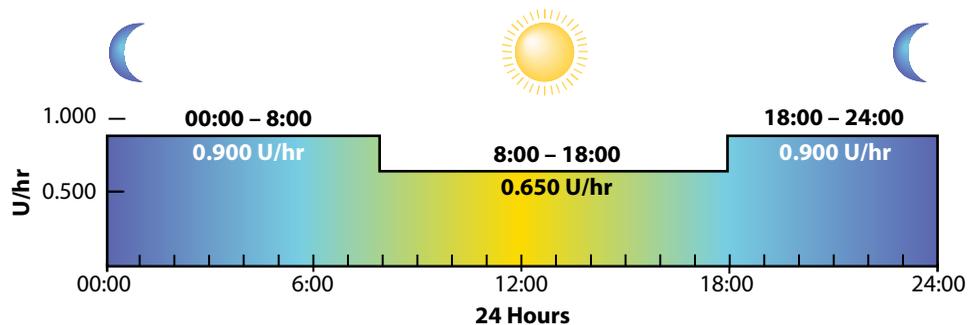
Rusty needs large amounts of insulin to control his BG levels. His new pump was delivered from the factory with a max basal rate of 2.00 units per hour, but he needs 2.80 units per hour in the early morning. Rusty plans to consult his healthcare professional about increasing his max basal rate to 3.00 units per hour to accommodate his needs.

Basal patterns

Your basal pattern determines the amount of basal insulin you receive throughout the day and night. Because your basal insulin needs can vary, you can set up to eight basal patterns. For example, you might use one basal pattern during the week and a different basal pattern during the weekend.

A basal pattern is made up of one to 48 basal rates that you set up to cover a full 24-hour period. If you only need one basal rate throughout the day, you set only one rate for the 24-hour period. If you need the basal rates to change during the day or night to better match your insulin needs, you can set more than one rate, each with a separate start and end time.

The following example represents one basal pattern with three basal rates set for three different time periods.



Your healthcare professional will determine what rates are right for you.



Note: If you have already set up basal patterns and want to switch from using one basal pattern to another, see *Changing from one basal pattern to another*, on page 54.

Adding a new basal pattern

This procedure shows you how to add a new basal pattern.

To add a new basal pattern:

1. Press  and go to the Basal Pattern Setup screen.

Menu > Insulin Settings > Basal Pattern Setup

The Basal Pattern Setup screen appears. Your active basal pattern appears with a check mark and the 24-hour delivery amount, as shown in the following example.



2. If this is your first time setting up a basal pattern, the unit amount is 0.0. Select **Basal 1** and go to step 5.

If this is not your first time setting up a basal pattern, go to step 3 to add a new pattern.

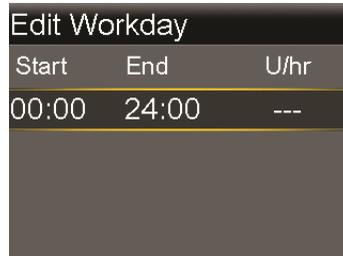
3. To add a new basal pattern, select **Add New**.

The Select Name screen appears.



Note: The Workday, Day Off, and Sick Day patterns are available so that you can match a basal pattern name to your insulin needs on those particular days.

4. Select a basal pattern. An edit screen appears for the pattern you selected. The following example shows the Edit Workday screen.



Edit Workday		
Start	End	U/hr
00:00	24:00	---

5. To create one continuous 24-hour basal rate for your basal pattern, continue with this step. To create more than one basal rate for your new basal pattern, go to step 6.
 - a. Leave End time at 24:00 to set a 24-hour rate. The Start time of the first time segment is always 00:00.
 - b. Set your rate in units per hour.



Edit Workday		
Start	End	U/hr
00:00	24:00	0.025

Done

- c. Go to Step 7.
6. To create more than one basal rate for your new basal pattern, enter one basal rate at a time, as described in the following steps:
 - a. Set the End time and the Rate for your first basal rate. You set your rates in 30-minute increments.

If you set the End time to anything other than 24:00, a second basal rate setting appears.

Edit Workday		
Start	End	U/hr
00:00	07:30	0.075
07:30	18:00	---

The Start time for the next rate is always the same as the End time of the previous rate.



Note: If you need to make a change, press \wedge to scroll up to the rate and adjust the End time or Rate values.

Press \wedge or \vee when a field is selected to adjust the value of that field. When there is no field selected, press \wedge or \vee to scroll up or down the list of basal rates.

- b. Continue to set rates for different time periods as needed. The End time for your last rate must be 24:00, as shown in the example that follows.

Edit Workday		
Start	End	U/hr
00:00	07:30	0.075
07:30	18:00	0.025
18:00	24:00	0.050

7. Select **Done**. The Done option appears only when the last End time in your basal pattern is set to 24:00.

A screen appears that lets you review your basal pattern. If you need to make any changes, press \leftarrow to return to the previous screen.



Note: If you do not select **Done** and press \leftarrow to return to the previous screen, your changes are not saved or implemented.

8. Select **Save**.

To activate your basal pattern, see *Changing from one basal pattern to another*, on page 54.

Editing, copying, or deleting a basal pattern

To edit, copy, or delete a basal pattern:

1. Press  and go to the Basal Pattern Setup screen.
Menu > Insulin Settings > Basal Pattern Setup
The Basal Pattern Setup screen shows all of your existing basal patterns.
2. Select the desired basal pattern.
3. Select **Options**.
4. Do any of the following:
 - Select **Edit** to adjust the End time or rate values for one or more of the basal rates in this basal pattern.
 - Select **Copy** to copy the basal rate information from the selected basal pattern to a new basal pattern. When the Select Name screen appears, you can select any available name from the list. Use the Edit option to adjust the new basal pattern as desired.
 - Select **Delete** to delete the selected basal pattern. You cannot delete the active basal pattern.

Changing from one basal pattern to another

When you change to a new basal pattern, your pump delivers your basal insulin according to the basal pattern you selected.

To change to a different basal pattern:

1. From the Home screen, select **Basal** and go to the Basal Patterns screen.
Home screen > Basal > Basal Patterns
The Basal Patterns screen shows the basal patterns you have set up. The active basal pattern is indicated with a check mark.
2. Select the desired basal pattern.
The Basal screen shows the details for the selected basal pattern.
3. Select **Begin**.

Example 1: Basal patterns

Ken has had his insulin pump for about a month. He tests his BG four to six times a day and records his results in his logbook. He is happy with his glucose control during the week but on the weekends, he noticed that he has to eat more food to prevent his BG from running too low.

Ken has realized that during the week while he is at work, he is very inactive and sits at a desk most of the time. On the weekends, though, he is busy with yard work, running errands, and playing with his kids. Ken plans to speak with his healthcare professional to see if he should add a different Basal Pattern to lower his basal settings to receive less insulin during active times, such as his weekends.

He can use the Basal Patterns feature to support his weekend change in activity. During the week, he can set his pump to deliver his Basal 1 pattern, and on Saturday morning, he can switch over to his Weekend pattern, which he can set with lower basal rates for the weekend. On Monday morning, he can return his pump to the Basal 1 pattern for his weekday insulin needs.

Example 2: Basal patterns

Cynthia has had diabetes for about 12 years and has been on her pump for several weeks. Every Monday, Wednesday, and Friday, Cynthia goes on a three kilometer walk in the morning. To prevent hypoglycemia on these days, she uses a different basal pattern. For those days, she simply switches over to Basal 2, which she has programmed with a lower set of basal rates. Before she learned to use the patterns feature, she would have to eat more food throughout the day to keep her BG at a safe level. Cynthia has also noticed that a few days prior to menstruation, her BG levels seem to rise, requiring more insulin. She has programmed a Basal 3 pattern on her pump with higher basal rates for this time.

Temp basal rates

The Temp Basal feature and Preset Temp feature allow you to set temporary basal rates to manage BG levels during short-term activities or conditions that require a basal rate different than your current one, such as an illness or a change in physical activity. You can make an immediate change to your basal insulin to a value up to your max basal rate. The period of time of your temporary basal rate can range from 30 minutes to 24 hours.

About temp basal rates

A temp basal rate temporarily overrides all other basal programming. Your programmed basal pattern resumes after the temp basal rate delivery is completed or canceled.

The Temp Basal feature lets you set and start a temporary basal rate immediately. The Preset Temp feature lets you set up a temp basal rate ahead of time for known situations. You define temp basal rates and preset temp basal rates using either a percentage of your current basal pattern, or by setting a specific rate, as described in the following table.

This temp basal type:	Works like this:
Percent	<p>Percent delivers a percentage of the basal rates programmed in your active basal pattern for the duration of the temp basal rate. The temp basal amount is rounded down to the next 0.025 units if your basal rate is set at less than 1 unit per hour, or to the next 0.05 units if your basal rate is set at more than 1 unit per hour.</p> <p>Temp basal rates can be set to deliver from 0% to 200%, twice the amount, of your scheduled basal rate. The percent amount you can use is based on the largest basal rate scheduled during the temp basal duration and is limited by your max basal rate.</p>
Rate	<p>Rate delivers a fixed basal insulin rate in units per hour for the duration of your temporary basal. The amount you can set is limited by your max basal rate.</p>

To use the Temp Basal feature, see *Starting a temp basal rate*, on page 57. To use the Preset Temp Basal feature, see *Preset temp basal rates*, on page 58.

Example 1: Temp basal rates

Jessica enjoys her exercise classes, but finds that her glucose levels drop after she attends them. Jessica works with her healthcare professional to learn how to use the Temp Basal feature so that she receives a reduced percentage of her usual basal insulin while she exercises.

Starting a temp basal rate

When you start a temp basal rate, your basal insulin delivery changes to the temporary basal rate for the duration you set. When the duration is complete, your basal insulin delivery automatically returns to the active basal pattern.

To start a temp basal rate:

1. From the Home screen, select **Basal** and go to the Temp Basal screen.

Home screen > Basal > Temp Basal

2. Set the **Duration**. The duration can be set in 15-minute increments from 30 minutes to 24 hours.



3. Select **Next**.
4. Select **Type** to select Percent or Rate.



5. Depending on the Type you selected, do one of the following:
 - Enter a percentage:



- Enter a basal rate. You cannot exceed your max basal rate.



6. If desired, select **Review** to review your temp basal setting.
7. Select **Begin** to start the temp basal rate.

Your temp basal rate continues for the duration you set. The Home screen shows **Basal (T)** during your temp basal delivery. Your scheduled basal rate automatically starts again when your temp basal rate finishes.



Note: If you need to cancel your temp basal rate, select **Basal (T)** from the Home screen, then select **Cancel Temp Basal**.

Preset temp basal rates

The Preset Temp feature lets you set up basal rates for recurring short-term situations where you need to temporarily change your basal rate.

There are four names you can use to match your preset temp basal rate to a situation: High Activity, Moderate Activity, Low Activity, and Sick. There are also four additional preset temp rates available to use for other circumstances (Temp 1 through Temp 4).

Setting up and managing preset temp basal rates

This section describes how to set up, edit, rename, or delete a preset temp basal rate. For information on how to start using a preset temp basal rate, see *Starting a preset temp basal rate*, on page 60.

To set up a preset temp basal rate:

1. Press  and go to the Preset Temp Setup screen.
Menu > Insulin Settings > Preset Temp Setup
2. Select **Add New**.
3. Select a name for the preset temp basal rate. For example, Temp 1, High Activity, Moderate Activity, Low Activity, or Sick.
4. Select **Type** to select Percent or Rate.
5. If you use Percent, enter a percentage. If you use Rate, enter the rate in units per hour. You cannot exceed your max basal rate.
6. Set the **Duration** for the preset temp basal rate to be active. The duration can be set in 15-minute increments from 30 minutes to 24 hours.
7. Select **Save**.

To edit, rename, or delete a preset temp basal rate:

1. Press  and go to the Preset Temp Setup screen.

Menu > Insulin Settings > Preset Temp Setup

The Preset Temp Setup screen appears. This screen shows the settings for any existing preset temp.

2. Select the desired preset temp basal rate.



Note: You cannot select a preset temp basal rate that is currently in use.

3. The next screen displays the temp basal info. Do any of the following:
 - Select **Edit** to adjust the Type (Percent or Rate), the Percentage or Rate amount, and the Duration for the preset temp basal rate.

- Select **Rename** to assign a different name to the preset temp basal rate. When the Select Name screen appears, select any available name from the list.
- Select **Delete** to delete the preset temp basal rate.

Starting a preset temp basal rate

You must set up preset temp basal rates before you can use the Preset Temp feature. For more information, see *Preset temp basal rates, on page 58*.

To start a preset temp basal rate:

1. From the Home screen, select **Basal** and go to the Preset Temp screen. The Preset Temp feature only appears if you have set up preset temp basal rates.

Home screen > Basal > Preset Temp

The Preset Temp screen shows the preset temp basal rates you have set up, along with their percentage or rate amounts.

Preset Temp	09:00
Current rate:	0.025 U/hr
Temp 1	0.100 U/hr
High Activity	25 %
Moderate...	50 %



Note: Depending on your active basal pattern, it is possible for a percentage preset temp basal rate to exceed your max basal limit. You cannot use a preset temp basal rate that exceeds your max basal limit. These rates appear grayed out in the list.

2. Select the preset temp basal rate you want to start.

3. Select **Begin**.

Temp 1	09:00	
0.100 U/hr for 0:30 hr		
Start	End	Temp (U/hr)
09:00	09:30	0.100
Begin		

Your preset temp basal rate continues for the duration you set. The Basal option on the Home screen appears as Basal (T) during your preset temp basal delivery. Your scheduled basal rate automatically starts again when your preset temp basal rate finishes.

Canceling a temp basal or preset temp basal rate

You can cancel a temp basal or preset temp basal rate at any time. When you do so, your scheduled basal pattern automatically starts again.

To cancel a temp basal rate:

1. From the Home screen, select **Basal (T)** and go to the Basal screen.

Home screen > Basal (T)

The Temp Basal screen shows the name (Preset Temp only), current basal rate, the set duration, and the remaining time.

2. Select **Cancel Temp Basal**.

Viewing your basal information

The following table describes how you can view your basal rates and patterns.

To do this:

View your current basal rate

Do this:

From the Home screen, select **Basal** to go to the Basal screen:

Home screen > Basal

The active basal pattern and current basal rate appear at the top of the Basal screen.



You can also view your current basal rate by selecting the status bar at the top of the Home screen, and then selecting **Quick Status**.

View your basal patterns

From the Home screen, select **Basal** and go to the Basal Patterns screen:

Home screen > Basal > Basal Patterns

The Basal Patterns screen shows the basal patterns you have set up, and the 24-hour insulin total for each basal pattern. A check mark appears next to the active basal pattern.



To see the individual basal rates, select the desired basal pattern.

Stopping and resuming your insulin delivery

Use Suspend Delivery if you need to stop all active basal and bolus insulin deliveries. While your insulin delivery is suspended, your pump beeps, vibrates, or both depending on your audio settings. This reminder occurs every 15 minutes to remind you that insulin is not being delivered.



Note: The first reminder occurs 15 minutes after your pump display times out. If you press a button and wake up your pump, the reminder does not occur until 15 minutes after your pump display times out again. To adjust your timeout setting, see *Display Options, on page 147*.

To continue your basal insulin delivery, use the Resume feature. Your pump starts your programmed basal pattern but does not start any previously programmed bolus deliveries.



Note: If you want to stop a bolus delivery only, without stopping your basal insulin delivery, see *Stopping a bolus delivery, on page 96*.



WARNING: Always check the pump Daily History after you resume insulin delivery to determine the amount that was delivered. If needed, program a new bolus or fill the cannula. A bolus delivery or fill cannula that was suspended does not restart when you resume. Failure to resume insulin delivery can result in hyperglycemia and ketoacidosis.



WARNING: Do not rely solely on the audio or vibration notifications when using the Audio or Vibrate options. These notifications may not occur as expected if the speaker or vibrator in your pump malfunctions. A missed notification could result in the delivery of too much or too little insulin. This is most common when using the Easy Bolus feature, or when your pump is in Manual Suspend. Contact your local Medtronic support representative with any concerns.

To suspend all insulin delivery:

1. Press  and go to the Suspend Delivery screen.

Menu > Suspend Delivery

A confirmation message appears.

2. Select **Yes** to suspend your pump and stop all insulin delivery.

The Home screen indicates that your insulin delivery is suspended. Your pump functions are limited until you resume your basal insulin delivery.

To resume basal insulin delivery:

1. While insulin delivery is suspended, go to the Home screen.

2. Select **Resume**.

A confirmation message appears.

3. To resume your basal insulin delivery, select **Yes**. If a temp basal rate was active when you suspended your pump, it resumes if the time is still within the duration that you set.



Note: If you still need a bolus delivery that was in progress before you suspended your insulin delivery, check the Daily History screen for the actual bolus units delivered and the intended bolus amount. Then you can set up a new bolus amount as needed. See *Daily History*, on page 129 for details about using the Daily History screen.

4



Bolus



Bolus

A bolus is the amount of insulin taken to cover an expected rise in BG, typically when you eat a meal or snack. You can also use a bolus to correct a high BG reading.

About bolus deliveries

There are different types of bolus deliveries you can use, depending on your insulin needs at the time. There are also different ways you can deliver a bolus. Discuss these options with your healthcare professional to determine what is best for you.

Bolus types

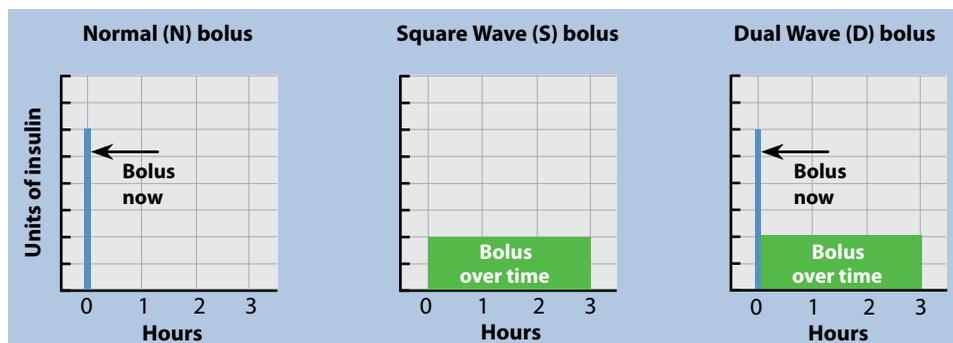
The following table provides general information about the available bolus types.

Bolus type	Description	Purpose
Normal	Normal bolus provides a single immediate dose of insulin.	This is the typical bolus type you use to cover your food intake or to correct a high BG meter reading. For details about using the Normal bolus feature, see <i>Normal bolus, on page 82</i> .

Bolus type	Description	Purpose
Square Wave bolus	Square Wave bolus delivers a single bolus evenly over an extended period of time from 30 minutes up to 8 hours.	<p>You might use a Square Wave bolus for the following reasons:</p> <ul style="list-style-type: none"> • You have delayed food digestion due to gastroparesis or meals high in fat. • When you snack over an extended period of time. • A Normal bolus drops your BG too rapidly. <p>For details about using the Square Wave bolus feature, see <i>Square Wave bolus</i>, on page 85.</p>
Dual Wave bolus	Dual Wave bolus delivers a combination of an immediate Normal bolus followed by a Square Wave bolus.	<p>You might use a Dual Wave bolus for the following reasons:</p> <ul style="list-style-type: none"> • When you eat meals that are both high in carbs and fat which may delay digestion. • When your meal bolus is combined with a correction bolus for an elevated BG. <p>For details about using a Dual Wave bolus, see <i>Dual Wave bolus</i>, on page 87.</p>

Bolus type example

The following example shows how the different bolus types work.



Bolus delivery options

The following table describes the different ways you can deliver a bolus.

Delivery method	Bolus types	How it works
Bolus Wizard feature	Normal bolus, Square Wave bolus, Dual Wave bolus	<p>You enter your BG meter reading or the carbs you plan to eat, or both. Then the Bolus Wizard feature calculates an estimated bolus amount based on your individual settings.</p> <p>For details about using the Bolus Wizard feature, see <i>Bolus Wizard feature, on page 73</i>.</p> <p>Refer to the corresponding section to deliver one of the following bolus types:</p> <ul style="list-style-type: none">• Normal bolus using the Bolus Wizard feature, see <i>Delivering a Normal bolus with the Bolus Wizard feature, on page 82</i>.• Square Wave bolus using the Bolus Wizard feature, see <i>Delivering a Square Wave bolus with the Bolus Wizard feature, on page 86</i>.• Dual Wave bolus using the Bolus Wizard feature, see <i>Delivering a Dual Wave bolus with the Bolus Wizard feature, on page 88</i>.

Delivery method	Bolus types	How it works
Manual	Normal bolus, Square Wave bolus, Dual Wave bolus	<p>You do your own calculation and manually enter your bolus amount.</p> <p>Refer to the corresponding section to deliver one of the following bolus types:</p> <ul style="list-style-type: none"> • Normal bolus, see <i>Delivering a Normal bolus using Manual Bolus, on page 84</i> • Square Wave bolus, see <i>Delivering a Square Wave bolus using Manual Bolus, on page 87</i> • Dual Wave bolus, see <i>Delivering a Dual Wave Bolus using Manual Bolus, on page 90</i>
Preset Bolus	Normal bolus, Square Wave bolus, Dual Wave bolus	<p>You select from specific bolus settings that you define ahead of time for recurring situations.</p> <p>For details about using the Preset Bolus feature, see <i>Preset bolus, on page 93</i>.</p>
Easy Bolus feature	Normal bolus	<p>After the Easy Bolus feature is set up, you can deliver a Normal bolus by using the \wedge button when the pump is in sleep mode.</p> <p>For details about using the Easy Bolus feature, see <i>Easy Bolus feature, on page 91</i>.</p>

Bolus settings

The following table describes some bolus settings that you may need to change before you use your bolus options. Consult with your healthcare professional for the settings that are right for you.



Note: Additional settings are required to use the Bolus Wizard feature. These are described in the section, *Bolus Wizard feature, on page 73*.

Setting	What it is	What it does for you
Max bolus	Max bolus is the maximum amount of bolus insulin in units your pump can deliver in a single bolus.	Max bolus provides a safety feature that limits the total amount of bolus insulin you can program for a single bolus delivery. To set the max bolus amount, see <i>Max bolus</i> , on page 71.
Bolus Increment	The amount of insulin in units that is increased or decreased with each button press when adjusting your bolus amount. The Bolus Wizard feature also uses the increment to display the total amount and the adjustment amount of the bolus. This setting does not apply to the Easy Bolus feature.	You can set your increment value according to your typical bolus amounts. To set the bolus increment, see <i>Bolus increment</i> , on page 72.
Bolus Speed	The speed that your pump delivers your bolus insulin.	You can set your bolus insulin delivery speed to Standard or Quick. To set your bolus speed, see <i>Bolus speed</i> , on page 73.

Max bolus

The Max Bolus setting limits the amount of insulin that can be delivered in a single bolus. Your pump prevents single bolus insulin deliveries that exceed the max bolus you set. You can set your max bolus from 0 to 75 units. Set your max bolus as prescribed by your healthcare professional.

If you set your max bolus after you have set up your Preset Bolus deliveries, you cannot set your max bolus lower than any of your Preset Bolus amounts.

To set your max bolus:

1. Press  and go to the Max Basal/Bolus screen.
Menu > Insulin Settings > Max Basal/Bolus
2. Select **Max Bolus**.
3. Because the max bolus setting determines your bolus insulin limit, a Max Bolus alert appears any time you go to the screen to change the value. To continue to the Max Bolus screen, select **Continue**.
4. Select **Max Bolus**, and then set the maximum number of insulin units your pump can deliver in one bolus.
5. Select **Save**.

Example 1: Max bolus

Shelby takes very small doses of insulin for her meal boluses. As a safety limit, her healthcare professional had her reset her pump with a max bolus of 5.0 units.

Example 2: Max bolus

David is a growing teenager. He loves to eat big meals and requires very large doses of insulin for his food. David's healthcare professional had him reset his pump with a max bolus of 20.0 units so he can take more insulin when needed.

Bolus increment

The Bolus Increment setting determines the number of units that are increased or decreased with each button press when you adjust your bolus delivery amount in the Bolus Wizard, Manual Bolus, and Preset Bolus screens. Depending on your typical bolus amount, you can set your increment to 0.1 units, 0.05 units, or 0.025 units.



Note: The Easy Bolus feature uses a setting called Step Size to determine the number of insulin units for each button press. See *Setting up the Easy Bolus feature*, on page 91 for more information.

To set your bolus increment:

1. Press  and go to the Bolus Increment screen.
Menu > Insulin Settings > Bolus Increment
2. Select **Increment** to set your desired increment value.
3. Select **Save**.

Bolus speed

The Bolus Speed setting sets the rate at which your pump delivers bolus insulin. You can set a Standard rate (1.5 units per minute), or a Quick rate (15 units per minute).

To set your bolus speed:

1. Press  and go to the Bolus Speed screen.
Menu > Insulin Settings > Bolus Speed
2. Select **Standard** or **Quick**.
3. Select **Save**.

Bolus Wizard feature

The Bolus Wizard feature uses your individual Bolus Wizard settings to calculate an estimated bolus amount based on the BG values and carbs that you enter. Work with your healthcare professional to define your personal settings, which include your carb ratio or exchange ratio, insulin sensitivity, BG target range, and active insulin time.



Note: If you do not know how to count carbs, consult with your healthcare professional before using the Bolus Wizard feature.

After you set up the Bolus Wizard feature, you can use it to calculate and deliver a food bolus, a correction bolus, or a food plus correction bolus using a Normal bolus (see *Delivering a Normal bolus with the Bolus Wizard feature, on page 82*), Square Wave bolus (see *Delivering a Square Wave bolus with the Bolus Wizard feature, on page 86*), or Dual Wave bolus (see *Delivering a Dual Wave bolus with the Bolus Wizard feature, on page 88*).

The following sections describe how to set up the Bolus Wizard feature. Bolus delivery instructions are provided in the individual sections for each bolus type.

Understanding your Bolus Wizard settings

Your pump tells you to enter the following settings when you first turn on the Bolus Wizard feature. Get your prescribed settings from your healthcare professional, and always consult your healthcare professional before you change your settings. The setup procedure begins on *page 75*.

Setting	Description
Carb Ratio Exchange Ratio	The carb ratio setting is used for food bolus calculations. <ul style="list-style-type: none">• <i>If you count carbs:</i> the number of carb grams that are covered by 1 unit of insulin.• <i>If you count exchanges:</i> the number of insulin units that are needed to cover 1 carb exchange.
Insulin Sensitivity Factor	The insulin sensitivity factor setting is used to calculate correction bolus amounts. Your insulin sensitivity factor is the amount that BG is reduced by one unit of insulin.
BG Target	The Bolus Wizard feature calculates your estimated bolus based on your BG target range. The high and low values you set are the values to which your BG is corrected. To use a single target value rather than a range, set the same value for the high and low value of your BG target. If your BG value is above the high target value, a correction dose is calculated. If your BG value is below the low target value, a negative correction is calculated and subtracted from your food bolus.

Setting	Description
Active Insulin Time	<p>Active insulin is the bolus insulin that has been delivered by the pump and is still working to lower your BG levels. Active insulin time is the length of time that bolus insulin is tracked as active insulin.</p> <p>Work with your healthcare professional to get the active insulin time that best represents the insulin type you use and your physiological insulin absorption rate.</p> <p>For more information about how the Bolus Wizard feature uses your active insulin amount, see <i>About active insulin</i>, on page 80.</p>

Setting up the Bolus Wizard feature

Before you can use the Bolus Wizard feature to calculate a bolus, you must turn on the Bolus Wizard feature and enter your Bolus Wizard settings.

To set up the Bolus Wizard feature:

1. Press  and go to the Bolus Wizard Setup screen.

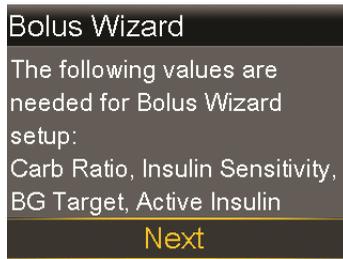
Menu > Insulin Settings > Bolus Wizard Setup

The Bolus Wizard Setup screen appears with the Bolus Wizard feature turned off.



2. Select **Bolus Wizard** to turn on the feature.

If this is the first time you have turned on the Bolus Wizard feature, your pump displays information about the settings you need to enter.



Make sure you have the values you need, and then select **Next** to continue.



Note: As you enter your personal settings, your pump displays information about each setting. Select **Next** to continue when you have read each explanation.

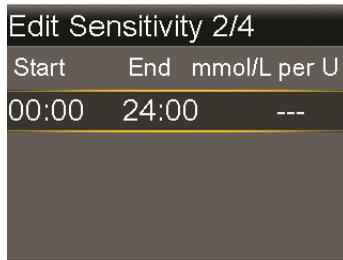
- When the Edit Carb Ratio screen appears, enter your carb ratio. If you are setting a carb ratio, set the grams per unit (g/U). If you are setting an exchange ratio, set the units per exchange (U/exch). You can set up to eight carb ratios using different time segments. The time segments must cover a 24-hour period.



Note: Your pump uses grams as the default carb unit. If you would like to change your carb unit to exchanges, see *Carb Unit, on page 147*.

If your ratio value is outside the range of 5 to 50 grams per unit or 0.3 to 3 units per exchange, a message appears asking you to confirm your setting.

- When the Edit Sensitivity screen appears, enter your insulin sensitivity factor. You can set up to eight different sensitivity factors using different time segments. The time segments must cover a 24-hour period.



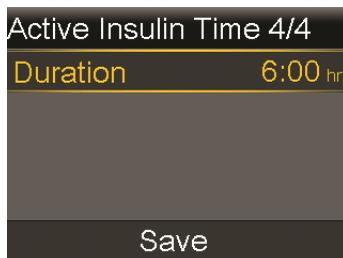
If the value you enter is outside the range of 1.1 to 5.6 mmol/L per U, a message appears asking you to confirm your setting.

- When the Edit BG Target screen appears, enter your Bolus Wizard BG target range. You can set up to eight different BG target ranges using different time segments. The time segments must cover a 24-hour period.



If your Bolus Wizard BG target is outside the range of 5.0 to 7.8 mmol/L, a message appears asking you to confirm your setting.

- When the Active Insulin Time screen appears, enter your active insulin time value.



- Select **Save**.

A message appears letting you know the Bolus Wizard setup is complete. You can now use the Bolus Wizard feature to calculate a bolus.

Changing your Bolus Wizard settings

This section shows you how to make changes to your personal settings after you initially set up the Bolus Wizard feature. Except for the carb or exchange ratio setting, these settings are available only if the Bolus Wizard feature is turned on. Always consult with your healthcare professional before you make changes to your personal settings.

Changing your carb or exchange ratio

You can change either your carb ratio or exchange ratio setting, depending on whether you use grams or exchanges as your carb unit. The carb ratio and exchange ratio settings are available only if the Bolus Wizard feature is turned on.



Note: Your pump uses grams as the default carb unit. If you would like to change your carb unit to exchanges, see *Carb Unit*, on page 147.

To change your carb or exchange ratio:

1. Press  and go to the Carb Ratio screen or the Exchange Ratio screen, depending on the carb units you use.

Menu > Insulin Settings > Bolus Wizard Setup > Carb Ratio

or

Menu > Insulin Settings > Bolus Wizard Setup > Exchange Ratio

2. Select **Edit**.
3. Set the carb units to grams or exchanges to adjust the Start time, the End time, and the ratio. You can set up to eight different carb or exchange ratios using different time segments. The time segments must cover a 24-hour period.

If you set a value outside the typical range of 5 to 50 grams per unit or 0.3 to 3 units per exchange, a screen appears and tells you to confirm your setting.

4. Select **Save** after you make your changes.

Changing your insulin sensitivity factor

The insulin sensitivity factor option is only available if the Bolus Wizard feature is turned on.

To change your insulin sensitivity factor:

1. Press  and go to the Sensitivity screen.
Menu > Insulin Settings > Bolus Wizard Setup > Insulin Sensitivity Factor
2. Select **Edit**.
3. Select the insulin sensitivity factor to adjust the Start time, the End time, and the Sensitivity amount. You can set up to eight different sensitivity amounts using different time segments. The time segments must cover a 24-hour period.

If you set a value that is outside the typical range of 1.1 to 5.6 mmol/L per unit, a screen appears and tells you to confirm your setting.
4. Select **Save** after you make your changes.

Changing your Bolus Wizard BG target

Your target range can be from 3.3 to 13.9 mmol/L. The Bolus Wizard BG target option is only available if the Bolus Wizard feature is turned on.

To change your Bolus Wizard BG target range:

1. Press  and go to the BG Target screen.
Menu > Insulin Settings > Bolus Wizard Setup > BG Target
2. Select **Edit**.
3. Select the BG target to adjust the Start time, the End time, and the Lo (low) and Hi (high) BG Target values. Your high value cannot be less than your low value. You can set up to eight different values using different time segments. The time segments must cover a 24-hour period.

If your BG target is outside the typical range of 5.0 to 7.8 mmol/L, a screen appears and tells you to confirm your setting.
4. Select **Save** after you make your changes.

Changing your active insulin time

The active insulin time setting lets the pump know which active insulin time to use in calculating the amount of active insulin to subtract before estimating a bolus. Your healthcare professional prescribes the active insulin time that is best for you.

To change your active insulin time:

1. Press  and go to the Active Insulin Time screen.
Menu > Insulin Settings > Bolus Wizard Setup > Active Insulin Time
2. Select **Duration**, and then adjust your active insulin time in hours, using 15-minute increments.
3. Select **Save**.

Turning off the Bolus Wizard feature

You can turn off the Bolus Wizard feature at any time. Your Bolus Wizard settings remain in your pump. When the Bolus Wizard feature is turned off, the Bolus Wizard option does not appear in the Bolus menu, and you cannot edit your Carb Ratio, Insulin Sensitivity Factor, or BG Target settings from the Bolus Wizard Setup screen.

To turn off the Bolus Wizard feature:

1. Press  and go to the Bolus Wizard Setup screen.
Menu > Insulin Settings > Bolus Wizard Setup
2. Select **Bolus Wizard** to turn the feature off.

About active insulin

Active insulin is the bolus insulin that has already been delivered to your body and is still working to lower your BG levels. The pump uses your active insulin time setting to determine if any active insulin is still in your body from prior boluses. This may help prevent hypoglycemia caused by overcorrection of high BG.

Your current active insulin amount displays on the Home screen and includes only the bolus insulin you already received.

When you use the Bolus Wizard feature, the Bolus Wizard calculator uses your current active insulin value to determine if there is an active insulin adjustment needed. The active insulin adjustment calculation considers both the bolus insulin that has previously been delivered (the amount shown on the Home screen), as well as any insulin that will be delivered by an active Square Wave bolus.



WARNING: Do not use the Bolus Wizard feature to calculate a bolus for a period of time after giving a manual injection of insulin by syringe or pen. Manual injections are not accounted for in the active insulin amount. Therefore, the Bolus Wizard feature could prompt you to deliver more insulin than needed. Too much insulin can cause hypoglycemia. Consult with your healthcare professional for how long you need to wait after a manual injection of insulin before you can rely on the active insulin calculation of the Bolus Wizard feature.

Bolus Wizard feature alerts

When you use the Bolus Wizard feature, there may be times when you see one of the following:

Alert:	What it means:	What to do:
High BG	Your BG meter reading is above 13.9 mmol/L.	<ul style="list-style-type: none">• Check infusion set.• Check ketones.• Consider an insulin injection.• Monitor your BG.
Low BG	Your BG meter reading is below 3.9 mmol/L.	Treat your low BG. Do not give yourself a bolus until your BG returns to normal.
Max Bolus exceeded	The bolus amount exceeds your Max Bolus setting.	<p>Check the bolus amount. Select No to cancel, or Yes to continue. If you select Yes, the bolus amount is reduced to your max bolus limit.</p> <p>Let your healthcare professional know if you routinely receive the Max Bolus exceeded alert so they can adjust your pump settings.</p>

Normal bolus

A Normal bolus provides a single immediate dose of insulin. Use a Normal bolus to cover your food intake or to correct a high BG meter reading.

You cannot access the Reservoir & Tubing, Delivery Settings, or Sensor Settings menu options during a Normal bolus delivery.



Note: Your pump lets you deliver a Normal bolus while a Square Wave bolus or the Square portion of a Dual Wave bolus is being delivered.

Delivering a Normal bolus with the Bolus Wizard feature

To deliver a Normal bolus using the Bolus Wizard feature:

1. For a correction bolus or a food bolus with a correction, use your BG meter to check your BG. For a food bolus only, go to step 2.
2. From the Home screen select **Bolus** and go to the Bolus Wizard screen.

Home screen > Bolus > Bolus Wizard

The Bolus Wizard screen shows your current BG meter reading, if applicable, and any insulin that is still active from previous boluses. For more information about active insulin, see *About active insulin, on page 80*. For more information about the meter, see *About your Accu-Chek Guide Link meter, on page 117*.

Bolus Wizard	09:00
BG 7.2 mmol/L	0.2 U
Active Ins. adjust.	-0.2 U
Carbs 0g	0.0 U
Bolus	0.0 U
Next	

3. If you are not using a paired meter, you can select **BG** to manually enter your BG meter reading.



Note: If you choose not to enter a BG value, three dashes appear on the screen in place of the BG value.

- For a food bolus, select **Carbs** to enter the carb count of your meal. For a correction bolus where no food was eaten, leave the Carbs value at 0.
- Your calculated bolus appears in the Bolus field.

Bolus Wizard	09:00
BG 7.2 mmol/L	0.2 U
Active Ins. adjust.	-0.2 U
Carbs 35g	1.4 U
Bolus	1.4 U
Next	

If a change to the bolus amount is needed, select **Bolus**. If you change your bolus amount, the word “Modified” appears next to the new bolus amount.

Bolus Wizard	09:00
BG 7.2 mmol/L	0.2 U
Active Ins. adjust.	-0.2 U
Carbs 35g	1.4 U
Bolus Modified	1.3 U
Next	

- Select **Next** to review your bolus information. Your bolus amount appears.



Note: If you modified your bolus amount in the previous step, **Bolus Calculated** shows your original bolus amount, **Modification** shows the amount you added or subtracted from your bolus, and **Bolus** shows the actual bolus amount.

Bolus Wizard	09:00
Bolus Calculated	1.4 U
Modification	-0.1 U
Bolus	1.3 U
Deliver Bolus	

7. Select **Deliver Bolus** to start your bolus.



Your pump beeps or vibrates and a message appears when your bolus starts. The Home screen shows your bolus amount as it is being delivered. Your pump beeps or vibrates when your bolus is complete.

Delivering a Normal bolus using Manual Bolus

The following procedure describes how to deliver a Normal bolus using the Manual Bolus feature.

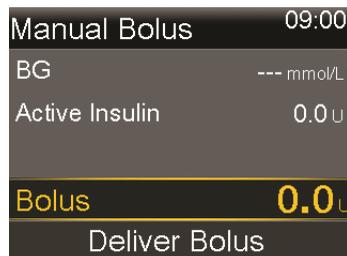
To deliver a Normal bolus using Manual Bolus:

1. From the Home screen select **Bolus** and go to the Manual Bolus screen.

Home screen > Bolus > Manual Bolus



Note: If the Bolus Wizard feature is turned off, the Manual Bolus screen appears when you select Bolus.



The Manual Bolus screen shows your current BG value, if applicable, and any insulin that is still active from previous boluses. For more information about active insulin, see *About active insulin, on page 80*.

2. Select **Bolus** to set your bolus delivery amount in units.
3. Select **Deliver Bolus** to start your bolus.

Your pump beeps or vibrates and a message appears when your bolus starts. The Home screen shows your bolus amount as it is being delivered. Your pump beeps or vibrates when your bolus is complete.

Square Wave bolus

A Square Wave bolus delivers a bolus evenly over a period of time from 30 minutes up to 8 hours.

When using the Bolus Wizard feature, a Square Wave bolus is available only when giving a food bolus without a correction for an elevated BG. A Square Wave bolus is not available for a correction bolus alone or a correction bolus with food bolus.

A Square Wave bolus can be useful in the following situations:

- You have delayed food digestion due to gastroparesis or meals high in fat.
- When you snack over an extended period of time.
- A Normal bolus drops your BG too rapidly.

Since the Square Wave bolus extends delivery over a period of time, the insulin is more likely to be available as you need it.



Note: You cannot perform the following functions during a Square Wave bolus delivery:

- Change the Max Bolus or the Active Insulin Time settings.
- Set a second Square Wave or a Dual Wave bolus.
- Turn off the Dual Wave or Square Wave options.
- Fill the cannula.
- Rewind your pump.
- Run a self test.
- Access the Manage Settings menu.

All other functions are available during the Square Wave bolus.

Turning on or off the Square Wave bolus feature

You can deliver a Square Wave bolus only after you turn on the Square Wave bolus feature.

To turn on or turn off the Square Wave bolus feature:

1. Press  and go to the Dual/Square Wave screen.
Menu > Insulin Settings > Dual/Square Wave
2. Select **Square Wave** to turn the feature on or off.
3. Select **Save**.

Delivering a Square Wave bolus with the Bolus Wizard feature

You can deliver a Square Wave bolus with the Bolus Wizard feature only after you turn the Square Wave option on. Also, you must have entered a value for your carbs.

To deliver a Square Wave bolus with the Bolus Wizard feature:

1. From the Home screen select **Bolus** and go to the Bolus Wizard screen.

Home screen > Bolus > Bolus Wizard

The Bolus Wizard screen shows your current BG meter reading, if applicable, and any insulin that is still active from previous boluses. For more information about active insulin, see *About active insulin, on page 80*. For more information about the meter, see *About your Accu-Chek Guide Link meter, on page 117*.

2. If you are not using a paired meter, you can select **BG** to manually enter your BG meter reading.



Note: If you choose not to enter a BG meter reading, three dashes appear on the screen instead.

3. Select **Carbs** to enter the amount of carbs in your food.
4. Review your calculated bolus amount in the Bolus field. If you want to change the bolus amount, select **Bolus** and make your desired change. Remember, if there is a correction bolus amount calculated, you are not able to give a Square Wave bolus.



Note: If you change your bolus amount, the word “Modified” appears next to the new bolus amount.

5. Select **Next** to review your bolus information.
6. Select **Square**.

The Bolus Wizard screen appears with your bolus amount.
7. Select **Duration** to adjust the time period over which you want your Square Wave bolus to be delivered. The duration can be set in 15-minute increments from 30 minutes to 8 hours.
8. Select **Deliver Bolus** to start your bolus.

During a Square Wave bolus delivery, the Bolus button on your Home screen appears as **Bolus (S)**. You can select **Bolus (S)** to stop the bolus, to see details on the insulin that has been delivered, or to access the Bolus menu.

Delivering a Square Wave bolus using Manual Bolus

The Square Wave bolus option is available in the Manual Bolus screen only after you turn on the Square Wave feature.

To deliver a Square Wave bolus manually:

1. From the Home screen select **Bolus** and go to the Manual Bolus screen.

Home screen > Bolus > Manual Bolus
2. Set your bolus delivery amount in units, and then select **Next**.
3. Select **Square**.
4. Select **Duration** to adjust the time period over which you want your Square Wave bolus to be delivered. The duration can be set in 15-minute increments from 30 minutes to 8 hours.
5. Select **Deliver Bolus** to start your bolus.

During a Square Wave bolus delivery, the Bolus button on your Home screen appears as **Bolus (S)**. You can select **Bolus (S)** to stop the bolus, to see details on the insulin that has been delivered, or to access the Bolus menu.

Dual Wave bolus

The Dual Wave bolus feature meets both immediate and extended insulin needs by delivering a combination of an immediate Normal bolus followed by a Square Wave bolus.

A Dual Wave bolus can be useful in these situations:

- When you need to correct an elevated BG before a meal, and you also need a delayed bolus for food that is absorbed slowly.
- When you eat meals with mixed nutrients, such as carbs, fats and proteins, that are absorbed at different rates.

Turning on or off the Dual Wave bolus feature

You can deliver a Dual Wave bolus only after you turn on the Dual Wave bolus feature.

To turn on or turn off the Dual Wave bolus feature:

1. Press  and go to the Dual/Square Wave screen.
Menu > Insulin Settings > Dual/Square Wave
2. Select **Dual Wave** to turn the feature on or off.
3. Select **Save**.

Delivering a Dual Wave bolus with the Bolus Wizard feature

You can deliver a Dual Wave bolus with the Bolus Wizard feature only after you turn on the Dual Wave bolus feature.

To deliver a Dual Wave bolus with the Bolus Wizard feature:

1. For a correction bolus or a food bolus with a correction, use your BG meter to check your BG. For a food bolus only, go to step 2.
2. From the Home screen select **Bolus** and go to the Bolus Wizard screen.

Home screen > Bolus > Bolus Wizard

The Bolus Wizard screen shows your current BG meter reading, if applicable, and any insulin that is still active from previous boluses. For more information about active insulin, see *About active insulin, on page 80*. For more information about the meter, see *About your Accu-Chek Guide Link meter, on page 117*.

3. If you are not using a paired meter, you can select **BG** to manually enter your BG meter reading.



Note: If you choose not to enter a BG value, three dashes appear on the screen in place of the BG value.

4. For a food bolus, select **Carbs** to enter the carb count of your meal. For a correction bolus where no food was eaten, leave the Carbs value as 0.
5. Review your calculated Bolus amount. If you want to change the amount, select **Bolus** and make your desired change.



Note: If you change your bolus amount, the word “Modified” appears next to the new bolus amount.

6. Select **Next** to review your bolus information.
7. Select **Dual**.
The Bolus Wizard screen appears, with the food bolus amount split evenly between the Now and Square portions.
8. If you need to change the amounts, select the area of the screen with the Now value and adjust the **Now** amount.

When you adjust the Now amount, the Square amount adjusts automatically.

Bolus Wizard		09:00
Bolus		1.8 U
Now	28 %	0.5 U
Square	72 %	1.3 U
Duration		3:00 hr
Deliver Bolus		

9. Adjust the **Duration** over which you want the Square Wave bolus portion to be delivered. The duration can be from 30 minutes to 8 hours.
10. Select **Deliver Bolus** to start your bolus.

During a Dual Wave bolus delivery, the Home screen shows the progress of the Now portion of your delivery. When the Now portion is complete, the Bolus button on your Home screen appears as **Bolus (D)**. You can select **Bolus (D)** to stop the bolus, to see details on the amount of bolus insulin delivered, or to access the Bolus menu.

Delivering a Dual Wave Bolus using Manual Bolus

You can deliver a Dual Wave bolus from the Manual Bolus screen only after you turn on the Dual Wave bolus feature.

To deliver a Dual Wave bolus using Manual Bolus:

1. From the Home screen select **Bolus** and go to the Manual Bolus screen.

Home screen > Bolus > Manual Bolus

The Manual Bolus screen appears.

2. Set your bolus delivery amount in units, and then select **Next**.
3. Select **Dual**.

The Manual Bolus screen appears, with the Now and Square portions split evenly.

Manual Bolus	09:00	
Bolus	0.8 U	
Now	50 %	0.4 U
Square	50 %	0.4 U
Duration	0:30	hr
Deliver Bolus		

4. If you need to change the amounts, select the area of the screen with the Now value and adjust the **Now** amount. When you adjust the Now amount, the Square amount adjusts automatically.
5. Adjust the **Duration** over which you want the Square Wave bolus portion to be delivered. The duration can be from 30 minutes to 8 hours.
6. Select **Deliver Bolus** to start your bolus.

During a Dual Wave bolus delivery, the Home screen shows the progress of the Now portion of your delivery. When the Now portion is complete, the Bolus button on your Home screen appears as **Bolus (D)**. You can select **Bolus (D)** to stop the bolus, to see details on the amount of bolus insulin delivered, or to access the Bolus menu.

Easy Bolus feature

The Easy Bolus feature lets you quickly deliver a Normal bolus using only the \wedge button. Your pump must be in sleep mode to use the Easy Bolus feature.

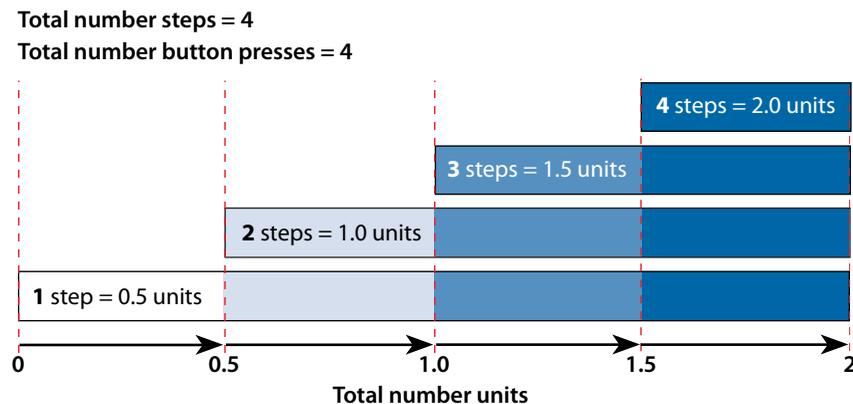
Before you use the Easy Bolus feature, you must turn on the feature and set the step size. The step size determines the number of units the bolus amount increases each time you press the \wedge button. Your Easy Bolus delivery is limited to 20 steps or your max bolus limit, whichever comes first.

To help you count your Easy Bolus steps, each time you press the \wedge button, your pump makes a different tone. There are five different tones that repeat in a pattern for every five steps you use. If your audio options are set to Vibrate only, the pump does not beep at all, and instead it vibrates once with each key press.

Understanding the Easy Bolus step sizes

When you set up the Easy Bolus feature, you can set the step size from 0.1 to 2.0 units. Your step size cannot be higher than your max bolus. Set the step size to a number that makes it easy for you to calculate your bolus amount.

The following example shows how your bolus amount is increased with each step or each press of the \wedge button when using the Easy Bolus feature to deliver a bolus. In this example, the step size is 0.5 units. For a delivery of 2.0 units, you need four steps. Press the \wedge button four times when using the Easy Bolus feature.



Setting up the Easy Bolus feature

The Easy Bolus option is available only after you turn on the Easy Bolus feature.

To set up the Easy Bolus feature:

1. Press  and go to the Easy Bolus screen.
Menu > Insulin Settings > Easy Bolus
2. Select **Easy Bolus** to turn on the feature.
3. Set the **Step Size** amount in units. You can set the step size from 0.1 to 2.0 units. Your step size cannot be higher than your max bolus.
4. Select **Save**.

Delivering a bolus using the Easy Bolus feature

Initially, use the Easy Bolus feature while you look at the pump screen as you count the tones or vibrations.



WARNING: Never rely on beeps or vibrations alone while using the Easy Bolus feature. Always confirm your insulin delivery by looking at your pump screen. When using the Audio or Vibrate options, it is possible that an audio or vibration notification may not occur as expected if the speaker or vibrator in your pump malfunctions. Relying on beeps or vibrations while using the Easy Bolus feature could result in over delivery of insulin.

To use the Easy Bolus feature, your pump must be in sleep mode. Your pump automatically goes into sleep mode two minutes after the screen turns off. Press and hold the  button for about two seconds to manually put your pump into sleep mode.

To deliver a bolus using the Easy Bolus feature:

1. While your pump is in sleep mode, press and hold  for about one second. After your pump beeps or vibrates, release . You can now start to program your bolus with the Easy Bolus feature.



Note: If your pump does not respond when you press , it may not be in sleep mode, even if the screen is dark.

2. Press  the number of times needed to set your bolus amount.

Each time you press \wedge , your pump makes a tone or vibrates, and your bolus amount increases by the number of units set for the step size.



Note: You cannot use \vee to select the Easy Bolus values. Pressing \vee cancels the Easy Bolus delivery.

3. When you reach the desired bolus amount, press and hold \wedge to confirm the amount. Your pump beeps or vibrates for each button press. Count to ensure the amount is correct. If the amount is incorrect, press and hold \vee until you hear a tone, and then start again from step 1.
4. When the bolus amount is confirmed, press and hold \wedge for about one second to deliver your bolus. Your pump beeps or vibrates. Your bolus starts immediately after the confirmation.



Note: If you do not start your bolus within 10 seconds, the bolus is canceled and a message appears to notify you that your bolus was not delivered.

Preset bolus

The Preset Bolus feature lets you set up in advance bolus deliveries you expect to use frequently. There are four preset bolus names that let you match a bolus to a meal with a known carb content: Breakfast, Lunch, Dinner, and Snack. There are four additional preset bolus names you can set for other circumstances. These are numbered from Bolus 1 to Bolus 4.



Note: To set up a Dual Wave bolus or Square Wave bolus, the Dual Wave bolus or Square Wave bolus feature must be turned on.

Setting up and managing preset bolus deliveries

To set up preset bolus amounts:

1. Press \blacklozenge and go to the Preset Bolus Setup screen.

Menu > Insulin Settings > Preset Bolus Setup

The Preset Bolus Setup screen appears and shows any existing Preset Bolus settings.

2. Select **Add New**.

The Select Name screen appears with the available Preset Bolus names.

3. Select a preset bolus.

The Edit screen for that particular preset bolus appears.

4. Select **Bolus** to set the bolus amount.
5. Select **Type** to set this as a Normal bolus, Square Wave bolus, or Dual Wave bolus.



Note: The **Type** field appears only when you have the Dual Wave bolus or Square Wave bolus features turned on.

If you set the type to Square Wave or Dual Wave, do the following:

- For a Square Wave bolus, set the **Duration** of time for the bolus delivery.
- For a Dual Wave bolus, adjust the **Now/Square** percentages as needed, and then set the **Duration** of time for the Square Wave portion of the bolus.



Note: If you later turn off the Dual Wave bolus or Square Wave bolus feature, your existing Preset Bolus settings are still available for use.

6. Select **Save**.

Editing, renaming, or deleting a preset bolus

You cannot delete, rename, or edit a preset bolus during preset bolus delivery.



Note: You can only edit a Dual Wave Preset Bolus or Square Wave Preset Bolus when the Dual Wave bolus or Square Wave bolus features are turned on.

To edit, rename, or delete a preset bolus:

1. Press  and go to the Preset Bolus Setup screen.
Menu > Insulin Settings > Preset Bolus Setup
The Preset Bolus Setup screen appears and shows any existing Preset Bolus settings.
2. Select the preset bolus you want to change.
3. Select **Options**.
4. Do any of the following:
 - Select **Edit** to adjust the Bolus value and Type, if applicable. If you change to a Square Wave bolus, enter the Duration. If you change to a Dual Wave bolus, enter the Now and Square amounts, and the Duration.
 - Select **Rename** to assign a different name to this preset bolus. When the Select Name screen appears, select any available name from the list.
 - Select **Delete** to delete this preset bolus.

Delivering a preset bolus

You must set up preset bolus deliveries before you can use the Preset Bolus feature. For more information, see *Setting up and managing preset bolus deliveries, on page 93*.

To deliver a preset bolus:

1. From the Home screen, select **Bolus** and go to the Preset Bolus screen.
Home > Bolus > Preset Bolus
The Preset Bolus screen shows your current BG value, if applicable, and any insulin that is still active from previous boluses. For more information about active insulin, see *About active insulin, on page 80*.
2. Select the preset bolus you want to deliver.
3. Review your bolus amounts, and then select **Deliver Bolus**.
Your pump displays a progress bar on the Home screen when your bolus starts. The pump beeps or vibrates when delivery starts and when delivery finishes.

Stopping a bolus delivery

The following procedures describe how to stop a Normal bolus or a Dual Wave bolus during the Now portion delivery. The procedures also describe how to stop a Square Wave bolus or a Dual Wave bolus during the Square portion delivery.



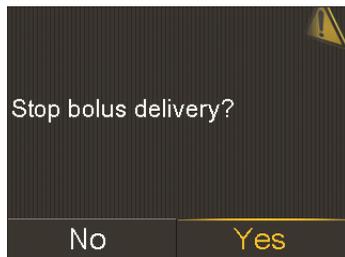
Note: This procedure describes how to stop a bolus that is in progress. It does not stop your basal insulin delivery. If you need to stop all insulin delivery, use the Suspend Delivery feature (**Menu > Suspend Delivery**).

To stop a Normal bolus delivery or the Now portion of a Dual Wave bolus delivery:

1. While your pump is delivering your Normal bolus or the Now portion of a Dual Wave bolus, select **Stop Bolus** from the Home screen.



2. To stop your bolus, select **Yes** to confirm.



Note: If you are delivering a Normal bolus and a Square Wave bolus at the same time, or a Normal bolus and the Square portion of a Dual Wave bolus at the same time, both boluses are stopped.

The Bolus Stopped screen appears and shows the amount of bolus delivered, and the original bolus amount you set up.

To stop a Square Wave bolus delivery or the Square portion of a Dual Wave bolus delivery:

1. Select **Bolus (S)** or **Bolus (D)** from the Home screen.
2. Select **Stop Bolus**.
3. To stop your bolus, select **Yes** to confirm.



Note: If you are delivering a Normal bolus and a Square Wave bolus at the same time, or a Normal bolus and the Square portion of a Dual Wave bolus at the same time, both boluses are stopped.

The Bolus Stopped screen appears and shows the amount of bolus delivered, and the original bolus amount you set up.

Reservoir and infusion set

5



5 Reservoir and infusion set

Setting up the reservoir and infusion set

When you are ready to use your pump with insulin, make sure the time and date are correct on your pump. For details on changing the time and date on your pump, see *Time and date, on page 155*. You must also program your settings as instructed by your healthcare professional.

You need the following items:

- MiniMed 740G insulin pump
- Vial of insulin (U-100)
- MiniMed reservoir
- MiniMed-compatible infusion set and its user guide



WARNING: Clear the active insulin value before using your pump to deliver insulin for the first time. If you have practiced giving boluses on your pump before using insulin, the active insulin value could be inaccurate. This could result in inaccurate insulin delivery, and serious injury. For details, see *Clearing your active insulin, on page 151*.

Removing the reservoir

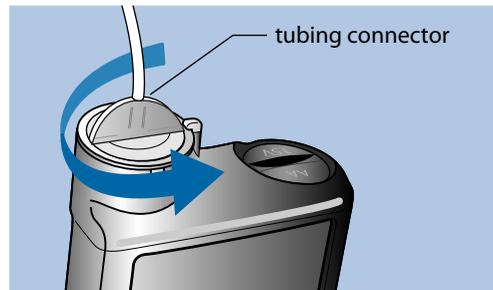
If this is the first time you are inserting a reservoir into your pump and you do not currently have a reservoir loaded, go to *Rewinding your pump, on page 102*.



WARNING: Never insert the reservoir into the pump while the tubing is connected to your body. Doing so could result in an accidental infusion of insulin, which may cause low BG.

To remove your reservoir:

1. Wash your hands.
2. Disconnect the infusion set from the body.
3. If you have the optional activity guard attached to the reservoir compartment on your pump, remove it now.
4. Turn the tubing connector counter-clockwise until the reservoir and tubing connector can be pulled free of the pump.



5. Dispose of the used reservoir and infusion set according to local regulations, or contact your healthcare professional for disposal information.

Rewinding your pump

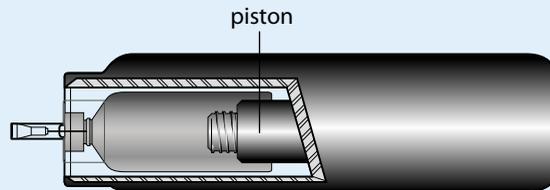


WARNING: Always make sure the infusion set is disconnected from your body before you rewind your pump or fill the infusion set tubing. Never insert the reservoir into the pump while the tubing is connected to your body. Doing so could result in an accidental infusion of insulin, which can cause low BG.

When you rewind your pump, the piston in the reservoir compartment returns to its starting position and lets a new reservoir be placed into the pump.



Note: The piston is located in the reservoir compartment of your pump. It engages the reservoir and pushes insulin through the tubing.



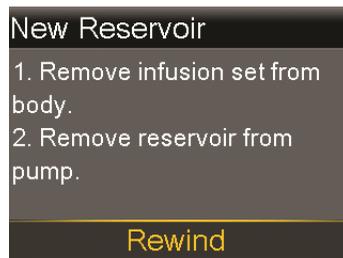
To rewind your pump:

1. Press  and go to the New Reservoir screen.

Menu > Reservoir & Tubing > New Reservoir

The New Reservoir screen appears.

If you have not yet removed the infusion set and reservoir, do so now.



2. Select **Rewind**.

The piston in the reservoir compartment of your pump returns to its starting position. This may take several seconds. During this process, a "Rewinding" message appears.

Another message appears to notify you that your pump has finished rewinding, and then the New Reservoir screen appears.

New Reservoir

1. Fill reservoir.
2. Connect tubing to reservoir.

DO NOT CONNECT TO BODY.

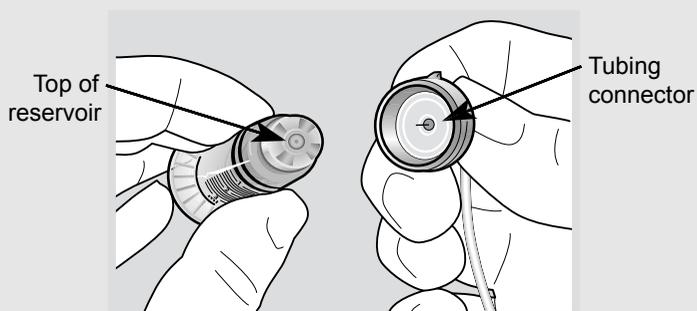
Next

3. Follow the instructions in the next section to fill your reservoir.

Filling the reservoir



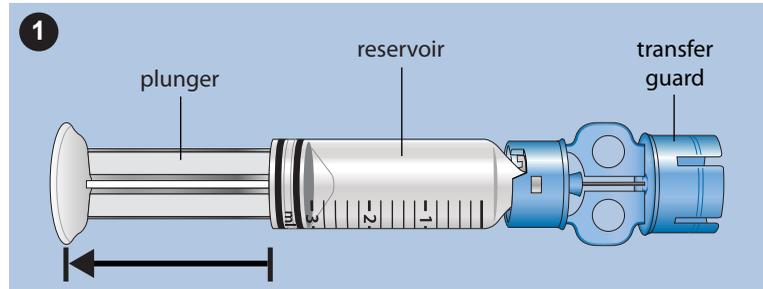
WARNING: Do not use the reservoir or infusion set if any liquid gets on the top of the reservoir or inside the tubing connector (as shown in the image). Liquid can temporarily block the vents. This may result in the delivery of too little or too much insulin, which can cause hyperglycemia or hypoglycemia. If any liquid gets on the top of the reservoir or inside the tubing connector, start over with a new reservoir and infusion set.



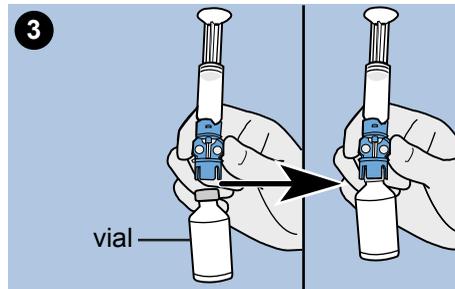
WARNING: Always allow your insulin to reach room temperature before use. Cold insulin can cause air bubbles in the reservoir and tubing, which may result in inaccurate insulin delivery.

To fill the reservoir, do these steps:

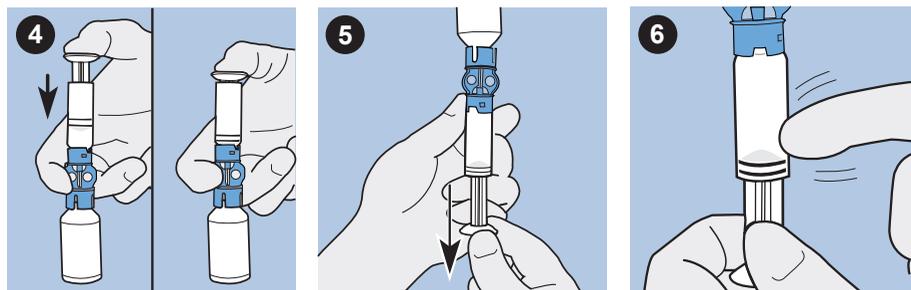
1. Remove the reservoir from the package and fully extend the plunger.



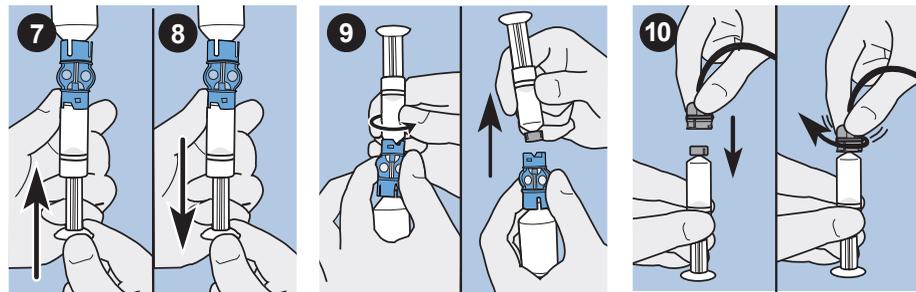
2. Swab the vial with alcohol (not shown).
3. Press the transfer guard onto the vial without pushing down on the plunger.



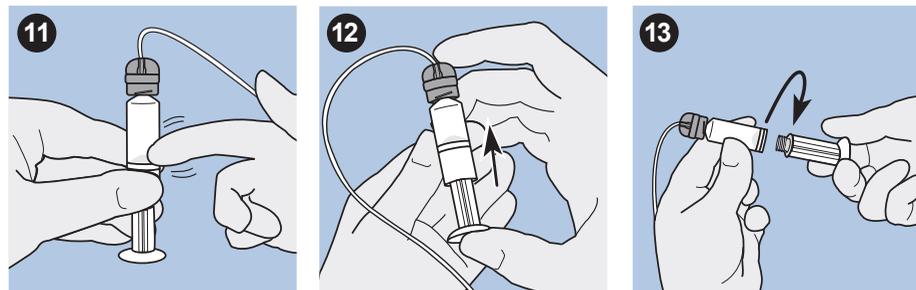
4. Push down on the plunger to pressurize the vial. Hold down the plunger rod.
5. While still holding down the plunger rod, flip the vial over so the vial is on top. Slowly pull down on the plunger to fill the reservoir.
6. Gently tap the side of the reservoir to make any air bubbles rise to the top of the reservoir.



7. Slowly push up on the plunger just enough to remove any air bubbles from the reservoir.
8. Slowly pull down on the plunger to fill the reservoir to the number of units desired.
9. To avoid getting liquid on the top of the reservoir, flip the vial over so that it is upright. Turn the reservoir counter-clockwise, then pull straight up to remove the reservoir from the transfer guard.
10. Place the tubing connector onto the reservoir. Turn the connector clockwise, pressing gently against the reservoir until you feel it slide in. Push in and continue turning until the reservoir and the connector lock with a click.



11. Tap the side of the reservoir to remove any air bubbles.
12. To purge air bubbles that have risen to the top of the reservoir, push up on the plunger until you see insulin in the tubing.
13. Without pulling, turn the plunger counter-clockwise to remove it from the reservoir.



14. Select **Next** from the New Reservoir screen.



The New Reservoir screen now instructs you to place the reservoir in your pump.



Note: If the New Reservoir screen has timed out and the Home screen appears, select **Load Reservoir** from the Home screen.

15. Follow the instructions in the next section to insert the reservoir into the reservoir compartment of your pump immediately after filling it.

Inserting the reservoir into your pump

Be sure to perform the following steps in the order they are presented.



Note: Do not insert the reservoir into your pump until you receive training.

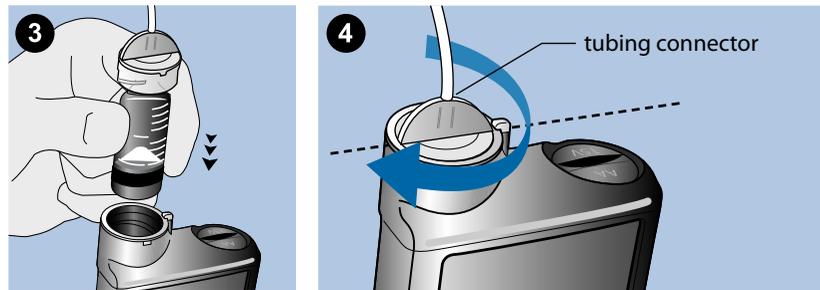


WARNING: Always rewind your pump before inserting a new reservoir. Failing to rewind your pump could result in an accidental infusion of insulin, which can cause hypoglycemia.

Never insert the reservoir into the pump while the tubing is connected to your body. Doing so could result in an accidental infusion of insulin, which can cause hypoglycemia.

To insert the reservoir into your pump:

1. If you are using the pump for the first time, remove the shipping cap from the reservoir compartment.
2. Rewind your pump if you have not yet done so. See *Rewinding your pump*, on page 102 for more information.
3. Insert the reservoir into the top of the reservoir compartment.
4. Turn the tubing connector clockwise until the connector is locked into the pump. The tubing connector should be aligned horizontally with the pump case as shown in the following example.



5. Your pump should be displaying the New Reservoir screen shown in the following example. Select **Next** to continue.





Note: If the New Reservoir screen has timed out and the Home screen appears, select **Load Reservoir** from the Home screen. After the New Reservoir screen appears, you may have to select **Next** to get to the screen shown previously.

6. Select and hold **Load** until you see a checkmark on the screen and your pump beeps or vibrates. Holding **Load** moves the piston up in the reservoir compartment until it engages with the bottom of the reservoir.



Note: If you press the **Back** button after the loading process begins, a Loading incomplete alarm will occur.

When the loading process is completed, the following screen appears.



7. Select **Next** to continue.
8. Follow the instructions in the next section to fill the tubing with insulin.

Filling the tubing

You need to fill the infusion set tubing with insulin before you insert the set into the body.



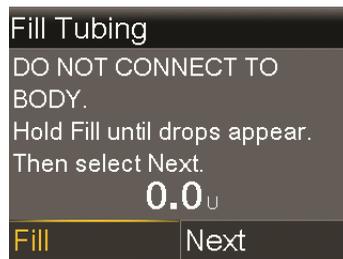
WARNING: Always make sure the infusion set is disconnected from your body before you rewind your pump or fill the infusion set tubing. Never insert the reservoir into the pump while the tubing is connected to your body. Doing so could result in an accidental infusion of insulin, which can cause low BG.



WARNING: Always check your tubing for air bubbles. Continue to press **Fill** until the bubbles have been removed from the tubing. Air bubbles may result in inaccurate insulin delivery.

To fill the tubing:

1. After you load your reservoir and select **Next** from the Load Reservoir screen, the Fill Tubing screen appears.



2. Select and hold **Fill**. Your pump beeps six times as it dispenses insulin into the tubing toward the infusion set needle. Continue to hold **Fill** until insulin droplets form on the tip of the infusion set needle, and then release. Your pump beeps as it fills the tubing, and the amount of insulin used appears on the screen.

If the Max Fill reached alarm occurs, it means you have used more than 30 units of insulin to fill your tubing. For details, go to *Pump alarms, alerts, and messages*, on page 206, and see the description for Max Fill reached.

3. Select **Next** to continue.
4. Follow the instructions in the next section to insert the infusion set into your body before filling the cannula.

Inserting the infusion set



WARNING: Do not remove the reservoir from the pump while the infusion set is connected to your body. Doing so could result in the delivery of too little or too much insulin, which can cause high BG or low BG.

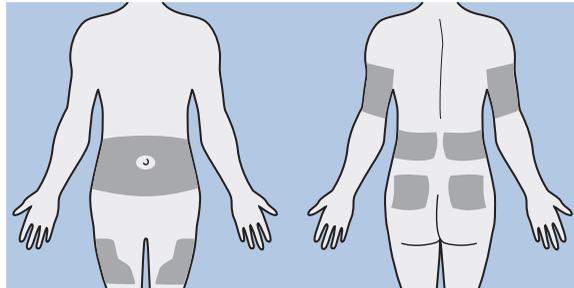
You must complete the following procedures, as described previously, before you insert the infusion set into your body:

- Rewind your pump.
- Fill your reservoir.
- Insert the reservoir into pump.
- Fill the tubing with insulin.

The best body areas for infusion set insertion are shaded in the following example. Avoid the 5.0 cm (2-inch) area around the navel to help ensure a comfortable infusion site and to help with adhesion.



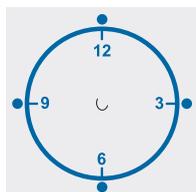
CAUTION: Do not use the same infusion set insertion site for an extended period of time. This can cause the site to become overused. Rotate the infusion set insertion sites regularly.



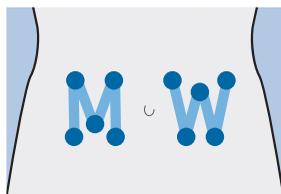
CAUTION: Always change your infusion set according to the product labeling. Using the same infusion set for an extended period of time can cause infusion set occlusion or site infection.

To keep sites healthy, use a visual scheme to help you rotate your insertion sites in an organized way. The following methods are commonly used. For maximum effectiveness, alternate the use of both methods.

- Visualize an imaginary clock drawn on your abdomen around your belly button. Rotate infusion set insertion sites by starting at 12 o'clock and then rotate the infusion site clockwise to 3 o'clock, 6 o'clock, and so on.



- Imagine a letter M or a letter W on either side of your belly button. Start at the end of one letter and proceed through the letter, rotating to each intersection in turn.



Medtronic Diabetes offers a variety of infusion sets for your pump.



Note: Always refer to your infusion set user guide for instructions to insert an infusion set.

After your infusion set is inserted, see *Filling the cannula, on page 112* to fill the infusion set cannula.

Filling the cannula

Filling the soft cannula with insulin is required after the infusion set is inserted into your body and the introducer needle is pulled out. The insulin amounts required to fill the cannula depend on the type of infusion set you use. Refer to your infusion set instructions for this information.



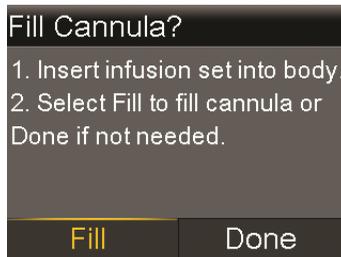
Note: If you use a steel needle infusion set, there is no cannula to fill. Select **Done** on the **Fill Cannula?** screen.



WARNING: Never leave your pump on the **Fill Cannula?** screen. Insulin delivery is suspended while on the **Fill Cannula?** screen. Always finish filling your cannula or return to the **Home** screen to avoid continued insulin delivery suspension. Failing to do this can result in hyperglycemia.

To fill the cannula:

1. After you fill your tubing and insert your infusion set, the **Fill Cannula?** screen appears.



Note: If your screen turns off before you are ready to fill your cannula, press any button on your pump to turn it on again.

2. To fill your cannula now, select **Fill**. If you use a steel needle infusion set, there is no cannula to fill. Select **Done**.

The **Fill Cannula** screen appears.



- Adjust the Fill amount for your particular infusion set, and then select **Fill Now**. If you are unsure about the fill amount, see the instructions that came with your infusion set.
- As the cannula fills, your screen displays the amount of units being delivered. The pump beeps or vibrates when the delivery is complete.
After the cannula is filled, the Home screen appears. Your pump is now ready to deliver insulin.

To stop filling the cannula:

- Select **Stop Filling** to stop filling the cannula.



- Select **Yes**.
The Fill Stopped screen appears and shows amount delivered.
- Select **Done**.

Disconnecting your infusion set

Always refer to your infusion set user guide for instructions on how to disconnect your infusion set.

Reconnecting your infusion set

Always refer to your infusion set user guide for instructions on how to reconnect your infusion set.

6



Meter



Meter

The MiniMed 740G insulin pump with smart device connectivity can only pair with an Accu-Chek Guide Link meter to receive remote BG readings. If you do not pair an Accu-Chek Guide Link meter with your pump, you must enter your BG readings manually. To pair your pump and meter, you need the following items:

- MiniMed 740G insulin pump with smart device connectivity
- Accu-Chek Guide Link meter



Note: The Accu-Chek Guide Link meter may not be available in all countries. It is recommended to use an ISO 15197 compliant BG meter, where available. Please consult a healthcare professional to discuss options.

About your Accu-Chek Guide Link meter

You can set up your pump to automatically receive BG readings from your Accu-Chek Guide Link meter. When the pump is on the Home screen, it beeps or vibrates when it receives a BG reading from the meter. The BG Meter screen appears. You can view your current BG reading and, if necessary, deliver a bolus. Your BG values appear on your pump screen for 12 minutes, as well as any insulin that is still active from any previous boluses. If your BG reading is outside the range of 3.9 to 13.9 mmol/L, an alert appears. Treat your low BG or high BG as directed by your healthcare professional.



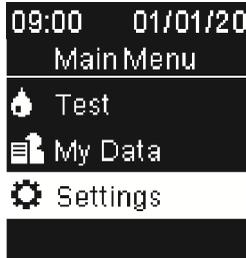
Note: You can pair up to four Accu-Chek Guide Link meters to your pump.

Pairing your pump and meter

The MiniMed 740G insulin pump can be paired with the Accu-Chek Guide Link meter. The pump automatically receives BG readings from a paired Accu-Chek Guide Link meter.

To prepare the meter to pair with the pump:

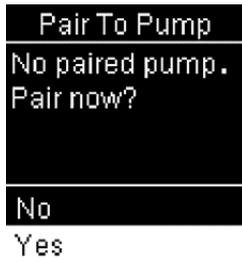
1. Press the **OK** button on the meter to turn on the meter.
2. Select **Settings**.



3. Select **Wireless**.



4. Select **Yes** if the confirmation screen appears on the meter screen. Or, select **Pairing** if the confirmation screen does not appear.



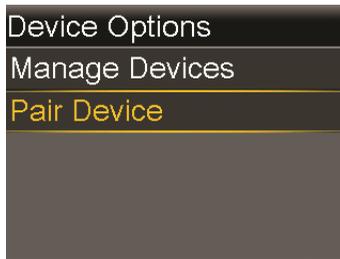
The serial number of the meter appears on the meter screen. The meter is now ready to pair with the pump.

To prepare the pump to pair with the meter:

1. Press  and go to the Device Options screen.

Menu > Utilities > Device Options

2. Select **Pair Device**.



The New Device screen appears.

3. Select **Search**.



The Select Device screen appears with a list of available devices.

4. Select the meter that matches the serial number on the meter screen.



5. Ensure the serial numbers shown on the pump and meter screens match, and then select **Confirm**.



If the connection is successful, a "Pairing successful!" message appears on the pump. A "Paired with pump" message with the serial number of the pump appears on the meter screen.

Deleting a meter from your pump

Follow this procedure to delete your Accu-Chek Guide Link meter from the pump.

To delete the meter from the pump:

1. Press  and go to the Manage Devices screen.
Menu > Utilities > Device Options > Manage Devices
The Manage Devices screen appears.
2. Select the serial number of the meter you want to delete. The Accu-Chek Guide Link meter serial number is located on the back of the meter.
3. Select **Delete**. A screen appears and tells you to confirm.
4. Select **Yes** to confirm or **No** to cancel.

Deleting your pump from a meter

For steps to delete the pump from a meter, see the Accu-Chek Guide Link User's Manual.



Meter



History and events



7 History and events

This chapter describes the History and Event Markers features. The History screens provide details about your personal therapy with your pump, including information about your insulin deliveries, BG meter readings, SG readings, and any alarms and alerts you received. You can enter and save information, such as manual BG readings, carbohydrates eaten, and exercise with the Event Markers feature.

You can view updates on the Daily History screen to learn information about your therapy with your pump over a period of time.

History

The History feature includes the Summary, Daily History, and Alarm History screens. The SG Review and ISIG History screens are available if you use the Sensor feature.

Summary screen

The Summary screen shows details about past insulin deliveries and meter readings. If you use a sensor, the Summary screen also shows information about your sensor alerts and SG readings.

You can view historical details for a single day. You can select multiple days to view an average of all the results for the number of days that you selected.

To view your Summary screen:

1. Press  and go to the Summary screen.

Menu > History > Summary

2. Select the time period for the Summary screen.
The Summary screen appears and shows the information for the number of days that you selected.
3. You can scroll down to view the entire screen. If you use the 1 Day view, you can use the < and > buttons on your pump to view the results for each day in history.

Understanding the Summary screen

The Summary screen separates information into the following categories:

- Overview
- Bolus
- BG meter
- Sensor
- SmartGuard

Summary screen: overview

The following table describes the overview portion of the Summary screen.



Note: If you view a single day of Summary results, then the values shown are the actual results for the selected day. If you view more than one day of Summary results, then the value is an average of the days that you selected.

Name	Description
TDD	Total daily dose of insulin units.
Basal	<ul style="list-style-type: none"> • Insulin units devoted to basal insulin delivery. • Percentage of insulin devoted to basal insulin delivery.
Bolus	<ul style="list-style-type: none"> • Insulin units devoted to bolus delivery. • Percentage of insulin devoted to bolus delivery.
Total Carbs	Daily carbohydrate amount, in grams or exchanges.

Summary screen: bolus

The following table describes the bolus portion of the Summary screen:



Note: If you view a single day of Summary results, then the values shown are the actual results for the selected day. If you view more than one day of Summary results, then the value is an average of the days that you selected.

Name	Description
Carb bolus only	<ul style="list-style-type: none"> Total insulin units delivered using the Bolus Wizard feature with food bolus amount only. Number of times the Bolus Wizard feature delivered a food bolus only.
BG Correction Only	<ul style="list-style-type: none"> Total insulin units delivered using the Bolus Wizard feature with BG correction amount only. Number of times the Bolus Wizard feature delivered a BG correction bolus only.
Carb bolus + BG Correction	<ul style="list-style-type: none"> Total insulin units delivered using the Bolus Wizard feature with food and BG correction amount. Number of times the Bolus Wizard feature delivered a carb and BG correction bolus.
Manual Bolus	<ul style="list-style-type: none"> Total bolus insulin units delivered using the Manual Bolus, Preset Bolus, or Easy Bolus features. Number of boluses delivered using the Manual Bolus, Preset Bolus, or Easy Bolus features.

Summary screen: BG meter

The following table describes the BG meter portion of the Summary screen:

Name	Description
BG	Total number of BG meter readings, including readings from an Accu-Chek Guide Link meter and BG meter readings entered manually.
Average BG	Average BG meter readings.
Meter Low	Lowest BG meter reading received from an Accu-Chek Guide Link meter.

Name	Description
Meter High	Highest BG meter reading received from an Accu-Chek Guide Link meter.
Manual Low	Lowest BG meter reading entered manually.
Manual High	Highest BG meter reading entered manually.

Summary screen: sensor

The following table describes the sensor portion of the Summary screen. If the sensor feature has never been turned on, this portion of the screen does not appear. If the sensor feature was turned on at least once, but is currently turned off, this portion of the screen appears gray.

Name	Description
SG Average	Average SG value.
SG Std. Dev.	Standard deviation of the SG readings.
Above High Limit	Percentage of SG readings that were above your high glucose alert limit. If you have not set a high glucose alert limit, your pump uses the default values. For more details on setting your high glucose alert limit, see <i>High SG settings, on page 164</i> .
Within Limits	Percentage of SG readings that were between your high and low glucose alert limits. If you have not set your high and low glucose alert limits, your pump uses the default values. For more details on setting your high and low glucose alert limits, see <i>High SG settings, on page 164</i> and <i>Low SG settings, on page 165</i> .
Below Low Limit	Percentage of SG readings that were below your low glucose alert limit. If you have not set a low glucose alert limit, your pump uses the default values. For more details on setting your low glucose alert limit, see <i>Low SG settings, on page 165</i> .
Alert before high	Number of Alert before high alerts that occurred.
Alert on high	Number of Alert on high alerts that occurred.
Rise Alert	Number of Rise alerts that occurred.
Alert before low	Number of Alert before low alerts that occurred.

Name	Description
Alert on low	Number of Alert on low alerts that occurred.
# SG readings	Total number of SG readings.

Summary screen: SmartGuard

The following table describes the SmartGuard portion of the Summary screen. For details on the SmartGuard feature, see *SmartGuard Technology, on page 160*.

Name	Description
Suspend before low	The average number of Suspend before low events per day.
Suspend on low	The average number of Suspend on low events per day.
Time suspended by sensor	The average duration (amount of time) suspended as a result of Suspend on low or Suspend before low events per day.
# SG readings	Number of SG readings per day.

Daily History

The Daily History screen displays a list of actions you performed on your pump or event entries that you made for the selected day, such as your BG meter readings, sensor calibrations, bolus deliveries, any temp basal rates you have used, and so on. The list displays the most recent action or event first. From this list, you can display further details about any action or event.

To view your Daily History:

1. Press  and go to the Daily History screen.
Menu > History > Daily History
A list of dates appears.
2. Select a specific date of history to view. A list appears with any pump actions or events entered on the specified day.
3. You can select any item in the list to open the Detail screen, which displays more information about the selected action or event. For example, if you view the details of a bolus delivered using the Bolus Wizard feature, the Detail screen shows you all of the data associated with that bolus, such as the BG correction amount, active insulin adjustment, carbs entered, and calculated bolus.

Alarm History

The Alarm History screen displays a list of alarms and alerts that occurred on the selected day. The list displays the most recent alarm or alert first. From this list, you can display further details about any alarm or alert.

To view your Alarm History:

1. Press  and go to the Alarm History screen.
Menu > History > Alarm History
A list of dates appears.
2. Select a specific date of alarm history to view. A list appears showing any alarms or alerts that occurred on the specified day.
3. You can select any alarm or alert in the list to open the Alarm Detail screen, which displays more information about the selected alarm or alert.

Sensor Glucose Review

The Sensor Glucose Review feature is available if you use the Sensor feature.

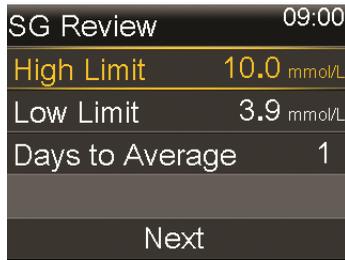
The Sensor Glucose Review feature lets you view a graph of your SG history, based on high and low limits you enter. You can view information for one day, or view an average of your SG data over a number of days.



Note: The high and low limits that you set in the SG Review screen are only used to view your SG data. These limits are not the same as the high and low glucose limits used for your sensor alerts. Changing your limits in the SG Review screen does not affect the high and low glucose limits used for your sensor alerts.

To review your SG history:

1. Press  and go to the SG Review screen.
Menu > History > Sensor Glucose Review
The SG Review screen appears. The high and low limits that appear are either the values you entered for the last SG Review, or the default values of 10 mmol/L for the High Limit and 3.9 mmol/L for the Low Limit.



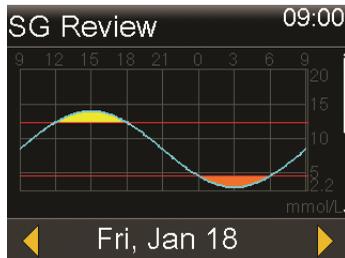
- Enter the High Limit and Low Limit that you want to use to view your SG data.

There must be a minimum of 1.1 mmol/L difference between the High Limit and the Low Limit.

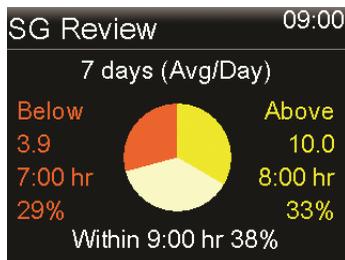
- Enter the number of days of SG history to average, and select **Next**.

A graph of your SG data appears. If you specified one day of history to view, the graph shows details about when your SG was above, below, or within your specified limits. You can scroll down to view the number of hours and percentage of time you were above, within, and below your SG limits.

If you have no data saved, a message appears to notify you that there is no data available.



If you view information for multiple days, the graph shows the average percentage of time that your SG was above, below, or within your specific limits.



ISIG History

ISIG is an electronic reading from your sensor that is used in conjunction with your calibration numbers to calculate the current glucose reading on your pump.

To review your ISIG History:

1. Press  and go to the ISIG History screen.

Menu > History > ISIG History

The ISIG History screen displays an hourly sequence for one 24-hour day.

2. Scroll through the list to highlight an hour, then press  to select it.

Use the  or  buttons to scroll through the listing of ISIG readings, which occur every five minutes.

Event Markers

The Event Markers feature lets you electronically save certain types of information.

When using this feature, enter events when they happen because the system records the time of the entry. You cannot edit entries after you enter the information into your pump. You can view your saved events in the Daily History screen.

The information you entered can be sent to CareLink Personal software, where it can be used to generate reports you can share with your healthcare professional.

To enter Event Markers:

1. Press  and go to the Event Markers screen.

Menu > Event Markers

2. Select and enter event information for any of the following categories:

BG



If you are not recording your BG meter readings in your pump by entering them manually or by using the Bolus Wizard feature or an Accu-Chek Guide Link meter, you can enter them in this screen. If you use a sensor, you may use a BG meter reading you enter in this screen for calibration. You can also enter non-calibration BG meter readings, such as those readings taken when eating or when your BG is rising or falling rapidly.

Injection  Enter the number of units of any insulin you have given by injection.



Note: Insulin units entered using the injection event marker are not added to your Active Insulin amount tracked on the pump.

Food  Enter the amount of carbohydrates that you have eaten or drunk that have not been entered in the Bolus Wizard feature. For example, you might enter carbs that you ate to correct a low BG.

Do not use this screen to enter carbs that you have already entered in the Bolus Wizard feature.

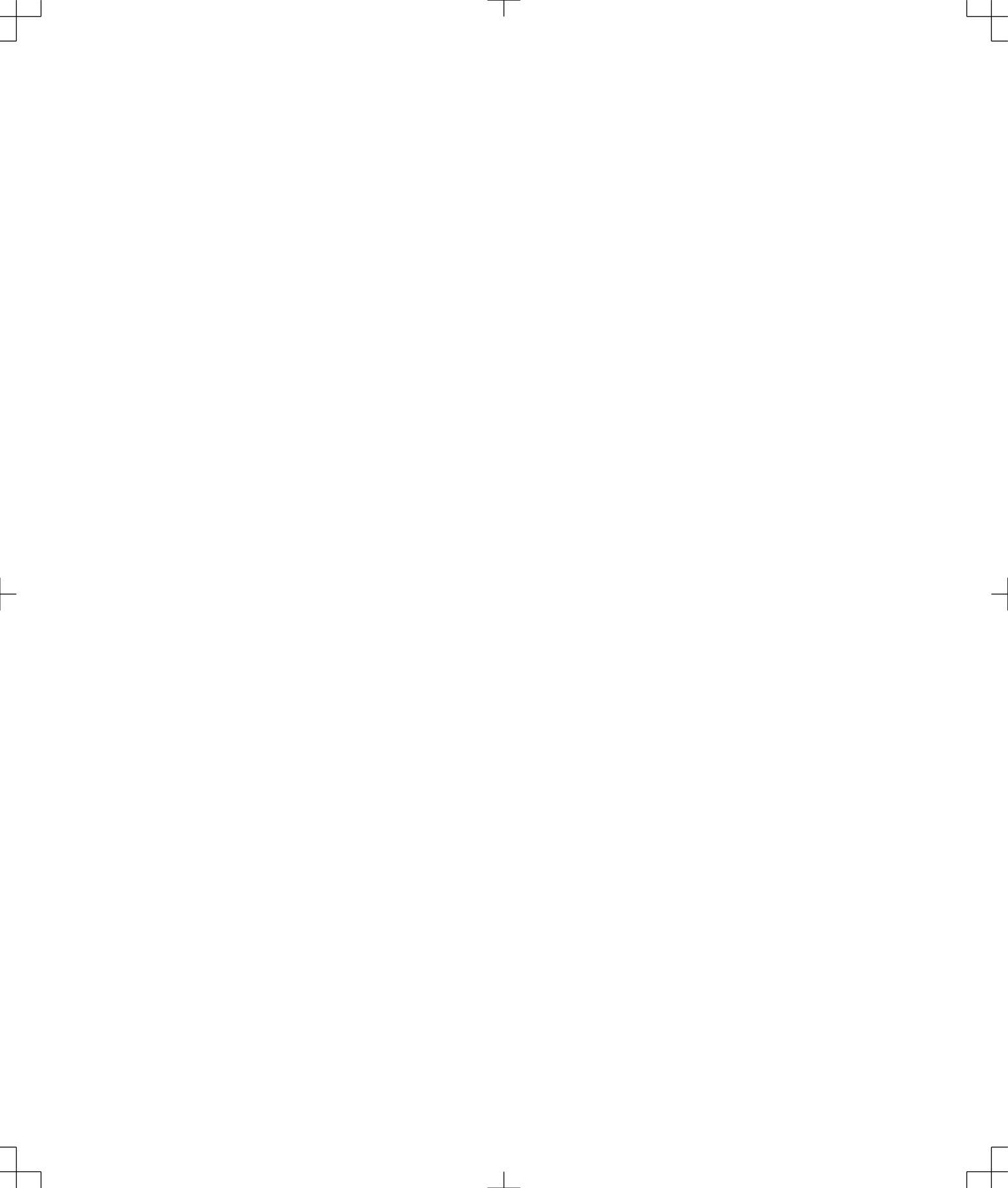
Exercise  Enter the length of time you exercised. It is helpful to be consistent and enter the information either before or after each time you exercise.

Other  Examples of Other event markers can include when you take medications, when you feel ill, or when you are under stress.

8



Reminders



8 Reminders

Reminders help you remember to do important routine activities. There are specific reminders that prompt you to check your BG after a bolus, give a food bolus, check your reservoir level, and change your infusion set. There are also personal reminders you can use for any purpose. If you have the sensor feature turned on, the calibration reminder prompts you to calibrate your sensor.

Personal reminders

The Personal reminders include six numbered reminders, along with the specific reminders for BG Check and Medication.

To create a new Personal reminder:

1. Press  and go to the Personal screen.
Menu > Reminders > Personal
2. Select **Add New**.
The Select Name screen shows the available reminders.
3. Select the reminder that you want to set.
The Edit screen appears for the selected reminder.
4. Enter the time that you want the reminder to occur.
5. Select **Save**. The Personal reminder occurs at the specified time each day unless you change or delete it.

To edit, rename, or delete an existing Personal reminder:

1. Press  and go to the Personal screen.

Menu > Reminders > Personal

2. Select the reminder you want to change.
3. Do any of the following:
 - Select **Reminder** to turn the reminder on or off.
 - Select **Edit** to change the time of the reminder.
 - Select **Rename** to assign a different name to the reminder. When the Select Name screen appears, select any available name from the list.
 - Select **Delete** to delete the reminder.

Bolus BG Check reminder

The Bolus BG Check reminder tells you to check your BG after a bolus. After you start a bolus, the BG Check screen appears and lets you set a reminder to check your BG. The timer counts down from the time the bolus started.

To turn on or turn off Bolus BG Check reminders:

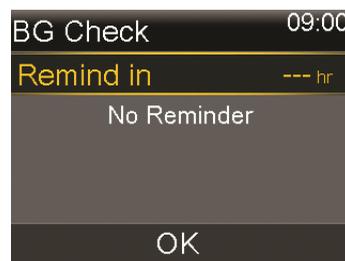
1. Press  and go to the BG Check screen.

Menu > Reminders > Bolus BG Check

2. To turn the reminder on or off, select **Reminder**.
3. Select **Save**.

To use a Bolus BG Check reminder when delivering a bolus:

1. After you turn on the Bolus BG Check reminder, each time you start a bolus, the following screen appears:



2. Enter a time from 30 minutes to 5 hours, in 30-minute increments. Select **OK**. If you do not want a reminder after the bolus delivery, select the dashes without adding a time, and then select **OK**. If needed, press \checkmark to return to the dashes.

Missed Meal Bolus reminder

The Missed Meal Bolus reminder tells you if a bolus is not delivered within a time period that you set. Set time periods around your typical meal times to help ensure a meal bolus is not missed. You can set up to eight Missed Meal Bolus reminders.

To create a new Missed Meal Bolus reminder:

1. Press \diamond and go to the Missed Meal Bolus screen.
Menu > Reminders > Missed Meal Bolus
2. Select **Add New**.
3. Select **Start Time** and enter a time.
4. Select **End Time** and enter a time. The time range is from one minute to 24 hours.
5. Select **Save**.

To turn on or off, edit, or delete existing Missed Meal Bolus reminders:

1. Press \diamond and go to the Missed Meal Bolus screen.
Menu > Reminders > Missed Meal Bolus
2. Select the reminder you want to change.
3. Change any of the following:
 - Select **Reminder** to turn this reminder on or off.
 - Select **Edit** to change the time of this reminder.
 - Select **Delete** to delete this reminder.

Low Reservoir reminder

The Low Reservoir reminder notifies you when the insulin level in your reservoir is low. Program your pump to generate a reminder before your reservoir is empty. You can select one of the following types of Low Reservoir reminders:

- **Units** – tells you when your reservoir has a specified number of units remaining, and then tells you again when half of remaining units are used.
- **Time** – tells you when there is a specified amount of time remaining before your reservoir is empty and then again one hour before insulin runs out, depending on your programmed basal insulin delivery.



Note: The amount of time or units remaining in your reservoir can be found on the Quick Status screen. For more information on accessing the Status screens, see *Viewing the Status screens, on page 41*.

If you use Time for your Low Reservoir reminder, be aware that the reminder time is based only on your basal insulin delivery rate. If you give a bolus, the time remaining will decrease more quickly.

For example, if your reservoir has 10 hours remaining when you go to bed at night, and you sleep for eight hours without giving any bolus insulin, you will still have two hours of basal insulin remaining when you wake up. In contrast, suppose your reservoir has 10 hours remaining when you leave the house for work in the morning. If you give boluses to cover your mid-morning snack and your lunch, the number of hours remaining decreases accordingly, and your insulin will run out before you end your eight-hour work day.



WARNING: When the pump detects a low reservoir condition during a bolus or fill cannula delivery, the Low reservoir alert displays. When delivery has finished, check the amount left in the reservoir to make sure your pump does not run out of insulin, as this could lead to an under delivery of insulin, which may cause hyperglycemia.

Low Reservoir reminder setup:

1. Press  and go to the Low Reservoir screen.
Menu > Reminders > Low Reservoir
2. Select **Type** to set the reminder using either **Units** or **Time**.
3. Depending on the type you selected, do one of the following:

- Select **Units** to enter the number of units. Set a value from 5 units to 50 units.
- Select **Time** to enter the number of hours you want to use for your reminder. You can enter from 2 to 24 hours.

4. Select **Save**.

Set Change reminder

The Set Change reminder tells you when your infusion set is due to be changed. After you turn on this reminder, it automatically tracks the time between infusion set changes and reminds you to change your infusion set.

To turn on or off, or change the Set Change reminder:

1. Press  and go to the Set Change screen.
Menu > Reminders > Set Change
2. Select **Reminder** to turn the reminder on or off. If you turn on the reminder, select **Time** and choose two or three days for the reminder.
3. Select **Save**.

Calibration reminder

The Calibration reminder is available if you use the Sensor feature. This feature helps you remember to calibrate your sensor. For example, if you set your reminder to four hours, you receive a Calibrate by message four hours before the next BG meter reading is due.

To turn on or off, or change the Calibration reminder:

1. Go to the Calibration screen.
Menu > Reminders > Calibration



2. Select **Reminder** to turn the reminder on or off.
3. If you turn on the reminder, select **Time** and enter a time between five minutes and six hours. The time can be set in five-minute increments.
4. Select **Save**.

9



9 General settings

This chapter provides information about common tasks for various settings.

Audio Options

The audio and vibrate options are set in the Audio Options screen. You can also change the volume of most alerts and notifications if audio is enabled.

An audio icon appears on the status bar. An audio icon indicates if your current settings are audio only , vibrate only , or audio and vibrate both . For more information, see *Status bar, on page 35*.

To adjust the audio and vibrate settings:

1. Press  and go to the Audio Options screen.
Menu > Audio Options
2. Select **Audio**, **Audio & Vibrate**, or **Vibrate** to turn on the setting you want to use.
3. If the Audio option is enabled, the volume can be changed. Select **Volume** and press < or > to adjust to the desired level.
4. Select **Save**.

Auto Suspend

Auto Suspend is a safety feature that stops all insulin delivery and sounds an alarm if you do not press any buttons for a specified period of time. For example, your healthcare professional may have you set the time based on the number of hours that you typically sleep at night. Discuss with your healthcare professional how to best use this feature.

To set up Auto Suspend:

1. Press  and go to the Auto Suspend screen.
Menu > Insulin Settings > Auto Suspend
2. Select **Alarm**.
3. Select **Time** and enter the number of hours you want to set.
4. Select **Save**.

Block Mode

The Block Mode feature lets caregivers, such as parents of a young child, restrict access to critical pump settings.



WARNING: Always monitor the pump when it is used in Block Mode. You can manually suspend while in Block Mode. This could result in hyperglycemia and ketoacidosis.

When Block Mode is on, you cannot start a new bolus delivery, start a new basal pattern, or start a new temp basal delivery. Any previous bolus and basal deliveries continue normally, and the pump user can stop a bolus delivery at any time.

When your pump is in Block Mode, you can suspend insulin delivery, receive SG values, receive BG values from your Accu-Chek Guide Link meter, review history, test the pump, and clear alarms and alerts. However, you cannot change any settings.

To turn Block Mode on or off:

1. Press  and go to the Block Mode screen.
Menu > Utilities > Block

2. Select **Block Mode** to turn the feature on or off.
3. Select **Save**. While Block Mode is turned on, a lock icon  appears on the status bar.

Carb Unit

The Carb Unit setting determines whether to enter and display carbohydrates in grams (g) or exchanges (exch). You enter carbohydrate information when using the Bolus Wizard feature and recording food in Event Markers.

To change the Carb Unit setting:

1. Press  and go to the Carb Unit screen.
Menu > Utilities > Carb Unit
2. Select either **Grams** or **Exchanges**.
3. Select **Save**.

Display Options

In the Display Options screen, you can increase or decrease the brightness of your screen. You can also adjust the amount of time the backlight stays on after you press a button.

To adjust the display options:

1. Press  and go to the Display Options screen.
Menu > Utilities > Display Options
2. Select **Brightness** to adjust the brightness of your screen. You can set a level from 1 to 5, or select **Auto** to have the screen automatically adjust to your current environment.



Note: The brightness setting you select can affect the life of your battery. Use a lower level setting to preserve battery life.

3. Select **Backlight** to adjust the timeout for the backlight on your pump screen. You can select 15 seconds, 30 seconds, 1 minute, or 3 minutes.



Note: The backlight can affect the life of your battery. Set the screen timeout to 15 or 30 seconds to preserve battery life.

4. Select **Save**.

Language

You can change the language that your pump uses to display information.

To change the Language setting:

1. Press  and go to the Language screen.
Menu > Utilities > Language
A checkmark indicates which language is active.
2. Select your desired language.
3. Select **Yes** when the confirmation message appears.

Managing your pump settings

The Manage Settings feature lets you save, restore, or clear your settings.

The following table describes the Manage Settings options:

Option	Description
Save Settings	The Save Settings option records your current settings that you can use if a future event requires you to re-enter your settings.
Restore Settings	The Restore Settings option lets you restore your settings with the backup settings that you saved using the Save Settings feature.
Clear All Settings	The Clear All Settings option erases your settings and returns them to the factory defaults. To use your pump again after you clear all settings, you may use Restore Settings or manually re-enter your settings. This option enables you to restore a previous version of your settings or enter your settings again.

Option	Description
Clear Active Insulin	This option appears only if you have never cleared your active insulin. Use this option when you are ready to use your pump with insulin for the first time or when directed by your healthcare professional. You can only clear your active insulin once.
Settings History	The Settings History option shows a history of recent activities that relate to managing your settings, such as when you saved, cleared, or restored your settings.

Saving your settings

Save a record of your settings to restore your settings at a later date, if necessary.

To save your current settings:

1. Press  and go to the Manage Settings screen.
Menu > Utilities > Manage Settings
2. Simultaneously press and hold  and  until the Manage Settings screen appears.
3. Select **Save Settings**.

If these are the first settings you have saved, a message appears to confirm that your settings are saved.

If you have previously saved settings, a message appears to ask if you would like to replace your previous settings with your current settings. Select **Yes** to accept. Select **No** to cancel.

Restoring your settings

The Restore Settings option replaces your current pump settings with the last settings that you have saved. The Restore Settings menu option is available only if you have previously saved your settings.

To restore your previous settings:

1. Press  and go to the Manage Settings screen.
Menu > Utilities > Manage Settings

2. Simultaneously press and hold > and ← until the Manage Settings screen appears.
3. Select **Restore Settings**.
4. To replace your current settings with your previous settings, select **Yes**. To cancel, select **No**.

Clearing your settings

The Clear All Settings option erases your current settings and returns them to the factory defaults. After you clear your settings, your pump displays the Startup Wizard, where you re-enter your pump settings. You must re-enter your settings to continue using your pump.

The Clear All Settings option does not delete paired devices, such as your transmitter or meter.



CAUTION: Do not clear your pump settings unless directed by your healthcare professional. If you clear your pump settings, it will be necessary to reprogram all your personal pump settings as directed by your healthcare professional.

To clear all your settings:

1. Make sure the pump is not connected to your body.
2. Press ❖ and go to the Manage Settings screen.
Menu > Utilities > Manage Settings
3. Simultaneously press and hold > and ← until the Manage Settings screen appears.
4. Select **Clear All Settings**.
A screen appears and tells you to confirm.
5. To continue clearing your settings, select **Yes**. If you do not want to clear your settings, select **No**.

If you clear your settings, your pump displays the Welcome screen and continues to the Startup Wizard. For more details on entering your startup settings, see *Entering your startup settings, on page 31*.

Clearing your active insulin

Use the Clear Active Insulin option when you are ready to use your pump with insulin for the first time. This feature clears any active insulin values that your pump has tracked and then sets the active insulin value to zero. If you have practiced delivering a bolus with your pump prior to using your pump with insulin, you must clear the active insulin. This ensures that the Bolus Wizard feature has an accurate active insulin amount for bolus calculations.

You can clear your active insulin only once. After you clear your active insulin, the feature is no longer available.

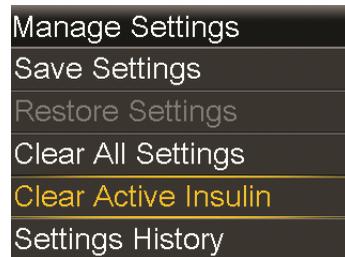
To clear your active insulin:

1. Press  and go to the Manage Settings screen.

Menu > Utilities > Manage Settings

2. Simultaneously press and hold  and  until the Manage Settings screen appears.

The Manage Settings screen appears. If you have never cleared your active insulin, the Clear Active Insulin option appears.



Note: If the Clear Active Insulin selection does not appear on the Manage Settings screen, it means that you have already cleared your active insulin on the pump.

3. Select **Clear Active Insulin**.
A screen appears and tells you to confirm.
4. Select **Clear** to clear your active insulin value from your pump. If you do not want to clear your active insulin at this time, select **Cancel**.
A message appears to confirm that your active insulin value is cleared.

Viewing your pump setting history

The Settings History shows you a history of activities you have performed in the Manage Settings area, such as when you saved, restored, or cleared your settings.

1. Press  and go to the Manage Settings screen.
Menu > Utilities > Manage Settings
2. Simultaneously press and hold  and  until the Manage Settings screen appears.
3. Select **Settings History**.
The Settings History screen appears.

Upload to CareLink software

Upload system data to CareLink software with the MiniMed Mobile app or the Blue Adapter.

The following steps are instructions to upload system data to CareLink software with the Blue Adapter. Refer to the MiniMed Mobile app user guide for instructions to upload system data to CareLink software with the app.

To upload to CareLink software with the Blue Adapter:

1. Press  and go to the CareLink screen.
Menu > Utilities > CareLink
2. Follow the instructions on the CareLink uploader.
3. The CareLink uploader tells you to enter a pump code if the pump is new to the CareLink account. Enter the **Pump Code** from the CareLink screen on the pump.
4. Select **Next** on the CareLink uploader.
5. Select **Upload Now** on the pump screen.

Self Test

Self Test is a safety utility that lets you check if your pump is operating properly. This self-diagnostic feature can be used for maintenance or to check that your pump is operating properly. Self Test is additional to the routine tests that run independently while the pump operates.



Note: Your insulin delivery suspends for up to two minutes while your pump runs a self test.

Self Test includes the following tests:

Test	Description
Display	The display turns on for up to 45 seconds.
Notification light	The notification light turns on for three seconds, and then turns it off.
Vibration	Two vibration tones are generated.
Tone	An alert tone, an Easy Bolus step tone, and an alarm tone are generated.

The pump performs a series of tests as listed in the previous table. Self Test requires you to observe the pump during the test.

To run the Self Test:

1. Press  and go to the Self Test screen.

Menu > Utilities > Self Test

A message indicates that the Self Test is in progress.

Self Test takes up to two minutes to complete. During that time, the display briefly turns white, the notification light blinks, the pump vibrates, and the pump beeps.

2. If Self Test does not detect a problem, the display returns to the Utilities screen.

If Self Test detects a problem, a message appears with more information about the problem. If Self Test displays an error message or you observe the pump not behaving as indicated during the test, contact your local Medtronic support representative.

Sensor Demo

Sensor Demo lets you see what the Home screen would look like if you were using the optional CGM feature. For more information about sensor graphs, see *The sensor graph*, on page 195.



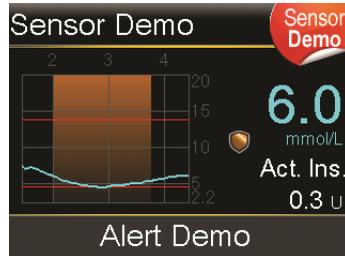
WARNING: Do not use Sensor Demo to make any decisions related to your therapy. Information seen in the Sensor Demo is not real data. It is an example of the type of information you can access when using the sensor feature. Making treatment decisions based on data that is not real can cause hypoglycemia or hyperglycemia.

To view the sensor graph example screens:

1. Press  and go to the Sensor Demo screen.

Menu > Utilities > Sensor Demo

The Sensor Demo screen appears as an example of what your Home screen looks like when you are using the optional CGM feature.



2. Press  to access the sensor graph examples.
3. From the sensor screen example you can:
 - Press the < or > buttons to move the cursor across the graph. Examples of sensor data appear for the different time periods.
 - Press the ^ or v buttons to view graphs that cover different time periods. You can view 3-hour, 6-hour, 12-hour, and 24-hour graphs.

Sensor Demo simulates a sensor glucose graph, showing an example of the general trend of glucose as it rises and falls over time. The top of the graph indicates the time of day, while the side bar shows the sensor glucose (SG) reading markers.

4. To exit Sensor Demo, press .

To see and hear examples of sensor-related alerts:

1. Press  and go to the Sensor Demo screen.

Menu > Utilities > Sensor Demo

2. Select **Alert Demo**.
3. To see and hear sensor-related alerts, select any of the listed alerts.
4. To exit an alert example, press \surd , then select **OK** to clear the alert. To exit Sensor Demo, press \leftarrow .

Time and date

Make sure the time and date are always set correctly on your pump. This is necessary to ensure the correct basal insulin delivery and to keep an accurate record of pump functions. You may need to change the time or the date if you travel to a different time zone or practice daylight saving time. After the time and date are changed, the pump adjusts all settings automatically.

To change the time and the date:

1. Press \diamond and go to the Time & Date screen.

Menu > Utilities > Time & Date

2. Select and change the **Time**, **Time Format**, or **Date** as necessary. If you are using a 12-hour clock, be sure to specify AM or PM.
3. Select **Save**.

10

Setting up CGM



10

Setting up CGM

This chapter explains how to pair your pump and transmitter, enter your sensor settings, and set up CGM on your pump. You need the following:

- MiniMed 740G insulin pump
- SG settings (provided by your healthcare professional)
- Guardian Sensor (3)
- Guardian Link (3) transmitter with Bluetooth wireless technology kit



WARNING: Do not make therapy treatment decisions based on SG values. SG and BG values may differ. If your SG reading is low or high, or if you feel symptoms of low or high glucose, confirm your SG reading with your BG meter prior to making therapy decisions to avoid hypoglycemia or hyperglycemia.

Understanding CGM

The Sensor feature on the pump lets you integrate and use CGM. CGM is an SG monitoring tool that uses a glucose sensor that is placed below your skin to continuously measure the amount of glucose in your interstitial fluid. CGM helps you better manage your diabetes in the following ways:

- It records your glucose values throughout the day and night.
- It shows the effects that your diet, exercise, and medication can have on your glucose levels.
- It gives you additional tools to help you prevent high and low glucose levels.



Note: If you lose sensor functionality, you will no longer have access to CGM features. For details on restoring sensor functionality, see *Troubleshooting sensor issues, on page 243*.

SG readings and BG meter readings are not the same.

SmartGuard Technology

SmartGuard is a feature that can automatically stop and resume insulin delivery based on your SG values and low limit. Your low limit should be set based on recommendations from your healthcare professional. When a SmartGuard suspend event occurs, basal insulin delivery automatically resumes if your SG values are rising and have met the specified criteria, or if the maximum suspend time of two hours is reached.

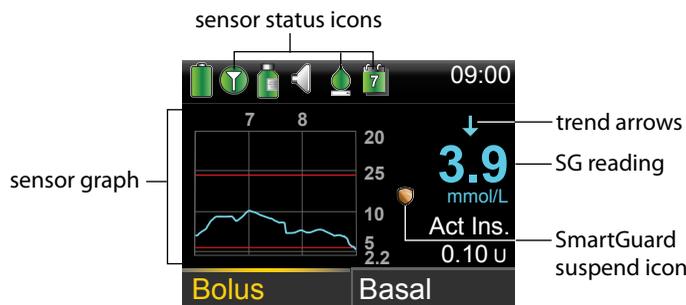
The following table lists SmartGuard features and where to find them.

To learn more about:	Go to this section:
How to use SmartGuard technology to automatically suspend your insulin delivery before you reach your low limit.	<i>SmartGuard Suspend before low, on page 166.</i>
How to use SmartGuard technology to automatically suspend your insulin delivery when you reach your low limit.	<i>SmartGuard Suspend on low, on page 169.</i>
How SmartGuard technology automatically resumes your basal insulin delivery after a SmartGuard suspend event.	<i>Automatically resuming basal insulin delivery after a SmartGuard suspend event, on page 172.</i>

To set up the SmartGuard suspend features, see *Setting up the low SG settings, on page 180*.

Home screen with CGM

When you turn on the Sensor feature, the Home screen on your pump changes to display a real-time graph that shows your SG information. For more information, see *Turning on the Sensor feature, on page 176*.



The following items appear on your Home screen with CGM:

Item	Description
Calibration icon	The calibration icon indicates the approximate time left until your next sensor calibration is due. The calibration icon appears only when the Sensor feature is turned on. The color and the fill level of the icon indicate the status of calibration. When your sensor is fully calibrated, the icon is solid green. As the time for your next sensor calibration approaches, the icon becomes emptier, and the color of the icon changes as shown in the following example. For more information about calibrating your sensor, see <i>Calibrating your sensor</i> , on page 188.
	When your sensor calibration has not completed, the calibration icon appears with three dots . This occurs when a new sensor is connected and also after a Calibration not accepted alert. If the time to your next sensor calibration is unavailable or when the sensor is calibrating, the calibration icon appears with a question mark .
Connection icon	The connection icon appears green when the Sensor feature is on and your transmitter is successfully communicating with your pump. The connection icon appears gray when the Sensor feature is turned on, but the transmitter is not connected or communication with your pump has been lost. For more information about the Sensor feature, see <i>Understanding CGM</i> , on page 159.

Item	Description
Sensor graph	The sensor graph shows your SG readings over a period of three hours. The red lines represent your high and low SG limits. The blue line represents your SG trends during the specified period. For more information, see <i>The sensor graph</i> , on page 195.
Sensor life icon	The number in the center of the sensor life icon indicates the number of days that remain until the sensor expires. The sensor life icon appears only when the Sensor feature is turned on. The color and the fill level of the icon indicate the status of sensor life. When you insert a new sensor, the icon is solid green. As your sensor life is used, the icon becomes emptier. The icon turns yellow when less than 24 hours remains in the life of your sensor. It turns red when less than 12 hours remains in the life of your sensor.
	
	If the number of days remaining in the life of your sensor is unavailable, the Sensor Life icon appears with a question mark  .
SG reading	The pump shows your current SG reading which is sent wirelessly to your pump by the transmitter.

Item	Description
SmartGuard suspend icon	<p>The SmartGuard suspend icon appears only when either the Suspend before low or Suspend on low feature is set to on. For details on SmartGuard technology, see <i>SmartGuard Technology, on page 160</i>.</p> <p>The SmartGuard suspend icon indicates the current status of the suspend features, as follows:</p> <ul style="list-style-type: none"> • The icon is solid gold  when either the Suspend on low or Suspend before low is turned on and ready. • The gold icon flashes if your insulin delivery is currently suspended due to a Suspend on low or Suspend before low event. • The icon appears gray with a line through it  when neither suspend feature is available. The suspend features might be unavailable due to a recent suspend or because there are no SG values available. It might also be unavailable because the pump is not currently delivering insulin.
Trend arrows	<p>The trend arrows indicate the rate at which the most recent SG level is rising or falling.</p> <ul style="list-style-type: none"> •  or  or  - Rising trend arrows •  or  or  - Falling trend arrows <p>For more information about trend arrows, see <i>Identifying rapid changes in SG, on page 196</i>.</p>

Understanding glucose settings

There are several types of glucose alerts you can set to tell you when your glucose values change at a particular rate, or when they approach or reach a specified low or high limit. You can also set your pump to automatically suspend insulin delivery before or when you reach your low limit.

The following graph shows the different high and low glucose alerts you can use.



🔔 SG alert and suspend settings

The high alerts are described in the *High SG settings* section on page 164. For details on low alerts and suspend options, see *Low SG settings*, on page 165.

High SG settings

These settings alert you:

- When your SG is rising rapidly (Rise Alert)
- When your SG is approaching your high limit (Alert before high)
- When your SG has reached your high limit (Alert on high)

The following graph shows the different high SG settings you can use:



🔔 High SG alert settings

The following table describes the high SG settings.

High glucose setting	Description
High limit	Your high limit is the value your other high SG settings are based on. Your high limit can be set from 5.6 to 22.2 mmol/L. You can set a different high limit for up to eight time segments throughout the day or night.

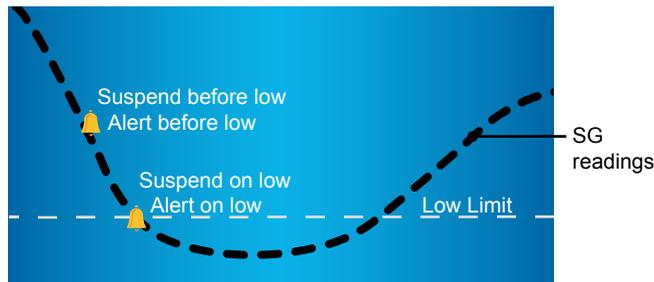
High glucose setting	Description
Alert before high	When Alert before high is on, the pump alert tells you any time the SG is predicted to reach the high limit. This makes you aware of potential highs before they occur.
Time before high	Time before high is only available when using Alert before high. Time before high determines when you will receive an Alert before high. You can set a time between 5 and 30 minutes.
Alert on high	When Alert on high is on, your system tells you when your SG reading reaches or exceeds your High Limit.
Rise Alert	<p>The Rise Alert tells you when your glucose is rising rapidly. This alert helps you understand how much your glucose levels are affected by meals or, for example, when forgetting to give a bolus. You can set the rise rate to match the arrows that display on the Home screen during a glucose rise, or to a custom rise rate.</p> <ul style="list-style-type: none"> •  - SG is rising at a rate of 0.06 mmol/L per minute or more. •  - SG is rising at a rate of 0.11 mmol/L per minute or more. •  - SG is rising at a rate of 0.17 mmol/L per minute or more. • Custom - SG is rising at the rate that you set which can be set from 0.050 to 0.275 mmol/L per minute.
Rise Limit	The Rise Limit determines when you will receive a Rise Alert. Rise Limit is only available when using Rise Alert.

To set up your high SG settings, see *Setting up the high SG settings, on page 176*.

Low SG settings

The low SG settings alert or suspend insulin delivery when you either approach or reach your low limit. For more information, see *SmartGuard Technology, on page 160*.

The following graph shows the different low SG settings you can use:



 Low SG alert and suspend settings



WARNING: Suspend before low and Suspend on low are not intended to be a treatment for low BG. Having insulin suspended when glucose is low may not bring your BG back to your target range for several hours. In that case, you run the risk of hypoglycemia. Always confirm your BG readings with your BG meter and treat according to the recommendations of your healthcare professional.

The following sections describe the SmartGuard feature and the low settings. For details on setting up the SmartGuard feature and your low settings, see *Setting up the low SG settings, on page 180*.

Low limit

The low limit is the value on which the other low SG settings are based. The low limit can be set from 2.8 to 5.0 mmol/L. You can set a different low limit for up to eight time segments throughout the day or night.

SmartGuard Suspend before low

The SmartGuard Suspend before low feature stops insulin delivery when your SG values are approaching your low limit. This feature is intended to suspend insulin delivery to minimize the amount of time spent with low BG values.

The default setting for the Suspend before low feature is off. Consult your healthcare professional for the Suspend before low setting that is best for you.

If you turn on Suspend before low, then Alert on low is automatically turned on. You also have the option to turn on Alert before low.

- If Alert before low is on, your pump tells you when insulin delivery is suspended. For details, see *Alert before low, on page 169*.
- If Alert before low is off, then Suspend before low appears on the screen, but the pump will not beep or vibrate when insulin delivery is suspended.
- The user can enable Alert before low, Alert on low, Suspend before low, and Suspend on low.
- Suspend before low and Suspend on low cannot be enabled at the same time. When either is enabled, the user can enable the Resume basal alert.



WARNING: Always confirm your SG readings with your BG meter and treat according to the recommendations of your healthcare professional. The Suspend before low feature uses the SG value, not your BG value, to automatically suspend insulin delivery. Your pump automatically suspends insulin delivery when your SG is approaching the low limit. However your BG reading may be higher or lower than the SG value. Assuming that your SG value is accurate may result in the delivery of too little or too much insulin, which can cause hyperglycemia or hypoglycemia.

Suspend before low conditions

When a Suspend before low event occurs, all insulin delivery is suspended. A Suspend before low event occurs in the following situations:

- Your SG value is at or within 3.9 mmol/L above your low limit.
- Your SG is predicted to reach or fall below a level that is 1.1 mmol/L above your low limit within approximately 30 minutes.

Responding to a Suspend before low event

When you clear the Suspend before low alert, the SmartGuard suspend icon  flashes and "Suspended before low" appears on your Home screen. If your SG reaches your low limit, an Alert on low occurs.

When a Suspend before low event occurs, insulin delivery will remain suspended for at least 30 minutes. Insulin delivery will be suspended for a maximum of two hours. You can manually resume basal insulin delivery at any time. For details, see

Manually resuming basal insulin delivery during a SmartGuard suspend event, on page 183. After the minimum 30-minute suspend time, basal insulin delivery will automatically resume if the following conditions are met:

- Your SG is at least 1.1 mmol/L above your low limit.
- Your SG is estimated to be more than 2.2 mmol/L above your low limit within 30 minutes.

If you do not respond to the Suspend before low alert, your pump resumes basal insulin delivery after two hours and displays a Basal delivery resumed alert.

When Suspend before low is unavailable

After a Suspend before low event occurs, there is a period of time when the Suspend before low functionality is unavailable. This is to prevent prolonged suspended basal delivery. The length of time it is unavailable will vary. You can manually suspend insulin delivery at any time. For details, see *Stopping and resuming your insulin delivery, on page 63.*



Note: The maximum amount of time the Suspend before low feature will be unavailable is four hours.

When the SmartGuard suspend features are unavailable, the SmartGuard suspend icon on the Home screen appears gray .

When a Suspend before low event occurs and you respond within two hours and:

- Stay suspended for the two-hour maximum suspend time, the SmartGuard suspend features will be unavailable for 30 minutes after your basal insulin delivery resumes.
- Your basal insulin delivery automatically resumes due to your rising SG levels, the SmartGuard suspend features will be unavailable for 30 minutes after your basal insulin delivery resumes.
- Manually resume your basal insulin delivery, the SmartGuard suspend features will be unavailable for 30 minutes after your basal insulin delivery resumes.

If your pump has been suspended for two hours and you have not responded, basal insulin delivery automatically resumes.

If you respond within 30 minutes of basal insulin delivery being resumed, the SmartGuard suspend features will be unavailable for a total of 30 minutes. For example:

- If you respond 10 minutes after your basal insulin delivery resumes, the SmartGuard suspend features will be unavailable for an additional 20 minutes.
- If you respond 20 minutes after your basal insulin delivery resumes, the SmartGuard suspend features will be unavailable for an additional 10 minutes.

If you respond 30 minutes to four hours after your basal insulin delivery resumes, the SmartGuard suspend features will be available immediately.

If you do not respond, the SmartGuard suspend features will be unavailable for four hours after basal insulin delivery resumes.

Alert before low

When Alert before low is on, you will receive an alert when you are approaching your low limit. This makes you aware of potential lows before they occur.

The Alert before low feature can be used with the Suspend before low and Suspend on low features. The Alert before low feature works as follows:

- If Alert before low is on, and both SmartGuard suspend features are off, you receive the Alert before low 30 minutes before you reach your low limit.
- If Suspend on low is on, and Alert before low is on, you receive an Alert before low 30 minutes before you reach your low limit.
- If Suspend before low is on, and Alert before low is on, you receive a Suspend before low alert when insulin delivery is suspended. For details, see *SmartGuard Suspend before low, on page 166*.

You can also choose to have the Alert before low off.

SmartGuard Suspend on low

The SmartGuard Suspend on low feature stops insulin delivery when your SG value reaches or falls below the low limit that you set. When a Suspend on low event occurs, all insulin delivery is suspended. This feature is used for situations when you cannot respond to a low glucose condition. It is intended to suspend insulin delivery and minimize the amount of time spent with low BG values.



WARNING: Do not use the Suspend on low feature until you have read the information in this user guide and received training from your healthcare professional. The Suspend on low feature causes the pump to temporarily suspend insulin delivery for a maximum of two hours. Under some conditions of use, the pump can suspend again, resulting in limited insulin delivery. Prolonged suspension can increase the risk of serious hyperglycemia, ketosis, and ketoacidosis.

The default setting for the Suspend on low feature is off. Consult your healthcare professional for the Suspend on low setting that is best for you.

If you turn on Suspend on low, then Alert on low is turned on automatically. For more information, see *Alert on low*, on page 172.



WARNING: Always confirm your SG readings with your BG meter and treat according to the recommendations of your healthcare professional. The Suspend on low feature uses the SG value, not your BG value, to automatically suspend your pump. Your pump may automatically suspend when your SG is at or below the low limit, while your BG is above that limit. Assuming that your SG value is accurate may result in the delivery of too little or too much insulin, which can cause hyperglycemia or hypoglycemia.

Responding to a Suspend on low event

When you clear the Suspend on low alarm, the SmartGuard suspend icon  flashes and "Suspended on low" appears on your Home screen.

When a Suspend on low event occurs, the pump tells you.

When a Suspend on low event occurs, insulin delivery will remain suspended for at least 30 minutes. Insulin delivery will be suspended for a maximum of two hours. You can manually resume basal insulin delivery at any time. For details, see *Manually resuming basal insulin delivery during a SmartGuard suspend event*, on page 183. After the minimum 30-minute suspend time, basal insulin delivery will automatically resume if the following conditions are met:

- Your SG is at least 1.1 mmol/L above your low limit.

- Your SG is estimated to be more than 2.2 mmol/L above your low limit within 30 minutes.

If you do not respond to the Suspend on low alarm, your pump resumes basal insulin delivery after two hours and continues to display an emergency message.

When Suspend on low is unavailable

After a Suspend on low event occurs, there is a period of time when the suspend functionality is unavailable. This time will vary depending on whether or not you respond to the Suspend on low event. You can manually suspend insulin delivery at any time. For details, see *Stopping and resuming your insulin delivery, on page 63*.



Note: The maximum amount of time the Suspend on low feature will be unavailable is four hours. After this time period, the Suspend on low feature automatically enables.

When the SmartGuard suspend features are unavailable, the SmartGuard suspend icon on the Home screen appears gray .

When a Suspend on low event occurs and you respond within two hours and:

- Stay suspended for the two-hour maximum suspend time, the SmartGuard suspend features will be unavailable for 30 minutes after your basal insulin delivery resumes.
- Your basal insulin delivery automatically resumes due to your rising SG levels, the SmartGuard suspend features will be unavailable for 30 minutes after your basal insulin delivery resumes.
- Manually resume your basal insulin delivery, the SmartGuard suspend features will be unavailable for 30 minutes after your basal insulin delivery resumes.

If your pump has been suspended for two hours and you have not responded, basal insulin delivery automatically resumes.

If you respond within 30 minutes of basal insulin delivery being resumed, the SmartGuard suspend features will be unavailable for a total of 30 minutes. For example:

- If you respond 10 minutes after your basal insulin delivery resumes, the SmartGuard suspend features will be unavailable for an additional 20 minutes.

- If you respond 20 minutes after your basal insulin delivery resumes, the SmartGuard suspend features will be unavailable for an additional 10 minutes.

If you respond 30 minutes to four hours after your basal insulin delivery resumes, the SmartGuard suspend features will be available immediately.

If you do not respond, the SmartGuard suspend features will be unavailable for four hours after basal insulin delivery resumes.

Alert on low

The Alert on low feature is automatically turned on when either the Suspend before low or the Suspend on low feature is turned on.

When Alert on low is set to on, you receive an alert when your SG reading reaches or falls below your low limit. If your pump is suspended and you have not responded, an emergency message appears.

Automatically resuming basal insulin delivery after a SmartGuard suspend event

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

- If insulin delivery has been suspended for a minimum of 30 minutes and SG values are at least 1.1 mmol/L above the low limit and expected to be more than 2.2 mmol/L above the low limit in 30 minutes
- After a maximum of two hours

Resume basal alert

When the Resume basal alert is on, you will be alerted when basal insulin delivery is automatically resumed. If the Resume basal alert is off, basal insulin delivery resumes, but you do not receive an alert. However, you will get a message indicating that the basal insulin delivery has automatically resumed.

If basal insulin delivery resumes after the maximum suspend time of two hours, you will be alerted even if the Resume basal alert is set to off. It is important that you check your BG and ensure your glucose is at a safe level.

For details on setting up the Resume basal alert, see *Setting up the low SG settings*, on page 180.

SmartGuard suspend examples

The following examples describe several scenarios that illustrate different types of suspend events, user actions in response to these events, and what happens to insulin delivery in each case.

The examples cover the following:

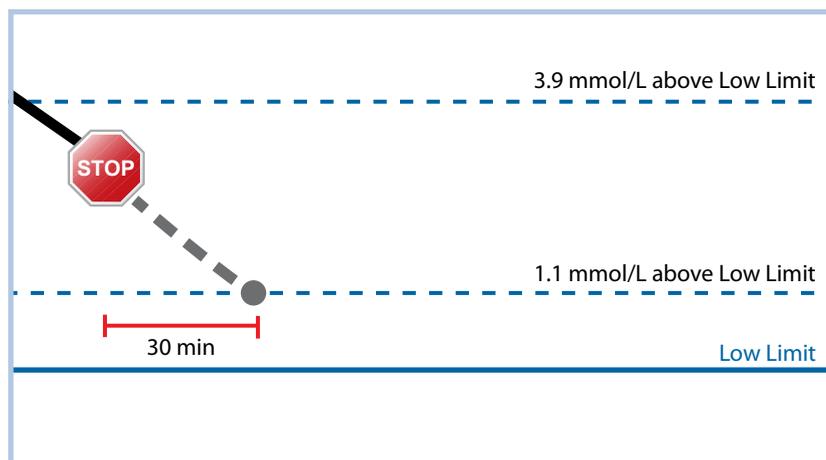
- Example 1: Suspend before low, non-responsive, auto resume basal insulin delivery (trending upwards)
- Example 2: Suspend before low, responsive, manually resume basal insulin delivery
- Example 3: Suspend before low, responsive, stays suspended
- Example 4: Suspend on low, response after basal insulin delivery resumes



Note: During the Suspend on low siren, you can press any button to silence your pump for two minutes. The temporary silencing of the alarm does not affect the suspension or delivery of insulin.

Example 1: Suspend before low, non-responsive, auto resume basal insulin delivery (trending upwards)

Sarah has been experiencing low SG values. Her healthcare professional has recommended she use the Suspend before low feature. While at a concert, Sarah's SG values are approaching her low limit. Her pump recognizes that her glucose will be at or within 1.1 mmol/L above her low limit within 30 minutes and suspends her insulin delivery. Sarah has her Alert before low set to off so that she is not alerted when this occurs.



An hour later, her SG values are 1.2 mmol/L above her low limit. Her pump estimates her SG values will be 2.4 mmol/L above her low limit within 30 minutes. Her pump automatically resumes her basal insulin delivery.

When the concert ends, Sarah sees that her pump automatically suspended and resumed her insulin delivery and a potential low was avoided. She clears the messages by selecting OK.

Example 2: Suspend before low, responsive, manually resume basal insulin delivery

Kate decides to meet her friends at the mall. While shopping, she gets a Suspend before low alert. This indicates that her SG values are approaching the low limit she has set. She clears the alert and sees that her insulin delivery has been suspended. Kate checks her BG to confirm. Based on her healthcare professional's recommendation, Kate stops for a snack to help avoid hypoglycemia. Knowing the carbohydrate will make her glucose rise, Kate manually resumes her basal insulin delivery by selecting Suspended before low from the Home screen and choosing Resume basal.

Kate knows that after she has manually resumed her basal insulin delivery, the suspend functions will be unavailable for 30 minutes. However, she will be alerted if she reaches her low limit.

Example 3: Suspend before low, responsive, stays suspended

Doug has just finished his evening jog on the beach. As he is walking home, he receives a Suspend before low alert. He sees that his pump has automatically suspended his insulin delivery. Doug clears the alert by selecting OK on his pump. He knows that his pump is now suspended and insulin delivery has been stopped. He checks his BG to confirm and keeps his insulin delivery suspended.

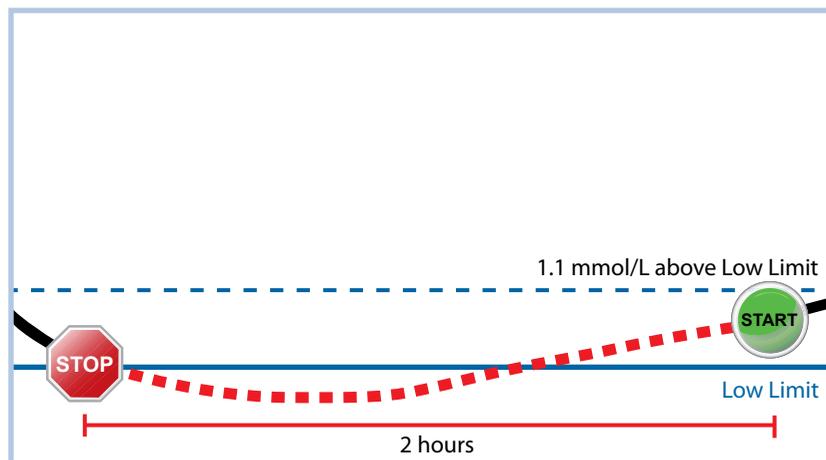
A while later, Doug receives another alert. He looks at his pump and sees that he has received an Alert on low. His SG has reached his low limit. He clears the alert and checks his BG to confirm. He eats carbohydrates to treat the low glucose as instructed by his healthcare professional.

Doug keeps his insulin delivery suspended as directed by his healthcare professional. He knows that once his SG is above his low limit and trending upward, or reaches the maximum suspend time of two hours, basal insulin delivery will automatically resume.

Example 4: Suspend on low, response after basal insulin delivery resumes

Michael is on his college hockey team. He played in a hockey tournament all day and is so exhausted that he falls asleep watching television. His SG value begins to drop. When his SG value reaches his low limit, the pump begins to alarm. His pump automatically suspends all insulin delivery. Michael does not respond to the alarm. After ten minutes, his pump begins to siren and shows the emergency message.

About three hours later, Michael's roommate comes home. He hears the pump sirening and wakes up Michael. Michael clears any messages by selecting OK. He sees that his basal insulin was suspended for the two hour maximum and had automatically resumed delivery. He checks his blood sugar and sees that it is within the target range.



Michael has responded to his alert. The pump will suspend insulin delivery and alarm again if his sensor value reaches or falls below his low limit again.

Turning on the Sensor feature

You must turn on the Sensor feature before you can set up your glucose alerts and start monitoring your SG levels.

To turn on the Sensor feature:

1. Press  and go to the Sensor Settings screen.
Menu > Sensor Settings
2. Select **Sensor** to turn on the sensor feature. The sensor settings become accessible.

Setting up the high SG settings

The steps below show you how to set up the high SG settings. For details on your high SG settings, see *High SG settings*, on page 164.

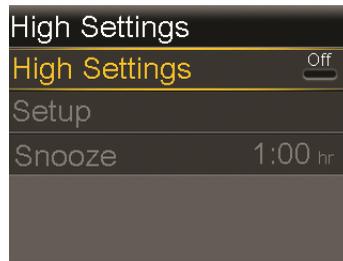


Note: When you enter your settings, you first define the time segment, and then select the high SG settings you want during that time segment.

To set up the high SG settings:

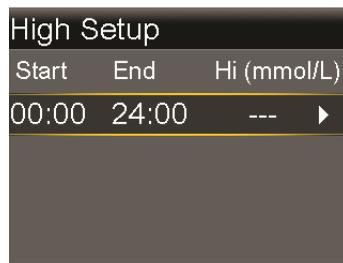
1. Press  and go to the High Settings screen.
Menu > Sensor Settings > High Settings

The High Settings screen appears.



2. Select **High Settings** to turn on the feature.

The High Setup screen appears.



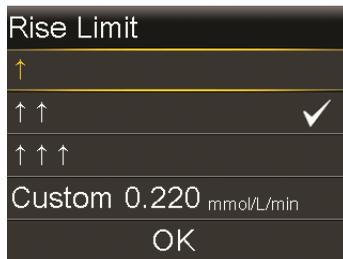
3. Select the time segment. The End time starts flashing.
The Start time of the first time segment is always 00:00. You can set up to eight time segments, each with a different high limit. If you set more than one time segment, the time segments must cover a 24-hour period.
4. Set the End time.
5. Set your High limit. You can enter a value from 5.6 to 22.2 mmol/L, in increments of 0.2 mmol/L.
6. Select the arrow to the right of the End time to select the high alerts for this time segment.

A screen appears and shows the high alerts for the selected time segment.



7. Set the following alerts as desired:
 - a. Select **Alert before high** to receive an alert before you reach your high limit.
 - b. Set the **Time before high** option between 5 to 30 minutes to receive an alert before you reach your high limit.
 - c. Select **Alert on high** to receive an alert when you reach your high limit.
 - d. Select **Rise Alert** to receive an alert when your SG is rising quickly.
Go to step 11 if you do not select Rise Alert.
8. If you turned on the Rise Alert, you must set the Rise Limit. Scroll down and select **Rise Limit** to access this option.

The Rise Limit screen appears.



9. Select one, two, or three arrows for the rise rate. To use a custom rate, go to step 9.
 - Select **↑** for an alert when your SG has been rising at a rate of 0.056 mmol/L per minute or more.
 - Select **↑↑** for an alert when your SG has been rising at a rate of 0.111 mmol/L per minute or more.
 - Select **↑↑↑** for an alert when your SG has been rising at a rate of 0.167 mmol/L per minute or more.

Select **OK**, and go to step 11.



Note: These arrows appear on your Home screen to indicate the rate at which your SG has been rising.

10. To enter a custom rise limit, do the following:
 - a. Select **Custom**. The Custom Limit screen appears.
 - b. Select **Rise Limit** and set a rise rate in 0.005 mmol/L/min increments from 0.050 to 0.275 mmol/L/min.
 - c. Select **OK** to return to the Rise Limit screen, and then select **OK** again to confirm your settings.
11. After you set all the high SG settings for the selected time segment, select **Next** to continue.
12. If you entered an End time of anything other than 24:00, another time segment appears. After you enter the high SG settings, select **Done**.
13. Review your settings and select **Save**.

To change your high SG settings:

1. Press  and go to the High Settings screen.
Menu > Sensor Settings > High Settings
The High Settings screen appears.
2. Select **Setup**.
3. Select **Edit**.
4. Select and adjust the time segment you want to change.
5. Select any alert setting to turn it on or off or to adjust the setting.
6. Select **Next**.
7. Select **Done**.
8. Review your settings and select **Save**.

High Snooze

The High Snooze option is available once you set your high SG settings. The High Snooze option lets you set the amount of time that you want to wait before you are reminded that an alert condition still exists. You are alerted again only if the high alert condition still exists after the specified snooze time.

To set the High Snooze:

1. Press  and go to the High Settings screen.
Menu > Sensor Settings > High Settings
The High Settings screen appears.
2. Select **Snooze** and enter a value in 5-minute increments from 5 minutes to 3 hours.
3. Select **Snooze** again to save the setting.

Setting up the low SG settings

The steps below show you how to set up the low SG settings. For details on the low SG settings, see *Low SG settings, on page 165*.



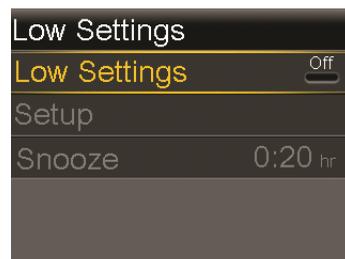
Note: When you enter your settings, you first define the time segment, and then select the low SG settings you want during that time segment.

To set up the low SG settings:

1. Press  and go to the Low Settings screen.

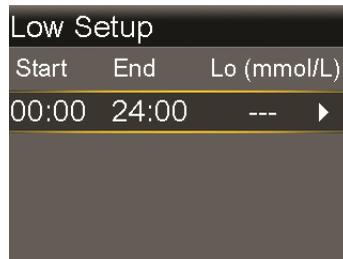
Menu > Sensor Settings > Low Settings

The Low Settings screen appears.



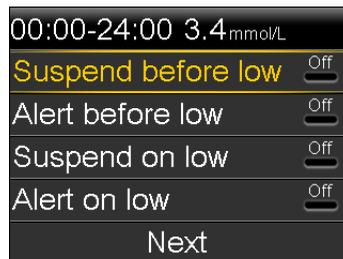
2. Select **Low Settings** to turn on the feature.

The Low Setup screen appears.



3. Select the time segment. The End time flashes.
The Start time of the first time segment is always 00:00. You can set up to eight time segments, each with a different low limit. If you set more than one time segment, the time segments must cover a 24-hour period.
4. Set the End time.
5. Set your low limit. Enter a value in increments of 0.2 mmol/L from 2.8 to 5.0 mmol/L.
6. Select the arrow to the right of the End time to select the low SG settings for this time segment.

A screen appears and shows the available settings for the selected time period.



7. Set the following features as desired:
 - a. Select **Suspend before low** to have insulin delivery suspended before you reach your low limit. The Alert on low alert is automatically turned on and cannot be turned off.
 - b. Select **Alert before low** to receive an alert before you reach your low limit. If Suspend before low is also on, you are alerted when insulin delivery is suspended.

- c. Select **Suspend on low** to have insulin delivery suspended when you reach or fall below your low limit. The Alert on low alert is automatically turned on and cannot be turned off.
- d. Select **Alert on low** if you want to receive an alert when your SG reaches or falls below your low limit. If either suspend feature is on, this will already be on.
- e. Select **Resume basal alert** if you want an alert when basal insulin delivery resumes based on SG values during a SmartGuard suspend event. If you do not turn on the alert, the Basal delivery resumed message still appears, but you will not receive an alert.



Note: When you set your low alerts:

- If you turn on Suspend before low or Suspend on low, Alert on low is turned on automatically.
- Only one SmartGuard suspend feature can be used during each time segment. You cannot turn on both Suspend before low and Suspend on low in the same time segment.

8. If you entered an End time of anything other than 24:00, another time segment appears.

When you are finished entering your low SG settings, select **Done**.

9. Review your settings, and select **Save**.

To change your low SG settings:

1. Press  and go to the Low Settings screen.

Menu > Sensor Settings > Low Settings

The Low Settings screen appears.

2. Select **Setup**.
3. Select **Edit**.
4. Select, and if needed, adjust the time segment you would like to change.
5. Select any alert setting to turn it on or off or to adjust the setting.

6. Select **Next**.
7. Select **Done**.
8. Review your settings, and select **Save**.

Low Snooze

The Low Snooze option is available once you set your low SG settings. The Low Snooze option lets you set the amount of time that you want to wait before you are reminded that an alert condition still exists. You are alerted again only if the low alert condition still exists after the specified snooze time.

To set the Low Snooze:

1. Press  and go to the Low Settings screen.

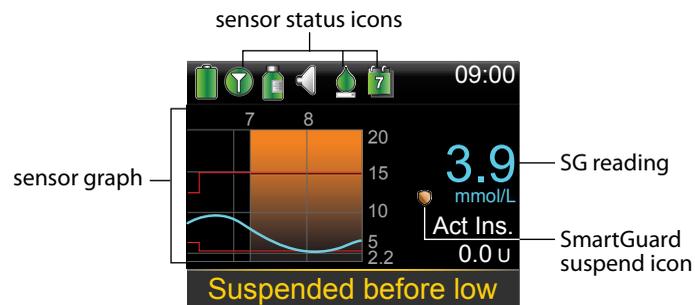
Menu > Sensor Settings > Low Settings

The Low Settings screen appears.

2. Select **Snooze** and enter a time between 5 minutes and 1 hour.
3. Select **Snooze** again to save the setting.

Manually resuming basal insulin delivery during a SmartGuard suspend event

When your pump suspends insulin delivery due to a Suspend before low or Suspend on low event, the bottom of your Home screen shows either Suspended before low or Suspended on low depending on which is active.



If you do not want to wait for your pump to automatically resume your basal insulin delivery, you can follow the procedure below to manually resume your basal insulin delivery.

To manually resume basal insulin delivery:

1. From the Home screen, select **Suspended before low** or **Suspended on low**.
The SmartGuard screen appears.
2. Select **Resume Basal**.
3. Select **Yes** to resume basal insulin delivery.

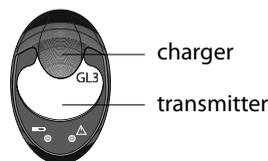
Pairing your pump and transmitter

Before you can start using your sensor, you must first pair your pump with your transmitter so they can begin communicating with each other when they are wirelessly connected.

Note that you can pair only one transmitter with your pump. If you already have a transmitter paired with your pump, you must delete it before continuing. For instructions on deleting a transmitter from your pump, see *Deleting the transmitter from your pump*, on page 187.

To pair the pump and transmitter:

1. Attach your transmitter to the charger and make sure the transmitter is fully charged. Keep your transmitter attached to the charger.

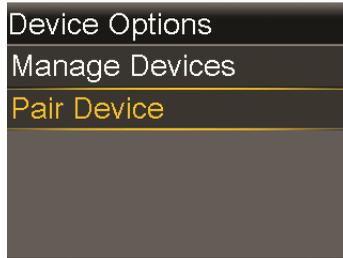


Note: Both lights on the charger are off when the transmitter is fully charged. For more information, see your transmitter user guide.

2. Press **❖** and go to the Device Options screen.

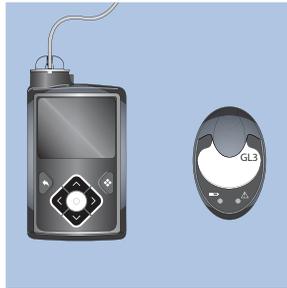
Menu > Utilities > Device Options

3. Select **Pair Device**.

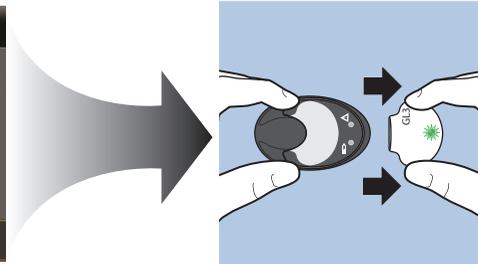


The New Device screen appears.

- Place the transmitter (still attached to the charger) next to the pump.



- Select **Search** on your pump and immediately remove the transmitter from the charger.



The following happens when you start the search process:

- On your pump, a message appears to let you know your pump is searching.
- On your transmitter, a green light starts to flash.



Note: The search process can take up to two minutes. You cannot access your pump screens or suspend your pump during the search process.

The Select Device screen appears with a list of available devices.

6. Select the CGM device that matches the serial number on the back of the transmitter.



7. Ensure the transmitter serial number on your pump screen matches the serial number on the back of your transmitter, and then select **Confirm**.



A message appears if the pump and transmitter are paired successfully. If the Sensor feature is turned on, the Connection icon  appears on the Home screen.

If your pump does not find your transmitter, the Device not found alert appears. See the following procedure, *If your pump does not find your transmitter*.

If your pump does not find your transmitter:

1. Select **OK** on the Device not found alert. The Select Device screen appears.
2. Select CGM from the list and reconfirm to retry pairing.
3. If the pairing is unsuccessful and the Device not found alert appears a second time, select **OK**. When the Select Device screen appears, select the **Back** button to return to the New Device screen to restart the pairing process from the beginning.

Deleting the transmitter from your pump

Follow this procedure to delete the transmitter from your pump. Use this process when you are replacing your transmitter.

To delete your transmitter from your pump:

1. Press  and go to the Manage Devices screen.
Menu > Utilities > Device Options > Manage Devices
2. Select CGM.
3. Select **Delete**. A confirmation screen appears asking if you want to delete the device.
4. Select **Yes** to confirm or **No** to cancel.

Inserting the sensor

Always refer to your sensor user guide for instructions on how to insert the sensor.

Connecting the transmitter to the sensor

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

Starting the sensor

After you insert your sensor and connect your sensor and transmitter, your pump starts to communicate with the transmitter. The pump tells you when the sensor is ready to use.

To start a new sensor:

1. Select **Start New Sensor** when it appears on the pump screen.

The "Sensor warm-up started" message appears.



Note: It may take up to five minutes for the "Sensor warm-up started" message to appear.

2. Select **OK**.

"Warm up..." appears on the Home screen until the sensor is ready for first calibration.

Reconnecting the sensor

There are times when you remove the transmitter from an inserted sensor. After you reconnect the transmitter to the sensor, the pump detects the connected transmitter. A "Sensor connected" message appears.

To reconnect a sensor:

1. Select **Reconnect Sensor**.

The "Sensor warm-up started" message appears.



Note: It may take up to five minutes for the "Sensor warm-up started" message to appear.

2. Select **OK**.

"Warm up..." appears on the Home screen until the sensor is ready for its first calibration.

Calibrating your sensor

Calibration is the process of entering a BG meter reading to calculate SG values. You must calibrate your sensor regularly to ensure you continue to receive SG data. For details, see *Guidelines for calibrating*, on page 191.

Within two hours after you use your pump to start the sensor, your pump displays a Calibrate now alert to let you know that a calibration is due. This BG meter reading is the first calibration for your sensor. It takes up to five minutes after calibration to see the first SG reading on your Home screen. You enter your second calibration within six hours after your first calibration.

After you have entered your first two calibrations, you must calibrate your sensor again within 12 hours. If you do not enter a BG meter reading within 12 hours, your pump displays the Calibrate now alert and stops calculating SG values until a calibration BG is successfully entered. The sensor must be calibrated at a minimum

of every 12 hours throughout the life of the sensor. For better sensor performance, it is recommended that you calibrate your sensor three or four times each day at regular times throughout the day, such as before meals.

You may also receive additional Calibrate now alerts to let you know that another calibration is required to improve performance.

When the Calibrate now alert appears, the system stops calculating SG values until a calibration BG is successfully entered.



Note: Sensor calibration is successful only if your BG entry is in the range of 2.2 to 22.2 mmol/L. Remember to calibrate three or four times throughout the day for optimal results.

To calibrate your sensor:

1. Take a BG meter reading.
2. Go to the Calibrate Sensor screen.

Menu > Sensor Settings > Calibrate Sensor

3. Select **BG** and enter the value.
4. Select **Calibrate**.

Setting up Auto Calibration

The Auto Calibration feature determines how to calibrate the pump when using a paired Accu-Chek Guide Link meter. When the Auto Calibration feature is turned on, the pump uses any BG value in the range of 2.2 to 22.2 mmol/L for calibration. When this feature is turned off, the pump asks you if you want to use the reading for calibration every time you confirm a BG reading from the Accu-Chek Guide Link meter.

To turn on Auto Calibration:

1. Go to the Auto Calibration screen.
Menu > Sensor Settings > Auto Calibration
2. Select **Auto Calibration** to turn on the feature.
3. Select **Save**.



Note: If you decide not to use the Auto Calibration in the future, select **Auto Calibration** to turn off the feature.

Where to enter your calibration BG meter reading

There are several screens on the pump where you can enter a BG meter reading for calibration. These screens are described in the following table. These options are available only if you are using a sensor.

Pump screen	How to enter your calibration BG
Home screen When the calibration option is available, you can access the Calibrate Sensor screen. First highlight the sensor graph on the Home screen. Then press and hold the  button to access the calibration screen.	Enter a BG meter reading specifically for calibration.
Calibrate Sensor screen Menu > Sensor Settings > Calibrate Sensor	Enter a BG meter reading specifically for calibration.
BG Meter screen The BG Meter screen appears after your Accu-Chek Guide Link meter sends a BG meter reading to your pump.	Select the Calibrate Sensor option to calibrate your sensor with the current BG meter reading.
BG screen in Event Markers Menu > Event Markers > BG	When you enter a BG meter reading in Event Markers, the Event Markers screen has an option to use the BG value for calibration.
BG field in the Bolus Wizard screen Home screen > Bolus > Bolus Wizard	When you enter a BG meter reading to deliver a bolus using the Bolus Wizard feature, the Bolus Wizard feature gives you the option to use the BG value for calibration after the bolus is delivered.

When to calibrate

The following table describes when to calibrate your sensor.

Calibrate	Description
After warm-up is complete.	Do your first sensor calibration. Your pump displays a Calibrate now alert within two hours after starting a new sensor. Your first SG reading appears up to five minutes after you calibrate.
Within six hours after your first calibration.	Do your second sensor calibration. Six hours after you calibrate for the first time, a Calibrate now alert appears, and your pump stops calculating your SG values. It takes up to five minutes after you calibrate to receive SG values again.
Within 12 hours after your second calibration and at least every 12 hours thereafter.	After you do your second calibration, you need to calibrate at least every 12 hours. For better sensor performance, it is recommended that you calibrate your sensor three or four times each day. If you do not calibrate for more than 12 hours, a Calibrate now alert appears. It takes up to five minutes after you calibrate to receive SG values again.
When the Calibrate now alert appears.	You may also receive additional Calibrate now alerts to let you know that another calibration is required to improve performance. It takes up to five minutes after you calibrate to receive SG values again.



Note: When a BG is entered for calibration, dashes appear in place of the SG reading, and "Calibrating..." appears on the sensor graph.

Guidelines for calibrating

Follow these guidelines for best sensor calibration results:

- Calibrate three or four times spread out throughout the day to improve accuracy. For details, see *When to calibrate, on page 191*.

- You can calibrate any time. However, calibrating with two or three trend arrows may temporarily decrease accuracy until the next calibration. For an example of trend arrows on the Home screen, see *Home screen with CGM, on page 160*.
- Always calibrate immediately after you check your BG. Never calibrate with a BG meter reading taken more than 12 minutes earlier as that BG value would no longer be considered valid.
- Always use clean, dry fingers when you check your BG levels.
- Use only your fingertips when obtaining blood samples for calibration.



Note: If your BG meter readings are significantly different than your SG readings, wash your hands and calibrate again.

Disconnecting the transmitter from the sensor

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

Removing the sensor

Always refer to the sensor user guide for instructions on how to remove the sensor.

Turning off Sensor Settings

You can turn off Sensor Settings at any time. If you disconnect the transmitter from the sensor, turn off the Sensor Settings to avoid getting a sensor alert. Your sensor settings remain in your pump. You cannot make changes to the settings until you turn on the Sensor Settings again.

To turn off Sensor Settings:

1. Press  and go to the Sensor Settings screen.

Menu > Sensor Settings

2. Select **Sensor**.
3. Select **Yes** to turn off the sensor feature.

11

Using CGM

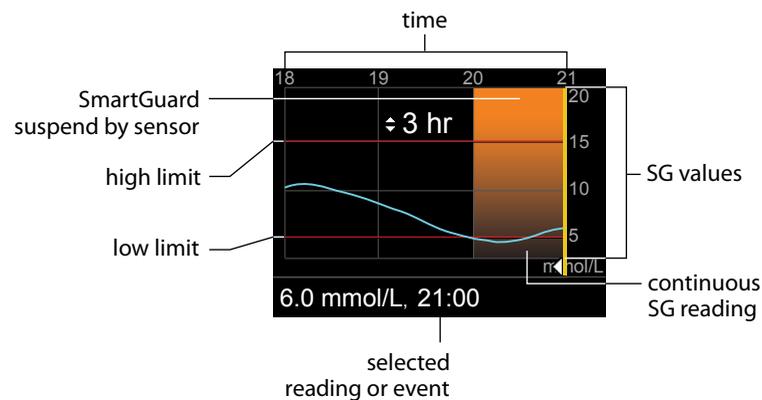


Using CGM

This chapter provides information on how to use CGM on your pump and view your SG data. This information helps you identify SG trends, including being notified if your SG is falling or rising rapidly. You can also view historical SG readings in a graph format. Information is also included on how to silence your glucose alerts.

The sensor graph

The sensor graph displays your current SG reading that is wirelessly sent to your pump by the transmitter.



The sensor graph includes the following information:

- The most recent SG reading.
- Your historical SG readings for the last 3-hour, 6-hour, 12-hour, or 24-hour periods.
- Your high and low SG limits.

- The bolus deliveries you have given during the time period shown on the graph.
- Any suspend events that have occurred.

If an SG reading does not appear on the graph, some possible reasons for this include:

- An error condition or a sensor-related alert is occurring.
- A new sensor that you just inserted is still initializing.
- A new sensor that just initialized is still calibrating.
- An existing sensor that you have recently reconnected is not ready.
- More than six hours have passed since the initial sensor calibration.
- More than 12 hours have passed since the last sensor calibration.

To view the sensor graph:

1. Select the graph area of the Home screen.
A full-screen view of the 3-hour graph appears.
2. Press \wedge to navigate to the 6-hour, 12-hour, and 24-hour graphs.
3. Press \leftarrow to view SG readings and event details.
4. To exit the full-screen view, press \leftarrow .

Identifying rapid changes in SG

When you use a sensor, trend arrows appear on the Home screen if your SG has been rising or falling faster than a certain per-minute rate. The number of arrows that appear tell you how quickly your SG is changing.

The following table shows the trend arrows and their corresponding rates.

	SG has been rising at a rate of 0.056 mmol/L per minute or more, but less than 0.111 mmol/L per minute.
	SG has been falling at a rate of 0.056 mmol/L per minute or more, but less than 0.111 mmol/L per minute.
	SG has been rising at a rate of 0.111 mmol/L per minute or more, but less than 0.167 mmol/L per minute.



SG has been falling at a rate of 0.111 mmol/L per minute or more, but less than 0.167 mmol/L per minute.



SG has been rising at a rate of 0.167 mmol/L per minute or more.



SG has been falling at a rate of 0.167 mmol/L per minute or more.

Silencing glucose alerts

The Alert Silence option lets you make SG alerts silent for a set period of time. This is useful in situations where you do not want to disturb others, such as when you are in a business meeting or in a movie theater. When using this option, one of the following status icons appears on the Home screen, depending on your Audio Options settings: vibrate only , audio only , or vibrate and audio . Your system still records the time and glucose value for any alerts that occur. You can view this information in the Alarm History screen.

If a glucose alert occurs when you are using the Alert Silence option, the notification light begins to flash and the Sensor alert occurred alert appears to let you know an alert was silenced, but there is no vibration or beep. If you have not cleared the alert by the end of the preset alert silence duration, your pump begins to beep or vibrate periodically until the alert is cleared.

The following table describes the glucose alerts that are silenced with each option.

Option	Silences these alerts
High Alerts Only	Alert on high, Alert before high, and Rise Alert
High & Low Alerts	Alert on high, Alert before high, Rise Alert, Alert on low, Alert before low, Suspend before low, and Resume Basal Alert



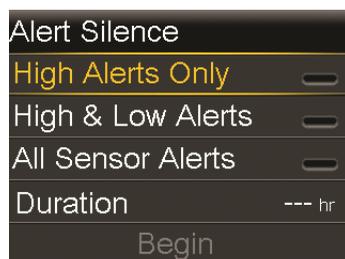
Note: Alert on low cannot be silenced if the SmartGuard Suspend on low or SmartGuard Suspend before low options are turned on.

Option	Silences these alerts
All Sensor Alerts	<p>All of the alerts listed previously for High & Low Alerts, plus the following:</p> <ul style="list-style-type: none"> • All calibration alerts, reminders, or error messages • All alerts relating to sensor insertion, including alerts about sensor warm-up, changing your sensor, sensor expiration, sensor errors, connection issues, and so on • All alerts related to your transmitter, including all alerts about your transmitter battery and all connection issues

To silence glucose alerts:

1. Press  and go to the Alert Silence screen.

Menu > Sensor Settings > Alert Silence



2. Select **High Alerts Only**, **High & Low Alerts**, or **All Sensor Alerts** to set the alerts you want silenced. Refer to the previous table for details about the alerts silenced with each selection.



Note: If you select **All Sensor Alerts**, you will not receive any alerts related to your SG readings, your sensor, calibration requirements, or your transmitter. If a silenced glucose alert occurs, the notification light flashes and a message appears to notify you that a silenced alert occurred, but there is no vibration or beep. You can view the specific alert in Alarm History. For more information, see *Alarm History*, on page 130.

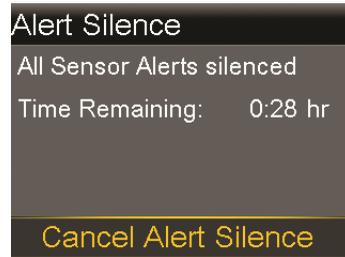
3. Set the **Duration**. The duration can be set in 30-minute increments from 30 minutes to 24 hours.

4. Select **Begin**. The Alert Silence settings immediately take effect and you are returned to the Sensor Settings screen.

To cancel Alert Silence:

1. Press  and go to the Alert Silence screen.

Menu > Sensor Settings > Alert Silence



2. Select **Cancel Alert Silence**.

12

Alarms, alerts, and messages



12

Alarms, alerts, and messages

This chapter describes the general behavior of the most common and the most serious notifications and how to resolve them. For information about how to set your notification preferences in the app, see the MiniMed Mobile app user guide.

About alarms, alerts, and messages

Your pump has a sophisticated safety network. If this safety network detects anything unusual, it conveys this information in the form of notifications.

Notifications include alarms, alerts, and messages.

When you receive more than one notification and there are multiple messages to view, a small white flap appears on the notification icon in the upper-right corner of the screen . When you clear the first notification, the next notification becomes visible.



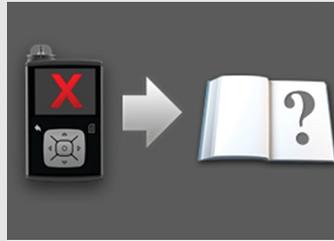
Note: It is important that you promptly respond to all notifications and confirmations that appear on your pump. In the event that you do not respond, your pump may remain on that screen until addressed.

When you respond to a message, there may be times when another message appears. Always be sure to address all notifications you have received.

A white triangle in the lower-right corner means you must press ✓ to continue.



WARNING: If you receive a Critical pump error alarm on your pump, the following screen displays and the pump sirens.



Immediately disconnect from your insulin pump and discontinue use. Contact your local Medtronic support representative for assistance.

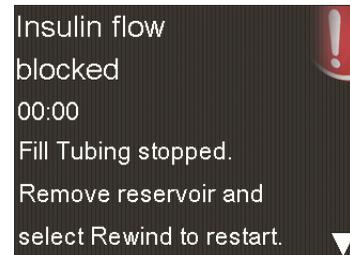
Remember, your body still needs insulin while your pump is removed. It is important that you consult your healthcare professional to determine an alternate method of receiving insulin while your pump is removed. For more information on the Critical pump error alarm, see *Pump alarms, alerts, and messages*, on page 206.

Alarms

An alarm warns you of a condition that needs your immediate attention. Stopped insulin delivery and low glucose levels are the most common reasons for alarms.



WARNING: Always address alarms immediately when they occur. Ignoring an alarm can result in hyperglycemia or hypoglycemia.



When an alarm occurs:

Display: The pump displays a notification with a red icon and instructions.

Notification light: The red notification light blinks twice, followed by a pause, in a continuous repeating pattern.

Audio: Depending on your Audio Options settings, the pump emits an alarm tone, a continuous three-pulse-and-pause vibration pattern, or both the alarm tone and vibration.

You must resolve the underlying problem that triggered the alarm. In most cases, you clear an alarm by pressing \surd and then you make a selection. In some cases, however, clearing the alarm does not fix the underlying problem. The alarm repeats until the underlying problem is fixed.

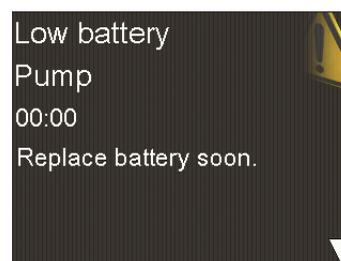
If you do not respond to an alarm, after ten minutes the alarm tone escalates to a loud emergency siren.

Alerts

An alert makes you aware of a situation that may require your attention. When an alert occurs, always check your pump screen to see if any action is required.

When an alert occurs:

Display: The pump displays a notification with a yellow icon and instructions.



Notification light: The red notification light on your pump blinks once, followed by a pause, then blinks once again in a continuous repeating pattern.

Audio: Depending on your Audio Options settings, the pump either beeps or vibrates in a continuous three-pulse-and-pause pattern, or does both.

To clear an alert, press \surd and then make a selection. If you do not respond to an alert, the pump beeps every five minutes or every fifteen minutes, depending on the alert. Some alerts will also escalate to a loud emergency siren after ten minutes.



Note: If an alert occurs when you are in a screen other than the Home screen, the alert message may appear after you return to the Home screen.

Messages

A message informs you about the status of your pump or if you need to make a decision.

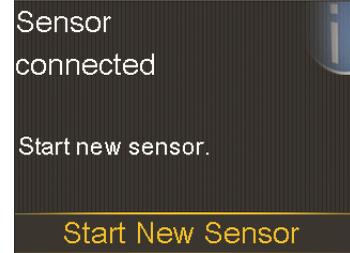
When a message occurs:

Display: The pump displays a notification with a blue icon and instructions.

Notification light: Does not illuminate or blink.

Audio: Depending on the message, the pump emits a message tone, an alert tone, or no tone. Depending on your Audio Options settings, you may hear a tone, feel a one-pulse-only vibration, or hear a tone and feel a vibration.

You clear the message by pressing \vee and making a selection.



Pump alarms, alerts, and messages

The following table lists the most common or serious alarms, alerts, and messages related to your pump. The table also explains the meaning, consequences, and the reasons why these notifications appear, and provides steps for problem resolution.

Title and text	Type	Explanation	Next steps
<p>Active Insulin cleared</p> <p>Any Active Insulin amount has been cleared.</p>	Alert	<p>Your active insulin amount is now at 0 units. This may occur because certain alarms automatically clear active insulin.</p>	<ul style="list-style-type: none"> • Select OK to clear the alert. • The active insulin tracked prior to pump restart is not included in new Bolus Wizard calculations. Consult your healthcare professional for how long you need to wait after active insulin is cleared before you can rely on the active insulin calculation of the Bolus Wizard feature. • You can check Daily History for the time and amount of your last bolus.
<p>Auto Suspend</p> <p>Insulin delivery suspended. No buttons pressed within time set in Auto Suspend.</p>	Alarm	<p>Insulin delivery is currently suspended by Auto Suspend. Auto Suspend is a feature you enabled to automatically suspend insulin delivery and trigger an alarm after no buttons are pressed for a specified period of time. Insulin delivery is suspended until you clear the alarm and resume basal insulin delivery.</p>	<ul style="list-style-type: none"> • To clear the alarm and resume basal insulin delivery, select Resume Basal. • Check your BG and treat as necessary.

Title and text	Type	Explanation	Next steps
Battery failed Insert a new AA battery.	Alarm	The pump battery does not have enough power.	<ul style="list-style-type: none"> • Select OK to clear the alarm. • Remove the old battery and insert a new AA battery.
Battery not compatible. See User Guide.	Alarm	The battery that you inserted into the pump is not compatible.	<ul style="list-style-type: none"> • To clear the alarm, remove the incompatible battery. • Insert a new AA battery.
Bolus not delivered Bolus entry timed out before delivery. If bolus intended, enter values again.	Alert	Bolus values entered, but bolus was not delivered within 30 seconds.	<ul style="list-style-type: none"> • Select OK to clear the alert. • If bolus delivery was intended, check your BG, re-enter bolus values and deliver bolus.
Bolus stopped Cannot resume bolus or cannula fill. XX.XXX of YY.YYY U delivered. ZZ.ZZZ U not delivered. If needed, enter values again.	Alarm	The battery power was exhausted while a bolus or Fill Cannula was in progress, or you did not respond to the Resume bolus? message after replacing the battery.	<ul style="list-style-type: none"> • Note the amount of insulin not delivered. • Replace the AA battery. • Select OK to clear the alarm. • Deliver the remaining bolus amount if needed.

Title and text	Type	Explanation	Next steps
<p>Check settings</p> <p>Startup Wizard settings complete. Check and set up your other settings.</p>	Alert	<p>Some settings have been cleared or reverted to factory default values.</p>	<ul style="list-style-type: none"> • Select OK to clear the alert. • Review any settings that you have not already set in Startup Wizard and re-enter the values, if necessary.
<p>Critical pump error</p> <p>Delivery stopped. Pump not working properly. Stop using pump. Remove infusion set from body. Consider other insulin treatment. See User Guide.</p>	Alarm	<p>Your pump has encountered an error that cannot be resolved. For example, your pump may have a mechanical problem.</p>	<p>The pump is not able to deliver insulin. Remove your infusion set and stop using your pump.</p> <ul style="list-style-type: none"> • Consider another form of insulin delivery. • Check your BG, and treat as necessary. • Write down the error code that appears on the alarm screen. • Call your local Medtronic support representative for assistance with your pump.
<p>Delivery limit exceeded</p> <p>Delivery stopped. Check BG. See User Guide for more information.</p>	Alarm	<p>Your pump has suspended because the hourly delivery limit was met. This limit is based on the maximum bolus and maximum basal setting. If this alarm occurs during a bolus, the bolus is canceled before it can complete.</p>	<ul style="list-style-type: none"> • Check your BG. • Select Resume Basal. • Check Bolus History and re-evaluate your need for insulin. • Continue to monitor your BG.

Title and text	Type	Explanation	Next steps
<p>Device Limit</p> <p>You must delete an existing device (device type) before you can pair a new one (device type).</p>	Message	<p>The pump is already paired with the maximum number of devices for this type.</p> <p>The following list describes the maximum number of each device type to pair with the pump:</p> <ul style="list-style-type: none"> • Meter—four Accu-Chek Guide Link meters • CGM—one Guardian Link (3) transmitter • Mobile Device—one compatible mobile device 	<ul style="list-style-type: none"> • Select OK to clear the message. • Go to the Manage Devices screen and select the device you want to delete from the list of devices. <p>Select Delete, and then select Yes to confirm or No to cancel.</p> <p>Pair the pump and the desired device.</p>
<p>Device not compatible</p> <p>Device cannot be used with this pump.</p>	Alert	<p>The pump cannot pair with the selected device.</p>	<ul style="list-style-type: none"> • Select OK to clear the alert. • Contact your local Medtronic support representative for assistance.

Title and text	Type	Explanation	Next steps
<p>Device not found</p> <p>Make sure device is in range and in pairing mode.</p>	Alert	The pump did not pair with the device.	<ul style="list-style-type: none"> • Select OK to clear the alert. • Make sure the device is not already paired with a pump. • Make sure the device is ready to pair with the pump. • Make sure you are away from any electronic devices that might cause interference, such as cellular phones that are not paired with the MiniMed 740G System and other wireless devices. • Move the device closer to the pump. • Try to pair the pump with the device again.
<p>Fill Cannula?</p> <p>Select Fill to fill cannula or select Done if not needed.</p>	Alarm	You had the Fill Cannula screen displayed for 15 minutes.	<ul style="list-style-type: none"> • To proceed and fill the cannula, select Fill. • If you do not need to fill the cannula, select Done to skip this process.
<p>High BG XX.X mmol/L</p> <p>Check infusion set. Check ketones. Consider insulin injection. Monitor BG.</p>	Alert	Your BG meter reading is above 13.9 mmol/L.	<ul style="list-style-type: none"> • Select OK to clear the alert. • Check your BG and treat as necessary.

Title and text	Type	Explanation	Next steps
Insert battery Delivery stopped. Insert a new battery now.	Alarm	The battery was removed from the pump. If a bolus was in progress when the battery was removed, a Resume bolus? message appears and a tone sounds when a new battery is inserted. The message indicates how much bolus was delivered.	<ul style="list-style-type: none"> • Insert a new AA battery. • The alarm clears when you insert a new battery. • The pump powers off after 10 minutes unless you insert a new battery.

Title and text	Type	Explanation	Next steps
<p>Insulin flow blocked</p> <p>Check BG. Consider injection and testing ketones. Change reservoir and infusion set.</p>	Alarm	<p>Your pump has detected that the basal or bolus insulin flow was blocked.</p>	<ul style="list-style-type: none"> • Check your BG. Consider checking ketones and take an injection if needed. • Remove your infusion set and reservoir. • Select Rewind to start the new reservoir process using a new infusion set and reservoir. <p>If a bolus delivery was in progress when the alarm occurred:</p> <ul style="list-style-type: none"> • Check the Daily History screen for the amount of bolus already delivered before the pump alarmed. • Consider delivering remaining bolus, if the bolus insulin was not included in an insulin injection.

Title and text	Type	Explanation	Next steps
<p>Insulin flow blocked</p> <p>Check BG. Consider injection and testing ketones. Estimated 0 U insulin in reservoir. Change reservoir and infusion set.</p>	Alarm	<p>Your pump has detected that the insulin flow was blocked and there is no insulin in the reservoir.</p>	<ul style="list-style-type: none"> • Check your BG. Consider checking ketones and take an injection if needed. • Remove your infusion set and reservoir. • Select Rewind to start the new reservoir process using a new infusion set and reservoir. <p>If a bolus delivery was in progress when the alarm occurred:</p> <ul style="list-style-type: none"> • Check the Daily History screen for the amount of bolus already delivered before the pump alarmed. • Consider delivering remaining bolus, if the bolus insulin was not included in an insulin injection.

Title and text	Type	Explanation	Next steps
<p>Insulin flow blocked</p> <p>Fill Cannula stopped.</p> <p>Remove infusion set from body.</p> <p>Change reservoir and infusion set.</p>	Alarm	Your pump has detected the insulin flow was blocked while filling the cannula.	<ul style="list-style-type: none"> • Check your BG. Consider checking ketones and take an injection if needed. • Remove your infusion set and reservoir. • Select Rewind to start the new reservoir process using a new infusion set and reservoir.
<p>Insulin flow blocked</p> <p>Fill Tubing stopped.</p> <p>Remove reservoir and select Rewind to restart.</p>	Alarm	Your pump has detected the insulin flow was blocked while filling the tubing. Possible connection issue between the tubing and reservoir.	<ul style="list-style-type: none"> • Remove the reservoir and select Rewind to restart the fill tubing process. • Disconnect tubing from reservoir. • Be sure tubing is not crimped or bent. • Continue following the steps displayed on the pump using the same infusion set and reservoir. • If this alarm occurs again, use a new infusion set.
<p>Loading incomplete</p> <p>Remove reservoir and select Rewind to restart loading.</p>	Alarm	You pressed  after loading began.	<ul style="list-style-type: none"> • Remove the reservoir to start again. • Select Rewind and follow the on-screen instructions.

Title and text	Type	Explanation	Next steps
<p>Low battery Pump</p> <p>Replace battery soon.</p>	Alert	<p>The battery in the pump is low on power. Remaining battery life is 10 hours or less.</p>	<ul style="list-style-type: none"> • Select OK to clear the alert. • Replace the AA battery as soon as possible. Otherwise, insulin delivery stops, and the Replace Battery Now alarm occurs. • If the pump is delivering a bolus or filling the cannula, wait until delivery is complete to replace battery.
<p>Low BG X.X mmol/L</p> <p>Treat Low BG. Do not bolus until BG is normal. Monitor BG.</p>	Alert	<p>Your BG meter reading is below 3.9 mmol/L.</p>	<ul style="list-style-type: none"> • Select OK to clear the alert. • Check your BG and treat as necessary.
<p>Low reservoir</p> <p>XX:XX hours remaining. Change reservoir.</p> <p>or:</p> <p>XX units remaining. Change reservoir.</p>	Alert	<p>Your reservoir is low on insulin, according to the number of hours or units set in the Low Reservoir Reminder.</p>	<ul style="list-style-type: none"> • Select OK to clear the alert. • Change the reservoir soon. • If you do not change the reservoir after you receive this alert, you will receive a second Low reservoir alert when the insulin level reaches half of your original alert amount.

Title and text	Type	Explanation	Next steps
<p>Manage settings error</p> <p>Delivery stopped. Backup settings cleared from Manage Settings. Current settings are working properly. Select OK to restart. See User Guide.</p>	Alarm	<p>A pump error has occurred, and you need to restart your pump. Your backup settings have been lost, but your current settings are unchanged.</p>	<ul style="list-style-type: none"> • Select OK to restart your pump. Your current settings are unchanged. Only your backup settings are lost. • When the pump restarts, follow instructions on the pump display. • If the pump was delivering a bolus or filling the cannula, check Daily History and evaluate your need for insulin.
<p>Max Fill reached</p> <p>3X.X U. Did you see drops at the end of tubing?</p>	Alarm	<p>You have exceeded the number of units expected to fill the tubing. By now, insulin should be at the end of the tubing.</p>	<ul style="list-style-type: none"> • If you see drops at the end of the tubing, select Yes. • If you do not see drops, select No. • Follow instructions displayed on the pump.
<p>Max Fill reached</p> <p>4X.X U. Remove reservoir and select Rewind to restart New Reservoir procedure.</p>	Alarm	<p>You have exceeded the number of units expected to fill the tubing. By now, insulin should be at the end of the tubing.</p>	<ul style="list-style-type: none"> • Remove the reservoir. • Check if you still have insulin in the reservoir. If you do, you can continue using the same reservoir. • Select Rewind to restart the new reservoir procedure.

Title and text	Type	Explanation	Next steps
<p>No reservoir detected</p> <p>Rewind before loading reservoir.</p>	Alarm	<p>There is no reservoir in the pump or the reservoir is not properly locked into place.</p>	<ul style="list-style-type: none"> • Select Rewind. • Ensure that your reservoir is filled with insulin. • When prompted, ensure that your reservoir is inserted and properly locked into place.
<p>Power error detected</p> <p>Delivery stopped.</p> <p>Record your settings by uploading to CareLink or write your settings on paper. See User Guide.</p>	Alarm	<p>The internal power source in your pump is unable to charge. Your pump is operating on the AA battery only.</p>	<ul style="list-style-type: none"> • Select OK to clear the alarm. • Check your BG and treat as necessary. • Record your settings as soon as possible because your AA battery may not last long. • Call your local Medtronic support representative for assistance with your pump.
<p>Power loss</p> <p>AA battery was removed for more than 10 min or power was lost. Select OK to re-enter time and date.</p>	Alarm	<p>Your pump battery has been out for more than ten minutes, and your pump has lost power. You must reset your time and date.</p>	<ul style="list-style-type: none"> • Select OK to go to the Time & Date screen. • Enter the current time, time format, and date.

Title and text	Type	Explanation	Next steps
<p>Pump error Delivery stopped. Current settings cleared. Pump restart needed. Select OK to restart and then re-enter your settings. See User Guide.</p>	Alarm	<p>Your pump encountered an error and will restart. Your pump settings will return to factory default values.</p>	<ul style="list-style-type: none"> • Select OK to restart your pump. • When the pump restarts, follow instructions on the pump display. • After restart, check settings and re-enter values as needed. • If you recently saved backup settings in Manage Settings, use Restore Settings. • If the pump was delivering a bolus or filling the cannula, check Daily History and re-evaluate your need for insulin. • If this alarm recurs frequently, write down the error code displayed on the alarm screen (you can also find it in your Alarm History) and call your local Medtronic support representative.

Title and text	Type	Explanation	Next steps
<p>Pump error Delivery stopped. Settings unchanged. Pump restart needed. Select OK to restart. See User Guide.</p>	Alarm	<p>A pump error has occurred, you need to restart your pump.</p>	<ul style="list-style-type: none"> • Select OK to restart your pump. • If the pump was delivering a bolus or filling the cannula, check Daily History and re-evaluate your need for insulin. • If this alarm recurs frequently, write down the error code displayed on the alarm screen (you can also find it in your Alarm History) and call your local Medtronic support representative.
<p>Pump error Delivery stopped. Settings unchanged. Select OK to continue. See User Guide.</p>	Alarm	<p>Your pump encountered an error but a restart is not necessary. The issue is resolved. Your settings are not changed.</p>	<ul style="list-style-type: none"> • Select OK to resume basal insulin delivery. • If the pump was delivering a bolus or filling the cannula, check Daily History and re-evaluate your need for insulin. • If this alarm recurs frequently, write down the error code displayed on the alarm screen (you can also find it in your Alarm History) and call your local Medtronic support representative.

Title and text	Type	Explanation	Next steps
<p>Pump restarted</p> <p>Delivery stopped. Settings unchanged. Select OK to continue. See User Guide.</p>	Alarm	Your pump has encountered a problem and has restarted. Your settings have not been changed.	<ul style="list-style-type: none"> • Select OK to continue. • If the pump was delivering a bolus or filling the cannula, check Daily History and re-evaluate your need for insulin. • If this alarm recurs frequently, write down the error code displayed on the alarm screen (you can also find it in your Alarm History) and call your local Medtronic support representative.
<p>Replace battery</p> <p>Battery life less than 30 minutes. To ensure insulin delivery, replace battery now.</p>	Alert	Battery life is low and will be exhausted within 30 minutes.	<ul style="list-style-type: none"> • Select OK to clear the alert. • Replace the AA battery.
<p>Replace battery now</p> <p>Delivery stopped. Battery must be replaced to resume delivery.</p>	Alarm	Insulin delivery has stopped due to low power. Battery was not replaced after the Low battery Pump alert.	Replace the battery immediately to resume basal insulin delivery.

Title and text	Type	Explanation	Next steps
<p>Reservoir estimate at 0 U</p> <p>To ensure insulin delivery, change reservoir.</p>	Alert	Your reservoir level is estimated at 0 units.	<ul style="list-style-type: none"> • Select OK to clear the alert. • Change the reservoir now.
<p>Resume bolus?</p> <p>XXX of YYY U delivered.</p> <p>Resume delivery of ZZZ U?</p>	Message	A normal bolus delivery has been interrupted because the pump battery was removed. If it is within 10 minutes since this interruption, you can resume this bolus.	<ul style="list-style-type: none"> • Check the message to see how much of the bolus was actually delivered. • To cancel remaining amount of bolus, select Cancel. • To resume remaining amount of bolus, select Resume.
<p>Resume Dual bolus?</p> <p>XX of YY U delivered.</p> <p>Resume delivery of ZZ U for XX:XX hr?</p>	Message	The Square portion of Dual Bolus delivery has been interrupted. If it is within 10 minutes since this interruption, you can resume this bolus.	<ul style="list-style-type: none"> • Check the message to see how much of the Dual Wave bolus was actually delivered. • To cancel remaining amount of bolus, select Cancel. • To resume remaining amount of bolus, select Resume.

Title and text	Type	Explanation	Next steps
<p>Resume Dual bolus?</p> <p>XX of YY U delivered. Resume delivery of ZZ U now, and AA U Square for XX:XX hr?</p>	Message	The Now portion of a Dual Wave bolus delivery has been interrupted because the pump battery was removed. If it is within 10 minutes since this interruption, you can resume this bolus.	<ul style="list-style-type: none"> • Check the message to see how much of the Dual Wave bolus was actually delivered. • To cancel remaining amount of bolus, select Cancel. • To resume remaining amount of bolus, select Resume.
<p>Resume Square bolus?</p> <p>XX of YY U delivered for XX:XX hr. Resume delivery of ZZ U for XX:XX hr?</p>	Message	The Square Wave bolus delivery was interrupted. If it is within 10 minutes since this interruption, you can resume this bolus.	<ul style="list-style-type: none"> • Check the message to see how much of the Square Wave bolus was actually delivered. • To cancel remaining amount of bolus, select Cancel. • To resume remaining amount of bolus, select Resume.
<p>Rewind required</p> <p>Delivery stopped. Rewind was required due to pump error. Select OK to continue. See User Guide.</p>	Alarm	Your pump encountered an error.	<ul style="list-style-type: none"> • Select OK to clear the alarm after the pump has completed rewinding. • Select Reservoir & Tubing from the Home screen to start the new reservoir process using a new infusion set and reservoir. For details, see <i>Setting up the reservoir and infusion set, on page 101</i>.

Title and text	Type	Explanation	Next steps
Stuck button Button pressed for more than 3 minutes.	Alarm	The pump has detected that a button has been pressed for an unusually long time.	<ul style="list-style-type: none"> • Select OK to clear the alarm. • If this alarm occurs again, call your local Medtronic support representative for assistance with your pump. <p>If you are unable to clear the alarm:</p> <ul style="list-style-type: none"> • See <i>Troubleshooting pump issues</i>, on page 237. • Consider another form of insulin, because your pump is not delivering insulin. • Check your BG and treat as necessary. • Call your local Medtronic support representative for assistance with your pump.

CGM (sensor) alarms, alerts, and messages

The following table lists the most common or serious alarms, alerts, and messages related to your SG readings, as well as the status of your transmitter and sensor. The table also explains the meaning, consequences, and the reasons why these notifications appear, and provides steps for problem resolution.

Title and text	Type	Explanation	Next steps
<p>Alert before high</p> <p>Sensor glucose approaching High Limit. Check BG.</p>	Alert	Your SG value is approaching your specified high limit.	<ul style="list-style-type: none"> • Select OK to clear the alert. • Check your BG. • Follow instructions from your healthcare professional and continue to monitor your BG.
<p>Alert before low</p> <p>Sensor glucose approaching Low Limit. Check BG.</p>	Alert	Your SG value is approaching your specified low limit.	<ul style="list-style-type: none"> • Select OK to clear the alert. • Check your BG. • Follow instructions from your healthcare professional and continue to monitor your BG.
<p>Alert on high XX.X mmol/L</p> <p>High sensor glucose. Check BG.</p>	Alert	Your SG value is at or above your specified high limit.	<ul style="list-style-type: none"> • Select OK to clear the alert. • Check your BG. • Follow instructions from your healthcare professional and continue to monitor your BG.
<p>Alert on low XX.X mmol/L</p> <p>Low sensor glucose. Check BG.</p>	Alert	Your SG value is at or below your specified low limit.	<ul style="list-style-type: none"> • Select OK to clear the alert. • Check your BG. • Follow instructions from your healthcare professional and continue to monitor your BG.
<p>Alert on low XX.X mmol/L</p> <p>Low sensor glucose. Insulin delivery suspended since XX:XX. Check BG.</p>	Alarm	Your SG value is at or below your specified low limit, and the pump has suspended insulin delivery due to a Suspend on low or Suspend before low event.	<ul style="list-style-type: none"> • Select OK to clear the alarm. • Check your BG. • Follow instructions from your healthcare professional and continue to monitor your BG.

Title and text	Type	Explanation	Next steps
<p>Basal delivery resumed</p> <p>Basal delivery resumed at XX:XX after suspend by sensor. Check BG.</p>	Message	<p>Your pump is resuming basal insulin delivery after a Suspend on low or Suspend before low event occurred.</p>	<ul style="list-style-type: none"> • Select OK to clear the message. • Check your BG. • Follow instructions from your healthcare professional and continue to monitor your BG.
<p>Basal delivery resumed</p> <p>Low settings change caused basal to be resumed at XX:XX. Check BG.</p>	Alert	<p>Your pump is resuming basal insulin delivery after a Suspend before low or a Suspend on low event occurred, because you have turned off the Suspend before low or the Suspend on low feature.</p>	<ul style="list-style-type: none"> • Select OK to clear the alert. • Check your BG. • Follow instructions from your healthcare professional and continue to monitor your BG.
<p>Basal delivery resumed</p> <p>Maximum 2 hour suspend time reached. Check BG.</p>	Alert	<p>Your pump is resuming basal insulin delivery two hours after a Suspend before low or Suspend on low event occurred.</p>	<ul style="list-style-type: none"> • Select OK to clear the alert. • Check your BG. • Follow instructions from your healthcare professional and continue to monitor your BG.

Title and text	Type	Explanation	Next steps
<p>Basal delivery resumed</p> <p>Maximum 2 hour suspend time reached. SG is still under Low limit. Check BG.</p>	Alarm	Your pump is resuming basal insulin delivery two hours after a Suspend before low or Suspend on low event occurred.	<ul style="list-style-type: none"> Your pump has resumed basal insulin delivery; however, your SG value is still at or below your low limit. Select OK to clear the alarm. Check your BG. Follow instructions from your healthcare professional and continue to monitor your BG.
<p>BG not received</p> <p>Place pump close to transmitter. Select OK to resend BG to transmitter.</p>	Alert	The transmitter was unable to receive the calibration BG meter readings from the pump.	<ul style="list-style-type: none"> Move your pump and transmitter closer together. Select OK. Your pump tries again to send your BG to your transmitter for sensor calibration.
<p>Calibrate now</p> <p>Check BG and calibrate sensor.</p>	Alert	A BG meter reading is needed immediately to calibrate your sensor so that you can continue receiving SG readings.	If you are unable to calibrate now, you can use the Snooze feature. Set the desired time, and select Snooze . If you do not calibrate before the Snooze time is up, the Calibrate now alert occurs again.

Title and text	Type	Explanation	Next steps
<p>Calibration not accepted</p> <p>Wait at least 15 minutes. Wash hands, test BG again and calibrate.</p>	Alert	<p>Your system was unable to use the BG meter readings you entered to calibrate your sensor.</p>	<ul style="list-style-type: none"> • Wash and dry hands thoroughly. See <i>Guidelines for calibrating</i>, on page 191. • Select OK to clear the alert. • After 15 minutes, enter a new BG meter reading for calibration as instructed in <i>Calibrating your sensor</i>, on page 188. If you receive a Calibration not accepted alert on your second calibration after 15 minutes, a Change sensor alert occurs. • Call your local Medtronic support representative if you have questions.
<p>Change sensor</p> <p>Insert new sensor and Start New Sensor.</p>	Alert	<p>You selected No in the Check sensor insertion message, indicating that your sensor is not fully inserted.</p>	<ul style="list-style-type: none"> • Select OK to clear the alert. • Change your sensor. For details, see your sensor user guide. • After you change your sensor, refer to <i>Starting the sensor</i>, on page 187.
<p>Change sensor</p> <p>Second calibration not accepted. Insert new sensor.</p>	Alert	<p>This alert occurs when you receive two Calibration not accepted errors in a row.</p>	<ul style="list-style-type: none"> • Select OK to clear the alert. • Change your sensor. For details, see your sensor user guide.

Title and text	Type	Explanation	Next steps
<p>Change sensor</p> <p>Sensor not working properly. Insert new sensor.</p>	Alert	This alert occurs when the transmitter diagnoses a problem with the sensor that cannot be resolved.	<ul style="list-style-type: none"> • Select OK to clear the alert. • Change your sensor. For details, see your sensor user guide.
<p>Check connection</p> <p>Ensure transmitter and sensor connection is secure, then select OK.</p>	Alert	The pump fails to detect the transmitter and is unable to receive sensor signal.	<ul style="list-style-type: none"> • Select OK to clear the alert. • If your sensor is fully inserted, select Yes. If your sensor is not fully inserted, select No. • If your sensor was not fully inserted, insert a new sensor. • If you still cannot connect your sensor, see <i>My pump cannot find the sensor signal</i>, on page 243.
<p>Lost sensor signal</p> <p>Move Pump closer to transmitter. May take 15 minutes to find signal.</p>	Alert	Transmitter signal has not been received for 30 minutes during or after initialization.	<ul style="list-style-type: none"> • Move your pump closer to your transmitter. It can take up to 15 minutes for your pump to start communicating with your transmitter. • Select OK to clear the alert.
<p>Low battery transmitter</p> <p>Recharge transmitter within 24 hours.</p>	Alert	The battery in the transmitter needs to be recharged within 24 hours.	<ul style="list-style-type: none"> • Select OK to clear the alert. • Recharge your transmitter as soon as possible.

Title and text	Type	Explanation	Next steps
<p>Medical device</p> <p>CALL FOR EMERGENCY ASSISTANCE. I have diabetes.</p>	Alarm	<p>Your pump is suspended due to low SG, and you have not responded to the alarm within 10 minutes.</p>	<ul style="list-style-type: none"> • Select Dismiss. • Immediately call for emergency assistance.
<p>No calibration occurred</p> <p>Confirm sensor signal. Calibrate by XX:XX.</p>	Alert	<p>The transmitter was unable to receive the calibration BG meter readings from the pump.</p>	<ul style="list-style-type: none"> • Select OK to clear the alert. • Check the status icons on your Home screen to ensure that your pump has a signal from your sensor. If there is no sensor signal, see <i>My pump cannot find the sensor signal</i>, on page 243. • Calibrate again by the time shown on the pump screen to ensure you continue SG monitoring.
<p>No calibration occurred</p> <p>Confirm sensor signal. Check BG again to calibrate sensor.</p>	Alert	<p>The transmitter was unable to receive the required calibration BG from the pump.</p> <p>Calibration is required by the system for SG values to resume. "Calibration required" appears on your sensor graph.</p>	<ul style="list-style-type: none"> • Select OK to clear the alert. • Take another BG meter reading and calibrate again.

Title and text	Type	Explanation	Next steps
<p>Possible signal interference</p> <p>Move away from electronic devices. May take 15 minutes to find signal.</p>	Alert	<p>There may be interference from another electronic device that is affecting the communication between your pump and transmitter.</p>	<ul style="list-style-type: none"> • Move away from other electronic devices. It can take up to 15 minutes for your pump to start communicating with your transmitter. • Select OK to clear the alert.
<p>Rise Alert</p> <p>Sensor glucose rising rapidly.</p>	Alert	<p>Your SG value has been rising as fast or faster than your preset Rise Alert Limit.</p>	<ul style="list-style-type: none"> • Select OK to clear the alert. • Monitor trend and glucose level. • Follow instructions from your healthcare professional.
<p>Sensor alert occurred</p> <p>Check Alarm History for silenced alerts.</p>	Alert	<p>Sensor alert occurred when Alert Silence is on.</p>	<ul style="list-style-type: none"> • Select OK to clear the alert. • Check the Alarm History screen to see which alerts were silenced. • Select the alert to open the Alarm Detail screen. • Take action based on the selected alert.

Title and text	Type	Explanation	Next steps
<p>Sensor connected</p> <p>If new sensor, select Start New. If not, select Reconnect.</p>	Message	<p>The transmitter has detected that you have connected a sensor. The pump needs to know if this is a new sensor or if you have reconnected your old sensor.</p>	<ul style="list-style-type: none"> • If you have connected a new sensor, select Start New Sensor. • If you have reconnected a sensor you have been using, select Reconnect Sensor. • In either case, a "Warm-up" message appears on your Home screen, and you will be prompted to enter a BG value when your sensor is ready for calibration. Your pump starts receiving your SG values again after the two-hour initialization is complete.
<p>Sensor connected</p> <p>Start new sensor.</p>	Message	<p>The pump has detected that this is a new sensor, which needs to be started and warmed-up.</p>	<p>Select Start New Sensor.</p> <p>The alert will close and a "Warm-up" message appears on the sensor graph with a progress bar.</p>
<p>Sensor expired</p> <p>Insert new sensor.</p>	Alert	<p>The sensor has reached the end of its useful life.</p>	<ul style="list-style-type: none"> • Change your sensor. For details, see your sensor user guide. • Select OK to clear the alert.
<p>Sensor signal not found</p> <p>See User Guide.</p>	Alert	<p>After multiple attempts, the pump failed to detect the transmitter and is unable to receive sensor signal.</p>	<ul style="list-style-type: none"> • Select OK to clear the alert. • If your pump still cannot find the sensor signal, call your local Medtronic support representative for assistance.

Title and text	Type	Explanation	Next steps
<p>Sensor warm-up started</p> <p>Warm-up takes up to 2 hours. You will be notified when calibration is needed.</p>	Message	<p>The sensor warm-up has begun.</p>	<p>Select OK to clear the message.</p> <p>A "Warm-up" message with a progress bar appears on the sensor graph during warm-up, which takes up to two hours.</p> <p>You will be notified when calibration is needed.</p>
<p>Sensor updating</p> <p>Do not calibrate unless notified. This could take up to 3 hours.</p>	Alert	<p>The SG value is unavailable due to a temporary situation.</p>	<ul style="list-style-type: none"> • Select OK to clear the alert. • Follow the instructions on the pump screen. You do not need to change the sensor.
<p>Suspend before low</p> <p>Delivery stopped. Sensor glucose approaching Low Limit. Check BG.</p>	Alert	<p>Your SG value is falling. Insulin delivery is suspended according to your Suspend before low setting and your SG is approaching your specified low limit.</p>	<ul style="list-style-type: none"> • Select OK to clear the alert. • Check your BG. If necessary, treat your BG as directed by your healthcare professional.
<p>Suspend on low</p> <p>Delivery stopped. Sensor glucose XX.X mmol/L. Check BG.</p>	Alarm	<p>Your SG value is at or below the low limit you specified.</p>	<ul style="list-style-type: none"> • Select OK to clear the alarm. • Check your BG. If necessary, treat your BG as directed by your healthcare professional.

Title and text	Type	Explanation	Next steps
Transmitter battery depleted Recharge transmitter now.	Alert	The battery in the transmitter needs to be recharged. SG values are not recorded or transmitted until you recharge transmitter.	<ul style="list-style-type: none"> Select OK to clear the alert. Recharge your transmitter.

CareLink software alert and message

The following table lists the most common or serious alerts and messages related to CareLink software. The table also explains the meaning, consequences, and the reasons why these notifications appear, and provides steps for problem resolution. If you get an alarm, alert, or message that is not listed, select **OK** to clear the notification and call your local Medtronic support representative.

Title and text	Type	Explanation	Next steps
CareLink uploader not found. Follow instructions on the CareLink uploader.	Message	The pump cannot find the CareLink uploader because the wrong pump code was entered, or the search timed out before the pump found the uploader.	<ul style="list-style-type: none"> Select OK to clear the message. Follow the instructions on the CareLink uploader. For details, see <i>Upload to CareLink software, on page 152</i>.

13

Troubleshooting



13 Troubleshooting

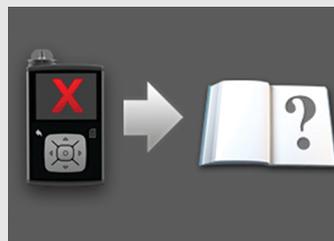
This chapter contains procedures and information to help you understand and address conditions that might occur with your pump.

For a list of alarms, alerts, and messages that may appear on your pump, see *Pump alarms, alerts, and messages, on page 206*.

Troubleshooting pump issues



WARNING: If you receive a critical error on your pump, the following screen displays and the pump sirens.



Immediately disconnect from your insulin pump and discontinue use. Contact your local Medtronic support representative for assistance.

Remember, your body still needs insulin while your pump is removed. It is important that you consult your healthcare professional to determine an alternate method of receiving insulin while your pump is removed. For more information on pump alarms, see *Pump alarms, alerts, and messages, on page 206*.

My pump buttons are stuck

During atmospheric pressure changes, your pump buttons may not work for up to 45 minutes. For example, during airplane travel your pump buttons may get stuck. This is rare. If this occurs, either wait for the problem to correct itself, or if you have a new AA battery with you:

1. Remove the battery cap.
2. Place the battery cap back onto the pump.

Your pump will check the AA battery power, and may require a new AA battery.

3. If prompted, insert a new AA battery.

If these steps do not correct the problem, contact your local Medtronic support representative for assistance.

What is a Check Settings alarm?

This alarm occurs when a condition causes your pump to reset to factory settings. The Check Settings alarm occurs after you re-enter the Startup Wizard settings.

The Check Settings alarm tells you that other settings may have been cleared or reverted to factory default values. Review any settings that you have not already set in Startup Wizard and re-enter the values, if necessary.

My pump is asking me to rewind



WARNING: Always make sure the infusion set is disconnected from your body before you rewind your pump or fill the infusion set tubing. Never insert the reservoir into the pump while the tubing is connected to your body. Doing so could result in an accidental infusion of insulin, which can cause hypoglycemia.

You must rewind your pump when you change the reservoir. Rewinding returns the piston in the reservoir compartment to its starting position. It is normal for your pump to ask you to rewind any time you remove and replace the reservoir, such as when you resolve an Insulin Flow Blocked alarm or address a problem when you load the reservoir.

I dropped my pump



CAUTION: Always inspect your pump to ensure there are no cracks before exposing your pump to water, especially if your pump has been dropped, or you suspect your pump is damaged. Water leakage can cause the pump to malfunction, and result in injury.

Do the following:

1. Check that all connections are still tightly in place.
2. Check the display, button area, and pump case for cracks or damage.
3. Check the infusion set, including the tubing connector and tubing for cracks or damage.
4. Review the status screen, basal rates, and other pump settings.
5. Perform a self test. Press  and go to the Self Test screen:

Menu > Utilities > Self Test

For details, see *Self Test*, on page 152.

6. If the self test does not complete successfully, or if you are concerned about your pump, call your local Medtronic support representative for assistance and check your BG.

I cannot get to the Manage Settings screen

These personalized settings, under the Manage Settings screen, should be provided by your healthcare professional in your training session. If you go to Menu > Utilities > Manage Settings, a message appears telling you that the feature is not normally accessible and to consult your user guide. To access the Manage Settings screen:

1. Press  and go to the Manage Settings screen.
Menu > Utilities > Manage Settings
2. Simultaneously press and hold  and  for about two seconds until the Manage Settings screen appears.

My pump display times out too quickly

Your pump display times out after 15 seconds by default in order to conserve battery power. You can increase this setting up to three minutes. Press **❖** and go to **Menu > Utilities > Display Options**, and then adjust the Backlight setting as desired.



Note: Be aware that using a longer Backlight time causes your pump to use more battery power. When your pump battery is low, the timeout for the backlight on your pump screen is automatically reduced.

Where is my pump status screen?

1. To go to the Status screen, highlight and select the status bar at the top of your Home screen.



The Status screen appears.



2. From the Status screen, you can select the type of status information you want to view. For example, to see a quick status of your pump and recent insulin deliveries, go to Quick Status. For details, see *Status screens, on page 40*.

My pump is asking me to enter my settings

Certain pump errors can clear your settings and return them to their factory default values. This also happens if you intentionally clear your settings. Do not clear your settings unless directed to do so by your healthcare professional.

If you have saved your settings using the Save Settings option, you can restore them using the Restore Settings option. If you restore your settings, ensure the restored settings match the settings prescribed most recently by your healthcare professional.

The Startup Wizard appears automatically when your pump restarts. The wizard tells you to enter the following information. Have the following values ready when you begin:

- Time format, time, and date
- Carb unit
- Active insulin time
- Basal patterns

After you enter your pump settings, you have the option of entering the following Bolus Wizard settings:

- Carb ratio or exchange ratio
- Insulin sensitivity factor
- BG target

To enter your pump settings:

1. Select your language, and then select **Next** to go to each new screen.
2. When the Select Time Format screen appears, select a **12 Hour** or a **24 Hour** time format.
3. When the Enter Time screen appears, adjust the setting to the current time. If you are using a 12-hour clock, be sure to specify AM or PM.
4. When the Enter Date screen appears, adjust the **Year**, **Month**, and **Day** to the current date.
5. When the Select Carb Unit screen appears, select **Grams** or **Exchanges** as the unit your pump uses to display carbohydrate information.
6. When the Active Insulin Time screen appears, enter the **Duration**.

For details, see *About active insulin, on page 80*.

7. Enter the End time and the rate for your first basal rate. You can enter more basal patterns after you complete the startup wizard.

For details, see *Adding a new basal pattern, on page 51*.

After you complete your basal pattern, a screen appears for you to review your basal information.

8. A screen appears and tells you to set up the Bolus Wizard settings. Do one of the following:
 - Select **Yes** to continue to enter your settings, and then continue to the next section.
 - Select **No** if you do not want to enter your Bolus Wizard settings. A message appears to confirm the startup is complete. Select **OK** to continue to use your pump.

To enter your Bolus Wizard settings:

1. When your pump shows a list of settings for the Bolus Wizard feature, make sure you have the values you need before you continue.
2. Depending on the carb unit you set earlier, either the Carb Ratio or the Exchange Ratio screen appears. Enter your carb ratio or exchange ratio by entering the End time and the ratio. You can adjust your carb or exchange ratio at any time.

For details, see *Changing your carb or exchange ratio, on page 78*.

3. When the Sensitivity screen appears, enter your insulin sensitivity factor by entering the End time and the mmol/L per unit. You can adjust your insulin sensitivity factor at any time.

For details about entering insulin sensitivity factors, including how to set multiple time periods, see *Changing your insulin sensitivity factor, on page 78*.

4. When the BG Target screen appears, enter your BG Target range by entering the End time and your Lo (low) and Hi (high) values. You can adjust your BG Target ranges at any time.

For details, see *Changing your Bolus Wizard BG target, on page 79*.

Troubleshooting sensor issues

My pump cannot find the sensor signal

If your pump cannot find the sensor signal after 30 minutes of normal use, the Lost sensor signal alert appears. Follow the instructions on the pump screen to troubleshoot the issue, as described in the following steps:



Note: If the Alert Silence option is on and a glucose alert occurs, the notification light begins to flash and the Sensor alert occurred alert appears, but no explanatory text is shown. All silenced alerts are shown with explanatory text in the Alarm History screen.

1. Move your pump closer to your transmitter and select **OK**. It can take up to 15 minutes for your pump to find the sensor signal.

If your pump still cannot find the sensor signal, the Possible signal interference alert appears.

2. Make sure you are away from any electronic devices that might cause interference, such as cellular phones that are not paired with the MiniMed 740G System and other wireless devices, and select **OK**.

If your pump does not find the sensor signal within 15 minutes after you selected OK, the Check connection alert appears.

3. Ensure the transmitter and sensor connection is secure, and then select **OK**. The "Check sensor insertion" message appears.

4. If your sensor is fully inserted, select **Yes** and skip to step 7.

5. If your sensor is not fully inserted, select **No**. A Change sensor alert appears.

6. Select **OK** and change your sensor.

7. If you selected **Yes** and your pump still cannot find the sensor signal after 15 minutes, or if your sensor graph displays "Sensor signal not found. See User Guide," call your local Medtronic support representative for assistance.

Calibration not accepted

Calibration not accepted alert occurs when one of the following happens:

- System was unable to use the BG meter readings you entered to calibrate your sensor.

- System rejects two calibrations in a row from the same sensor.
- The transmitter was unable to receive the calibration BG meter readings from the pump due to failed sensor signal.

For details on when and how to calibrate your sensor, see *Calibrating your sensor, on page 188*.

Why does the SmartGuard suspend icon on my Home screen appear gray?

The SmartGuard suspend icon appears gray  on the Home screen when either the Suspend on low or Suspend before low feature is unavailable. The SmartGuard suspend features may be unavailable due to the following conditions:

- A suspend event has occurred recently.

After a Suspend before low or Suspend on low event occurs, there is a period of time when the suspend functionality is unavailable. This time will vary depending on whether or not you respond to the suspend event. Typically, the suspend features will be unavailable for 30 minutes after your basal insulin delivery is resumed. For details, see *When Suspend before low is unavailable, on page 168* or *When Suspend on low is unavailable, on page 171*.
- No SG values are available.

SG values may be unavailable because:

 - Sensor calibration is required.

For details on when and how to calibrate your sensor, see *Calibrating your sensor, on page 188*.
 - Your pump has lost connection to the sensor.

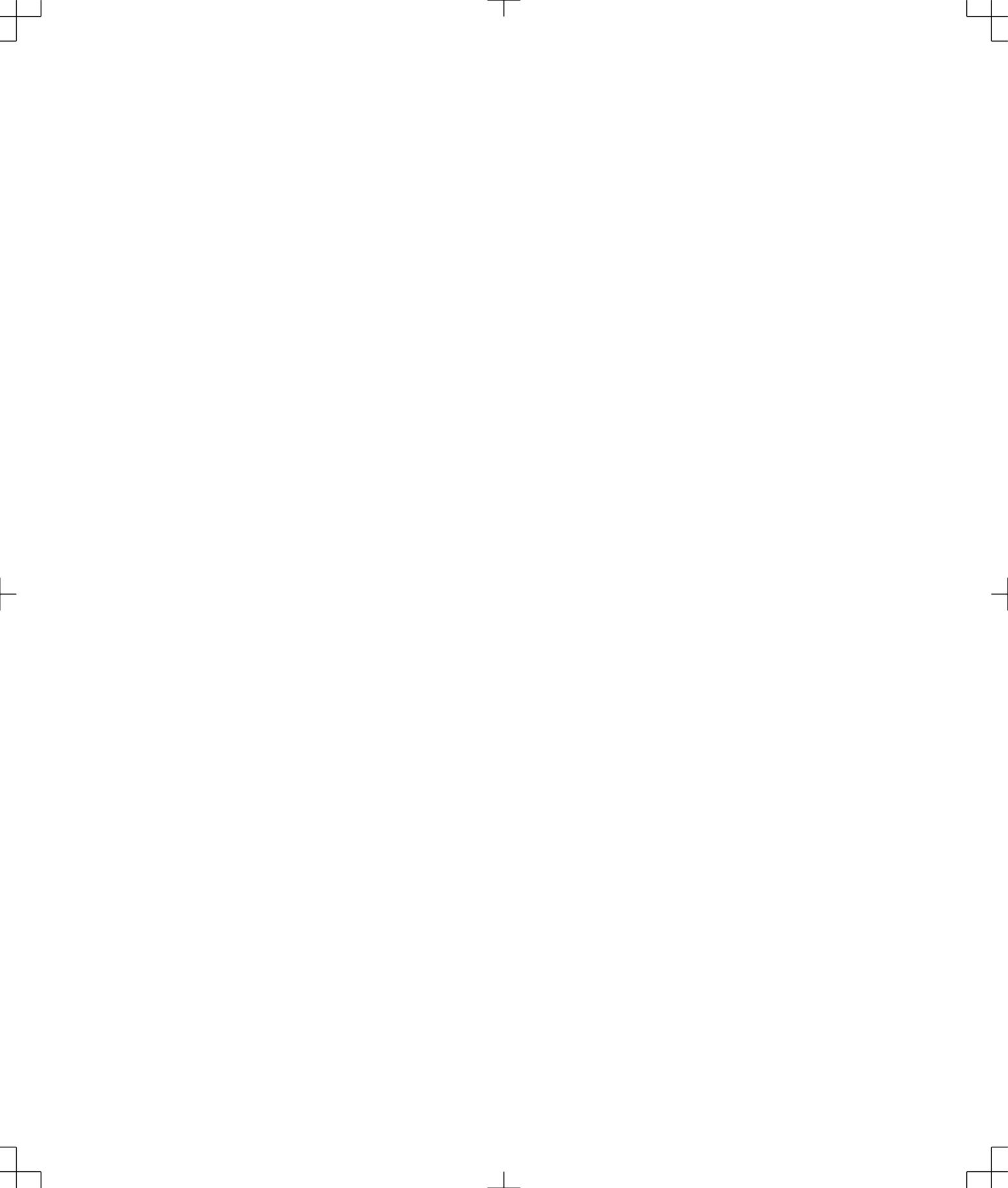
Move your pump closer to the sensor. For more details, see *My pump cannot find the sensor signal, on page 243*.
 - The SG value received was outside the expected range and was not displayed.

Select **OK** to clear the alert. If the issue continues, you may need to replace the sensor.

If the issue persists, call your local Medtronic support representative for assistance.

14

Maintenance



Maintenance

Cleaning your pump



CAUTION: Never use organic solvents, such as lighter fluid, nail polish remover, or paint thinner to clean your pump. Never use lubricants with your pump. When you clean your pump, be sure to keep the reservoir compartment dry and away from moisture. When you clean your pump with organic solvents, it can cause the pump to malfunction and result in minor injury.

Make sure you have the following supplies ready for cleaning your pump: three or four small, clean, soft cloths, a mixture of water with a mild detergent, clean water, 70% alcohol, and a few clean cotton tips and cotton balls.

To clean your pump:

1. Dampen a cloth with water mixed with a mild detergent.
2. Using the cloth, wipe the outside of the pump.
3. Dampen a clean cloth with water and wipe to remove any detergent residue.
4. Dry with a clean cloth.
5. Wipe your pump with a 70% alcohol wipe.
6. Using a dry clean cotton tip, remove any battery residue from the battery cap.
7. Using a dry clean cloth, remove any battery residue from the battery compartment opening.

Cleaning your transmitter

Always refer to your transmitter user guide for instructions on cleaning the transmitter.

Storing your pump

Storage mode lets you safely place your pump in storage while not in use.



Note: If you place your pump in storage mode, it is important to insert a new AA battery for 8 to 12 hours every six months to ensure that the internal battery does not discharge to a deep discharge. A battery that is deeply discharged may experience decreased performance.



WARNING: After placing your pump in storage mode, do not rely on active insulin tracked in the pump when making new Bolus Wizard calculations. Storage mode clears active insulin. Inaccurate Bolus Wizard calculations could result in inaccurate insulin delivery, and serious injury.

To place your pump in storage mode:

1. Remove the AA battery from the pump. For details, see *Removing the battery*, on page 29.



Note: When you remove the battery, your pump issues an Insert Battery alarm for 10 minutes or until you place your pump into storage mode.

2. Press and hold  for eight seconds or more to turn the pump power off completely.



CAUTION: Never expose the pump to temperatures below -20°C (-4°F) or above 50°C (122°F) while it is in storage without a battery. Storing your pump in temperatures outside of this range can damage your pump.

To wake your pump from storage mode:

1. Insert a new AA battery into your pump. For details, see *Inserting the battery*, on page 28.
A Pump Error message appears.
2. Select **OK**.
Your pump displays a Power Loss alarm.
3. Select **OK**.
The Time & Date screen appears.
4. Enter the current **Time**, **Time Format**, and **Date**.
5. Select **Save**.
Your pump displays an Active Insulin Cleared alert.
6. Select **OK**.
Make sure that all of your settings, such as basal rate, are set as desired. If you need to, reapply your last saved settings by using the Restore Settings option as instructed in *Restoring your settings*, on page 149.
7. You must repeat the pairing process for your transmitter and meter. For transmitter details, see *Pairing your pump and transmitter*, on page 184. For meter details, see *Pairing your pump and meter*, on page 118.

Storing your transmitter

Always refer to your transmitter user guide for instructions on storing your transmitter.

Pump disposal

Contact your local Medtronic support representative for information on the proper disposal of the MiniMed 740G insulin pump. Always follow local laws and regulations for the disposal of medical devices.

15

Product specifications and safety information



15

Product specifications and safety information

This chapter provides detailed product specifications and safety information.

Product specifications

This section provides detailed information on product specifications.

Alarm and alert escalation

The following alerts may escalate to a siren if not cleared:

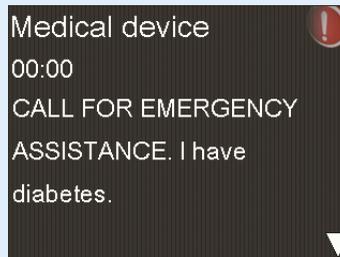
- Alert before high
- Alert before low
- Alert on high
- Alert on low
- Basal delivery resumed
- BG not received
- Calibration not accepted
- Calibrate now
- Cannot find sensor signal
- Change sensor
- Check connection
- Lost sensor signal
- No calibration occurred
- Possible signal interference
- Rise Alert
- Sensor expired
- Sensor signal not found
- Sensor updating
- Suspend before low (only if Alert before low is on)
- Transmitter battery depleted

For alerts that escalate to a siren, the pump will begin to siren if the alert is not cleared in 10 minutes. Before the siren occurs, your pump will beep, vibrate, or both, depending on your audio settings.

Minutes	Audio	Audio and vibration	Vibration
0	Audio	Audio and vibrate	Vibrate
1	Audio	Audio and vibrate	Vibrate
2	Audio	Audio and vibrate	Vibrate
3	Audio	Audio and vibrate	Vibrate
4	Audio	Audio and vibrate	Vibrate
5	Audio	Audio and vibrate	Vibrate
6	Audio and vibrate	Audio and vibrate	Audio and vibrate
7	Audio and vibrate	Audio and vibrate	Audio and vibrate
8	Audio and vibrate	Audio and vibrate	Audio and vibrate
9	Audio and vibrate	Audio and vibrate	Audio and vibrate
10	Siren and vibrate	Siren and vibrate	Siren and vibrate



Note: The Medical device alarm sirens immediately when this screen appears.



Altitude range

- Pump operating range is from 70.33 kPa (10.2 psiA) to 106.18 kPa (15.4 psiA)
- Storage range is from 49.64 kPa (7.2 psiA) to 106.18 kPa (15.4 psiA)

Audio frequency

The following table lists the various audible tones and their corresponding frequencies:

Tone name	Frequency
Alarm	1655 Hz followed by 3310 Hz
Alternate Alarm	1850 Hz
Siren (escalated alarm)	1655 Hz, followed by 3310 Hz
Alert	934 Hz
High Sensor Glucose	1312 Hz, followed by 1410 Hz, 1500 Hz, 1619 Hz, 1722 Hz
Low SG	1722 Hz, 1619 Hz, 1500 Hz, 1410 Hz, 1312 Hz
Lost SG	1485 Hz, followed by 1395 Hz, 1320 Hz, 1395 Hz
Message tone	1655 Hz
Reminder tone	934 Hz
Fill tubing tone	1850 Hz
Bolus delivery cancellation tone	1485 Hz, followed by 1655 Hz and 1485 Hz
Loading complete tone	934 Hz
Reservoir loading in progress tone	1850 Hz
Easy Bolus activation	1045 Hz
Easy Bolus step 1 increment	1175 Hz
Easy Bolus step 2 increment	1320 Hz
Easy Bolus step 3 increment	1395 Hz
Easy Bolus step 4 increment	1570 Hz
Easy Bolus step 5 increment	1760 Hz

Backlight

Type	LED (Light-emitting Diode)
Time out	15 seconds (default), 30 seconds, one minute, three minutes
Time out when battery is low	15 seconds (default), 30 seconds

Basal insulin delivery

Delivery rate range	0 to 35 units per hour or the Max Basal Rate amount, whichever is lower.
Max Basal Rate default	2 units per hour
Basal patterns	Maximum of 8 patterns. Each pattern covers a 24-hour period and can have up to 48 rates. Rates are set in 30-minute increments.
Basal pattern names	Fixed names: Basal 1, Basal 2, Basal 3, Basal 4, Basal 5, Workday, Day Off, Sick Day
Increments	<ul style="list-style-type: none">• 0.025 units per hour for basal amounts in the range 0 to 0.975 units• 0.05 units per hour for basal amounts in the range 1 to 9.95 units• 0.1 units per hour for basal amounts of 10 to 35 units

BG Target

Maximum targets	8
Range	3.3 to 13.9 mmol/L
Default value for High BG targets and Low BG targets	None

BG meter value

The most recent BG value received from the meter. If you are using an Accu-Chek Guide Link meter, this value appears on the Home screen when the Sensor feature is off. This value also appears in the Bolus Wizard screen when setting up a bolus.

Expiration	12 minutes
Range	0.6 to 33.3 mmol/L

Bolus delivery

Bolus Speed options	<ul style="list-style-type: none">• Standard: 1.5 units/minute• Quick: 15 units/minute
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Bolus programming increments	<ul style="list-style-type: none"> • 0.025 units • 0.05 units • 0.1 units
Fluid delivered/stroke	<ul style="list-style-type: none"> • 0.25 µL (microliter) for 0.025 unit pump stroke • 0.5 µL for 0.05 unit pump stroke • 2.0 µL for 0.2 unit pump stroke

Bolus Wizard feature default settings

Item	Default	Limits	Increments
Carb units	grams	-	-
Insulin to carb (or exchange) ratio	None	1–200 g/u (0.075–15.0 u/exch)	0.1 g/u for 1–9.9 g/u; 1 g/u for ratios of 10 g/u to 200 g/u (0.001 u/exch for 0.075–0.099 u/exch; 0.01 u/exch for 0.10–9.99 u/exch; 0.1 u/exch for 10–15 u/exch)
Insulin Sensitivity Factor	None	0.3–22.2 mmol/L	0.1 mmol/L
BG Target	None	3.3–13.9 mmol/L	0.1 mmol/L
Active Insulin Time	6 hours	2 to 8 hours	15 minutes

Bolus Wizard feature specifications

There are four different formulas the Bolus Wizard feature uses to estimate a bolus, depending on your current BG. The following formulas apply only when the carb units are in grams.

1. If your current BG is greater than your High BG Target, the Bolus Wizard feature subtracts active insulin from the BG correction estimate, then adds this to the food estimate to get the total bolus estimate. However, if the result of subtracting active insulin from BG correction estimate is a negative number (less than zero), the total bolus estimate is based only on the food estimate.

$$\text{total bolus estimate} = \frac{\text{(food estimate)} \quad A}{B} + \frac{\text{(correction estimate)} \quad C - D}{E} - \text{active insulin}$$

where: A = food (grams)
 B = carb ratio
 C = current BG
 D = High BG Target
 E = insulin sensitivity

Food estimate:

Carb grams ÷ Carb ratio = Units of insulin

Correction estimate:

(Current BG - High BG Target) ÷ Insulin sensitivity - Active insulin = Units of insulin

Total bolus estimate:

Food estimate + Correction estimate = Units of insulin

2. If your current BG is less than your Low BG Target, the Bolus Wizard feature adds the BG correction estimate to the food estimate to get the total bolus estimate.

$$\text{total bolus estimate} = \frac{\text{(food estimate)} \quad A}{B} + \frac{\text{(correction estimate)} \quad C - D}{E}$$

where: A = food (grams)
 B = carb ratio
 C = current BG
 D = Low BG Target
 E = insulin sensitivity

Food estimate:

Carb grams ÷ Carb ratio = Units of insulin

Correction estimate:

(Current BG - Low BG Target) ÷ Insulin sensitivity = Units of insulin

Total bolus estimate:

Food estimate + Correction estimate = Units of insulin

- If your current BG is within your High or Low BG Target, the total bolus estimate is based only on the food estimate.

$$\text{total bolus estimate} = \frac{\text{food estimate}}{\text{carb ratio}}$$

Food estimate:

Carb grams ÷ Carb ratio = Units of insulin



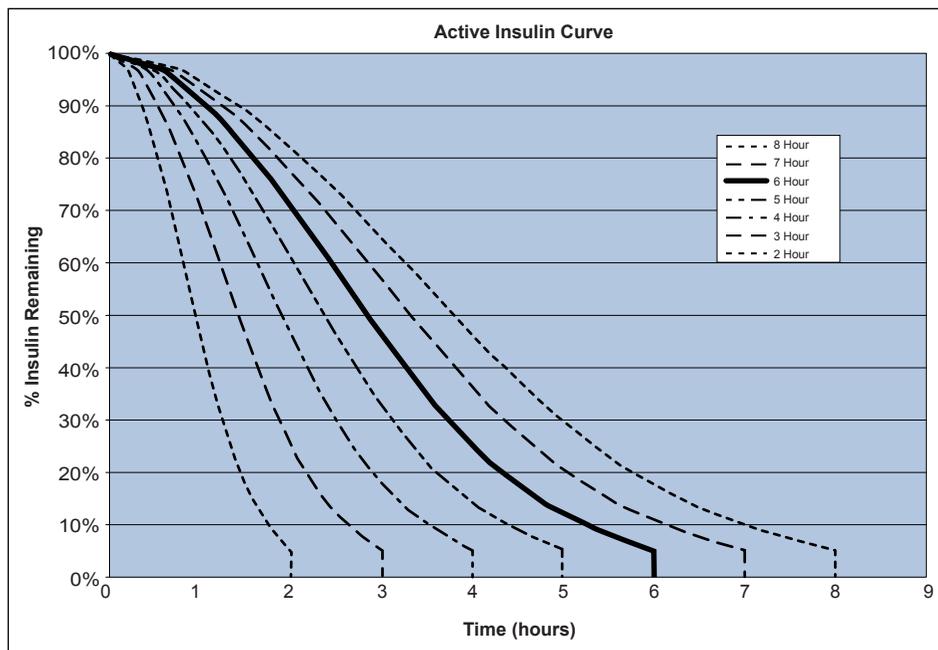
Note: When the current BG is below the Low BG Target, an active insulin amount is not considered in the Bolus Wizard feature calculations.

Total bolus estimate = Food estimate

- If you do not enter a BG, the total bolus estimate is based only on the food estimate.

Following are some notes about using the Bolus Wizard feature:

- If a Dual Wave bolus is less than the estimate due to the Max Bolus limit or a change that you make, the Square portion is reduced first.
- Based on the Active Insulin Time setting you choose, your pump keeps track of how much insulin is still active in your body. This is shown as Active Insulin or Act. Insulin on the Home screen, Bolus screen, Manual Bolus screen, Preset Bolus, and Daily History screens. This prevents stacking of insulin, and lowers the chances of hypoglycemia.
- The Bolus Wizard feature may utilize your current BG measurement, carbohydrate consumption, and active insulin to calculate your estimated bolus.
- The following Active Insulin Curve represents how long a bolus of insulin lowers your glucose after the bolus is given. The percentage of insulin remaining lowers at varying rates depending on how long the insulin is active in your body.



Graph adapted from Mudaliar and colleagues, Diabetes Care, Volume 22, Number 9, Sept. 1999, page 1501.

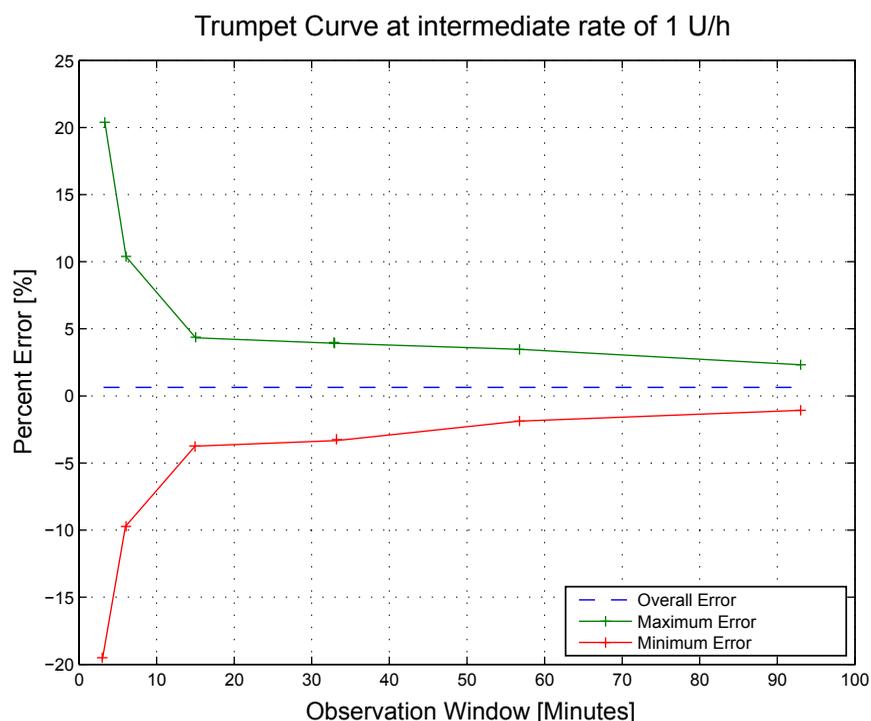
Carb ratios

Maximum ratio settings	Range
8	1 to 200 grams/unit
	0.075 to 15 units/exch

Delivery accuracy

- For a basal rate of 1.0 U/h, the delivery accuracy is $\pm 5\%$.
For a basal rate of 0.025 U/h, the delivery accuracy is $\pm 10\%$.
Delivery accuracy for bolus volumes < 0.1 unit is $\pm 20\%$ and delivery accuracy for bolus volumes ≥ 0.1 unit is $\pm 5\%$.
- All Normal boluses are delivered within 16 minutes, 41 seconds ± 3 seconds at Standard rate (25 units, at 1.5 units per minute), and within 1 minute, 41 seconds ± 3 seconds at Quick rate (25 units, at 15 units per minute).

- During delivery, the maximum infusion pressure generated and the occlusion threshold pressure using a 3.0-mL reservoir is 90.67 kPa (13.15 psi). The average resulting bolus volume generated upon clearing the occlusion is 0.0112 mL (equivalent to 1.12 units of U-100 insulin).
- The following image is a representative delivery accuracy curve. The Trumpet Curve represents the maximum percentage change from the expected insulin dosage for a given time interval, known as the observation window, during the infusion of insulin. The upper curve corresponds to positive changes, and the lower curve corresponds to negative changes.



Easy Bolus feature

The Easy Bolus feature lets the user set up and deliver a Normal Bolus when the pump is in Sleep Mode. This is done using \wedge and with the help of audio and vibration cues.

Audio mode range	0 to 20 increments or Max Bolus limit, whichever comes first
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Vibrate mode range	0 to 20 increments or Max Bolus limit, whichever comes first
Default step size	0.1 unit
Adjustable step size	0.1 to 2 units per increment up to Max Bolus limit

Environmental conditions

The MiniMed 740G insulin pump system is designed to withstand most conditions encountered in your daily life. For more details about environmental conditions, such as exposure to magnetic fields and radiation, waterproof capabilities, and extreme temperatures, see *User safety, on page 6*.

- Pump storage temperature range without a AA battery is from -20°C (-4°F) to 50°C (122°F).
- Pump operating temperature range is from 5°C (41°F) to 40°C (104°F).
- Operating air pressure range is from 700 hPa (10.2 psi) to 1060 hPa (15.4 psi).
- Storage air pressure range is from 496.4 hPa (7.2 psi) to 1060 hPa (15.4 psi).
- Relative humidity (RH) range during operation is from 20% to 90%.
- RH range during storage is from 5% to 95%.

Essential performance

The pump will maintain the following functionalities to avoid under-infusion and over-infusion:

- Delivery accuracy
- Occlusion detection
- Empty reservoir detection
- Detection of power loss
- Pump therapy status–UI component: LCD
- Notification annunciation and display–UI components: piezo-electric speaker, LCD–applies to all features above

Filling the infusion set and cannula

- The cannula can be filled from 0.025 units to 5.1 units, in increments of 0.025 units.

- The standard fill rate is 1.5 units per minute.
The quick fill rate is 15 units per minute.
- When filling the tubing, a warning occurs at 30 units. A second warning occurs at 40 units indicating that the pump must be rewound.
- Insulin used to fill the infusion set is recorded in the Daily History.

Infusion pressure

The maximum infusion pressure and occlusion pressure during the fill tubing process are 172.4 kPa (25 psi).

Insulin delivery default settings

Bolus settings

Item	Default setting	Limits	Increments
Bolus Wizard feature:	Off	-	-
Easy Bolus feature:	Off	-	-
Easy Bolus step size:	0.1 U	0.1 U to 2 U	-
Bolus increment:	0.10 U	0.025 U 0.05 U 0.10 U	-
Dual/Square bolus:	Off	-	-
Max bolus:	10 U	0 to 75 U (per single bolus)	-
Bolus BG Check Reminder:	Off	0:00 to 5:00	0:30

Basal settings

Item	Default setting	Limits	Increments
Max Basal Rate	2 U/h	0–35 U/h	0.025 U for 0.025–0.975 U/h 0.05 U for 1.00–9.95 U/h 0.1 U for rates of 10.0 U/h or more
Basal Rate	0.000 U/h	0.000 U/h to Max Basal Rate setting	0.025 U for 0.025–0.975 U/h 0.05 U for 1.00–9.95 U/h 0.1 U for rates of 10.0 U/h or more
Temp Basal Type	Percent	Percent, Rate	N/A
Temp Basal Percent	100%	0–200%	5%
Temp Basal Rate	Current basal rate	0.0 U/hr to Max Basal Rate	0.025 U for 0.025–0.975 U/h 0.05 U for 1.00–9.95 U/h 0.1 U for rates of 10.0 U/h or more

Insulin sensitivity factor

Maximum settings	8
Default	None. Insulin sensitivity is set during Startup of the Bolus Wizard feature.
Range	0.3 to 22.2 mmol/L/unit

Low Reservoir reminder

The values are based on the amount shown, not actual amount.

Alert type	Alert range	Increment	Default value
Time	First reminder occurs at 2 to 24 hours. Second reminder occurs one hour before the reservoir is empty. The second reminder is automatic and cannot be changed by the user.	30 min	8 hours
Units	First reminder occurs at 5 to 50 units. Second reminder occurs at 50 percent of the remaining specified amount. The second reminder is automatic and cannot be changed by the user.	1 unit	20 units

Max bolus

Range	0 to 75 units
Default	10 units

Normal bolus

Range is 0.025 to 75 units of insulin, and limited by the Max Bolus setting.

Occlusion detection

When occlusion is detected, the Insulin flow blocked alarm occurs. The occlusion alarm is triggered by an average of 2.23 units of missed insulin (standard bolus) or 1.97 units of missed insulin (quick bolus). The MiniMed 740G insulin pump is intended for use with U-100 insulin. This table shows occlusion detection for four different situations when using U-100 insulin.

Rate	Minimum time before alarm	Average time before alarm	Maximum time before alarm
bolus delivery (10 units at standard speed)	71 seconds	95 seconds	136 seconds
bolus delivery (10 units at quick speed)	9 seconds	10 seconds	14 seconds
basal delivery (1.0 u/h)	2.00 hours	2.50 hours	3.80 hours
basal delivery (0.025 u/h)	123.38 hours	142.03 hours	178.33 hours



Note: Certain factors, such as ambient temperature changes or the presence of air in the infusion set or the reservoir, can delay an occlusion alarm.

Percent temp basal rate

The default value is 100 percent of basal programming. For example, if you program six units of basal per day, the default temp basal rate will be six units per day.

Range	0 to 200%
Default	100% of basal programming
Increment	5%

Program safety checks

A single fault condition will cause the pump to suspend insulin delivery. Maximum infusion with a single fault condition is 0.2 units.

Pump dimensions

The pump dimensions in inches will be no greater than 3.78 length x 2.11 width x 0.96 depth.

The pump dimensions in centimeters will be no greater than 9.60 length x 5.36 width x 2.44 depth.

Pump memory

User settings and pump history are stored in non-volatile memory which will retain data. The memory size will hold 90 days of pump history before it becomes full and has to be written over. The viewable history on the pump is 30 days. This information can be accessed on the History screen.

Pump weight

The mass of the insulin pump without battery and consumables is less than 106 grams.

Sensor default settings

High sensor settings

Item	Default setting	Limits	Increments
High SG alert limit	13.8 mmol/L	5.6 to 22.2 mmol/L	0.2 mmol/L
Alert before high	Off	-	-
Alert on high	Off	-	-
Time before high	15 minutes	5 to 30 minutes	5 minutes
Rise Alert	Off	-	-
Rise Limit	Two up arrows	<ul style="list-style-type: none"> • 1 up arrow (0.056 mmol/L/min) • 2 up arrows (0.111 mmol/L/min) • 3 up arrows (0.167 mmol/L/min) • Custom limit (0.050 to 0.275 mmol/L/min) 	
High Snooze	1 hour	5 minutes to 3 hours	5 minutes

Low sensor settings

Item	Default setting	Limits	Increments
Low SG alert limit	3.4 mmol/L	2.8 to 5.0 mmol/L	0.2 mmol/L
Suspend before low	Off	-	-
Suspend on low	Off	-	-
Alert before low	Off	-	-
Alert on low	Off	-	-
Low Snooze	20 minutes	5 minutes to 1 hour	5 minutes

Low sensor settings

Item	Default setting	Limits	Increments
Resume basal alert	Off	-	-

Wireless communication

The MiniMed 740G insulin pump communicates using smart device connectivity.

Operating frequency/ Modulation type(s)	2.4 GHz band, GFSK
Effective radiated power (ERP)	1.48 mW (1.69 dBm)
Effective isotropic radiated power (EIRP)	2.42 mW (3.83 dBm)

IEC60601-1-2:4th Edition notice

IEC60601-1-2:4th Edition; Special EMC Precautions for Medical Electrical Equipment

1. Special Precautions regarding Electromagnetic Compatibility (EMC): This body worn device is intended to be operated within a reasonable residential, domestic, public or work environment, where common levels of radiated "E" (V/m) or "H" fields (A/m) exist; such as cellular phones that are not paired with the MiniMed 740G System, Wi-Fi networks, Bluetooth wireless technology, electric can openers, microwave and induction ovens. This device generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the provided instructions, may cause harmful interference to radio communications.
2. Portable and mobile RF communications equipment can affect Medical Electrical Equipment as well. If you encounter RF interference from a mobile or stationary RF transmitter, move away from the RF transmitter that is causing the interference.

IEC60601-1-2:4th Edition; 5.2.1.1

The MiniMed 740G insulin pump should not be used adjacent to other electrical equipment. If adjacent use becomes necessary, the MiniMed 740G insulin pump should be observed to verify normal system operation.

Guidance and manufacturer's declaration

Guidance and Manufacturer's Declaration - Electromagnetic Emissions		
The MiniMed 740G insulin pump is intended for use in the electromagnetic environment specified below. The customer or the user of the MiniMed 740G insulin pump should make sure that it is used in such an environment.		
Emissions Test	Compliance	Electromagnetic Environment - Guidance
RF emissions Test: 47 CFR Part 15, Subpart C Section 15.247/FCC Part 15 Subpart B Section 15.109	<ul style="list-style-type: none">• 6 dB and 99% Bandwidths: Complies• Maximum Output Power: Complies• TX Spurious Emissions: Complies• Power Spectral Density: Complies• Radiated Emission at Band Edge: Complies	The MiniMed 740G insulin pump must emit electromagnetic energy in order to perform its intended function. Nearby electronic equipment may be affected.
Harmonic emissions IEC 61000-3-2	Not applicable	
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Not applicable	

Guidance and Manufacturer's Declaration - Electromagnetic Emissions

RF emissions CISPR 11 (2009)+A1	Complies Group 1 Class B	The MiniMed 740G insulin pump is suitable for use in aircraft and in all establishments, including domestic and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
RTCA DO 160G (2010) 20.5 and 21.5	Complies	

Guidance and Manufacturer's Declaration - Electromagnetic Immunity			
The MiniMed 740G insulin pump is intended for use in the electromagnetic environment specified below. The customer or the user of the MiniMed 740G insulin pump 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, 60601-1-2	±8 kV contact ±2, 4, 8, 15 kV air	±8 kV contact ±2, 4, 8, 15 kV air	For use in a typical domestic, commercial, or hospital environment.
Conducted disturbances induced by RF fields	3 Vrms 150 kHz to 80 MHz 6 Vrms ISM bands between 150 kHz to 80 MHz	Not applicable	Requirement does not apply to this battery powered device.
Electrical fast transient/burst IEC 61000-4-4	±2 kV 100 kHz repetition frequency	Not applicable	Requirement does not apply to this battery powered device.
Surge IEC 61000-4-5	Line to Line: ±0.5 kV, ±1 kV Line to Ground: ±0.5 kV, ±1 kV, ±2 kV	Not applicable	Requirement does not apply to this battery powered device.

Guidance and Manufacturer's Declaration - Electromagnetic Immunity

<p>Voltage dips, short interruptions, and voltage variations on power supply lines</p> <p>IEC 61000-4-11</p>	<p>0% U_T; 0.5 cycle (at 0°, 45°, 90°, 135°, 180°, 225°, 270°, and 315°)</p> <p>0% U_T; 1 cycle (at 0°)</p> <p>70% for 25/30 cycles (at 0°)</p> <p>0% for 250/300 cycles</p>	<p>Not applicable</p>	<p>Requirement does not apply to this battery powered device.</p>
<p>Power frequency (50/60 Hz) electromagnetic field</p> <p>IEC 61000-4-8, IEC 60601-1-2</p>	<p>30 A/m (continuous field at 60 seconds)</p>	<p>30 A/m 400 A/m per IEC 60601-2-24: 1998</p>	<p>Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.</p>
<p>Proximity fields from RF wireless communications equipment</p> <p>IEC 61000-4-3</p>	<p>IEC 60601-1-2:2014, Table 9</p>	<p>IEC 60601-1-2:2014, Table 9</p>	<p>For use in a typical domestic, commercial, or hospital environment.</p>

Note: U_T is the a.c. mains voltage prior to application of the test level.

Guidance and Manufacturer's Declaration - Electromagnetic Immunity

The MiniMed 740G insulin pump is intended for use in the electromagnetic environment specified below. The customer or user of the MiniMed 740G insulin pump should assure that it is used in such an electromagnetic environment.

Immunity Test	IEC 60601 Test Level	Compliance Level	Electromagnetic Environment Guidance
Radiated RF IEC 61000-4-3 IEC 60601-1-2	10 V/m 80 MHz to 2.7 GHz 80% AM at 1 kHz	10 V/m 80 MHz to 2.7 GHz 80% AM at 1 kHz	<p>Portable and mobile RF communications equipment should be used no closer to any part of the MiniMed 740G insulin pump, including cables, than the recommended separation distance of 30 cm (12 inches).</p> <p>Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, should be less than the compliance level in each frequency range.</p> <p>Interference may occur in the vicinity of equipment marked with the following symbol:</p> 

Icon table

The following icons may appear on the MiniMed 740G System components and packaging.

Follow instructions for use	
Manufacturer	
Date of manufacture	
Use by	
One per container/package	(1X)
Recycle: Electronic Equipment	
Catalogue number	REF
Serial number	SN
Configuration or unique version identifier	CONF
Storage temperature range	
Storage humidity range	
Magnetic Resonance (MR) Unsafe: keep away from magnetic resonance imaging (MRI) equipment	
Type BF Device (protection from electrical shock)	
Identification number for global radio frequency certification	RF
Non-ionizing electromagnetic radiation	
Pump: Protected against the effects of continuous immersion in water (3.6 meters or 12 feet for 24 hours).	IPX8

Conformité Européenne (European Conformity). This symbol means that the device fully complies with applicable European Union Acts.

CE 0459

■ Appendix A: Open Source Software disclosure





Open Source Software disclosure

Open Source Software disclosure

This document identifies the Open Source Software that may be separately called, executed, linked, affiliated, or otherwise utilized by this product.

Such Open Source Software is licensed to users subject to the terms and conditions of the separate software license agreement for such Open Source Software.

Use of the Open Source Software by you shall be governed entirely by the terms and conditions of such license.

The source and object code, and applicable license for any Open Source Software can be obtained at the following site(s):

- LZ4-compression library (v1.9.1): <http://www.lz4.org>
- SWIG (v3.0.12): <http://www.swig.org>
- FNV-1 hash algorithm (v5.1): <http://www.isthe.com/chongo/tech/comp/fnv/> and <http://www.isthe.com/chongo/src/fnv/fnv64.c>
- CRC32 algorithm: <https://opensource.apple.com/source/xnu/xnu-792.13.8/bsd/libkern/crc32.c>

Glossary





Glossary

active insulin	Bolus insulin that has been delivered by the pump and is still working to lower your BG levels.
active insulin adjustment	The amount of insulin that is subtracted from your BG correction bolus to account for the active insulin that is tracked by the Bolus Wizard feature.
Active Insulin Time	A Bolus Wizard setting that lets you set the length of time that bolus insulin is tracked as active insulin.
Activity Guard	An attachment that can be used to ensure that the reservoir stays secure during activity, or when the pump is worn by a child.
alarm	An audible beep or vibration with a message to inform you that the pump is no longer delivering insulin. Alarms require immediate action.
Alarm History	A feature that stores information about recent alarms and alerts.
alert	An audible beep or vibration with a message to inform you of a situation that may require your attention.
Alert before high	An alert that occurs when you are approaching your high limit.
Alert before low	An alert that occurs when you are approaching your low limit.
Alert Limits	The values that you set to determine when low and high glucose alerts are triggered.

Alert on high	An alert that occurs when your SG value reaches or rises above your high limit.
Alert on low	An alert that occurs when your SG value reaches or falls below your low limit.
Auto Suspend	An alarm that you set to suspend insulin delivery and trigger an alarm if no buttons are pressed for a specified period of time. Clearing the alarm resumes basal insulin delivery.
Awake mode	A state in which the pump screen is on. Unless you are actively using another screen, your Home screen appears.
basal insulin	Insulin that is continuously delivered by the pump to meet your individual insulin needs between meals and during sleep.
basal pattern	A set of one or more basal rates that covers a 24-hour period.
basal rate	The amount of continuous basal insulin that you program your pump to automatically deliver per hour.
BG	Abbreviation for blood glucose. See <i>blood glucose (BG)</i> .
BG meter	A device that measures glucose levels in the blood.
BG Targets	The high and low values to which your BG is corrected when using the Bolus Wizard feature.
Block Mode	A feature that restricts the ability to change all settings. You can still perform certain functions, such as suspending insulin delivery, reviewing history, testing your pump, or clearing alarms and alerts.
blood glucose (BG)	Glucose that is present in the blood, commonly measured by a BG meter.
Bolus BG Check reminder	A reminder that you set just after you program a bolus. The reminder tells you to check your BG when the time period that you specified has passed.
bolus insulin	Insulin used to cover an expected rise in BG levels due to carbohydrates, or to lower a high BG value down to your target range.

Bolus Speed	A feature that lets you choose the speed at which your device delivers bolus insulin.
Bolus Wizard feature	A feature that uses your individual Bolus Wizard settings to calculate an estimated bolus amount based on the BG values and carbs that you enter. These settings include Carb Ratio, Insulin Sensitivity Factor, BG Target range, and Active Insulin Time.
calibrate	The process of using a meter BG reading to calculate SG values.
Calibration reminder	Set the Calibration reminder to notify you when your next calibration is due.
cannula	Short, thin, and flexible tube placed in the tissue below the skin. Insulin is delivered through the cannula into the body.
carb ratio	The number of grams of carbohydrates covered by one unit of insulin. The carb ratio is used to calculate bolus amounts.
carb unit	The unit of measure for carbohydrates, either grams (g) or exchanges (exch).
CGM	Abbreviation for continuous glucose monitoring. See <i>continuous glucose monitoring (CGM)</i> .
continuous glucose monitoring (CGM)	A monitoring tool that uses a glucose sensor placed below the skin to continuously measure the amount of glucose in your interstitial fluid.
correction bolus	Insulin used to lower a high BG value down to your target range.
Daily History	A feature that displays the actions that you performed using your device.
diabetic ketoacidosis (DKA)	A serious condition that occurs when the insulin levels are low, BG levels are elevated, and the body uses fat for energy. This process produces ketones which upset the body's acid-base balance, leading to a potentially life threatening situation.

Dual Wave bolus	A type of bolus that provides a dose of insulin delivered as a combination of a Normal Bolus followed by a Square Wave bolus.
Easy Bolus feature	A feature that lets you deliver a Normal Bolus in preset increments using only audio or vibrate confirmation.
Event Marker	A feature that lets you record events, such as BG readings, injections, carbohydrates, and exercise.
exchange ratio	The number of insulin units that are needed to cover 1 carbohydrate exchange. The exchange ratio is based on your individual needs and is used to calculate bolus amounts.
food bolus	A dose of insulin you give to cover an expected rise in glucose levels from carbohydrates.
High limit	The value you set to determine when the pump will alert you of a high SG condition.
infusion set	Tubing that connects to the reservoir on one end, and has a needle or cannula on the other end, that you insert into your body. Insulin travels from the pump through the infusion set into your body.
infusion site	The location on the body where the infusion set is inserted.
insulin sensitivity factor	The amount that BG is reduced by one unit of insulin. The insulin sensitivity factor is used to calculate correction bolus amounts.
interstitial fluid	The fluid that surrounds the cells in the body.
ISIG	The signal created by the sensor that is used to calculate your SG value. Typically used by Medtronic technical support representatives when troubleshooting.
lock	A pump feature that prevents accidental button presses.
Low limit	The value you set to determine when the pump will alert you of a low SG condition, and also used for determining if insulin delivery should be suspended.

Manual Bolus	A feature that lets you enter and deliver a dose of insulin in the amount that you have determined is necessary.
Max Basal Rate	A feature that lets you set the maximum amount of basal insulin that can be delivered per hour.
Max Bolus	A feature that lets you set the maximum bolus amount that can be delivered in one dose.
meter	A term for any BG meter.
Missed Meal Bolus reminder	A reminder that a bolus was not delivered during time periods that you specify, often set around your meal times.
Normal Bolus	A type of bolus that provides an entire dose of insulin immediately.
notifications	All notifications are designed to get your attention and convey different types of information. They include alarms, alerts, reminders, and messages.
occlusion	A blockage or crimp of the cannula or tubing that prevents proper insulin flow.
piston	The part of the insulin pump that engages the reservoir and moves insulin through the tubing.
Power save mode	A state in which your pump is fully functional, but the screen goes dark to save power. You can set how long it takes for your screen to enter power save mode with the Backlight setting.
Preset Bolus	A feature that lets you set up and save a bolus for specific meals or snacks that you frequently eat or drink.
Preset Temp Basal	A feature that lets you set up and save temporary basal rates for repeated use.
reminder	A type of notification that you can set to help you remember to do something.
reservoir	The small container that you fill with insulin and insert into your delivery device.
Resume basal alert	An alert that can be set to occur when your pump has automatically resumed basal insulin delivery after a

Suspend before low or Suspend on low event because your SG values have met the necessary criteria. This alert always occurs if basal insulin delivery has resumed because the two-hour maximum suspend time has elapsed.

Rewind	A feature used when you change a reservoir. It returns the piston to its start position and lets a new reservoir be placed into the pump.
Rise Alert	An alert that tells you if your SG value is rising rapidly.
sensitivity	See <i>insulin sensitivity factor</i> .
sensor (glucose sensor)	The small part of the continuous glucose monitoring system that you insert just below your skin to measure glucose levels in your interstitial fluid.
sensor glucose (SG)	Glucose that is present in the interstitial fluid and is measured by a glucose sensor.
Set Change reminder	A reminder that you can set to change your infusion set.
SG	Abbreviation for sensor glucose. See <i>sensor glucose (SG)</i> .
Sleep mode	A state in which your pump is fully functional, but the screen is dark. Your pump automatically enters sleep mode when you have not pressed any buttons for about two minutes.
SmartGuard suspend	SmartGuard suspend features include Suspend before low and Suspend on low.
SmartGuard technology	A feature that can automatically stop and resume insulin delivery based on your SG values and low limit.
Square Wave bolus	A bolus delivered evenly over a specified time period.
Suspend before low	A feature that suspends insulin delivery when the sensor predicts the SG value is approaching your low limit.
Suspend Delivery	This feature stops all insulin delivery until you resume it. Only the basal insulin restarts when delivery is resumed.
Suspend on low	A feature that suspends insulin delivery when your SG value reaches or falls below your low limit.

Temp Basal rate (temporary basal rate)	A feature that lets you temporarily increase or decrease your current basal rate for a duration of time that you specify.
transfer guard	The plastic piece that comes attached to the reservoir. It is used to connect the reservoir to the insulin vial while the reservoir fills with insulin.
transmitter	A device that connects to a glucose sensor. The transmitter collects data measured by the sensor and wirelessly sends this data to monitoring devices.





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