MINIMED™ 740G SYSTEM USER GUIDE



Medtronic







MiniMed[™] 740G **SYSTEM USER GUIDE**

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Glossary

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Before you begin



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	
Χ	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 reenter 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.

Туре	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.



First steps



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 ∧ or ∨ buttons.
Select an item on a screen or menu.	Press the \land , \lor , \lt , or \gt buttons to select the desired item, and then press the $©$ button.
Enter a value into a field.	Press the \land , \checkmark , \lt , or \gt buttons to select the desired field, and then press the $©$ button. The field you select flashes. Press the \land or \checkmark buttons to enter the desired value, and then press the $©$ button.
Return to the previous screen.	Press the 🥎 button.
Display the Home screen.	Press and hold the \spadesuit button to return to the Home screen.
Put the pump in sleep mode.	Press and hold the ❖ button for about two seconds. Note: ♂ reminds you that you can press and hold ❖ to put the pump into sleep mode.
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.

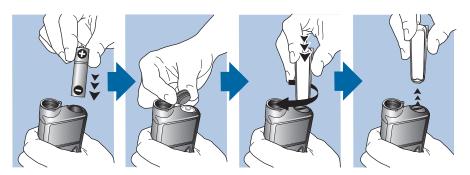
Inserting the battery

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:

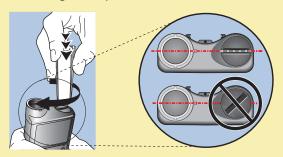
1. Insert the new or fully charged AA battery. Be sure to insert the flat end first.



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.

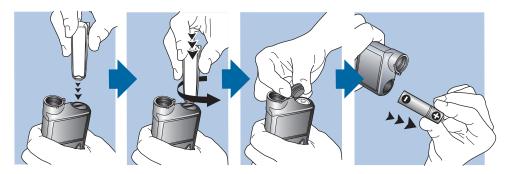
To remove the battery:

- 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 \diamondsuit or \bigcirc , 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 \spadesuit 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:

ltem	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</i> , on page 35. By selecting the status bar you can access more detailed status screens. For more information, see <i>Status screens</i> , on page 40.
Current time	The current time of day is shown. For details on setting the time, see <i>Time</i> and date, on page 155.
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</i> , on page 73.
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</i> , on page 73. For details about setting up the Preset Bolus feature, see <i>Preset bolus</i> , on page 93.
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.

lcon	Icon name	What it means
	Battery	The color and fill level of the battery icon indicate the charge level of your pump battery.
		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.
		As the battery life is used, the icon changes from solid
		green in the following order for find for findicates 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.
		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.
		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.

lcon	lcon 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.

lcon Icon name What it means Reservoir 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 Reservoir and infusion set on Setting up the reservoir and infusion set, on page 101. Approximately 85%–100% of the reservoir remains. Approximately 71%-84% of the reservoir remains. Approximately 57%–70% of the reservoir remains. Approximately 43%–56% of the reservoir remains. **Note:** Your reservoir icon only appears full if you use a full 300unit reservoir. If you use a full 180unit reservoir, you may see either the yellow reservoir icon 🔓 or the green reservoir icon 🖺 on your pump Home screen. Approximately 29%–42% of the reservoir remains. Approximately 15%–28% of the reservoir remains. Approximately 1%–14% of the reservoir remains.

The reservoir remaining amount is unknown.

lcon	Icon name	What it means
	Audio	The audio mode you are using: vibrate only $(•)$, audio only $()$, or vibrate and audio $()$,

lcon Icon name What it means



Calibration

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 Calibrating your sensor, on page 188.



Time to your next sensor calibration is more than 10 hours.



Time to your next sensor calibration is 8 to 10 hours.



Time to your next sensor calibration is 6 to 8 hours



Time to your next sensor calibration is 4 to 6



Time to your next sensor calibration is 2 to 4 hours.



Time to your next sensor calibration is less than 2 hours



Sensor calibration is required now.



Time to your next sensor calibration is unavailable. This occurs when the sensor is calibrating.



Sensor calibration has not completed. This occurs when a new sensor is connected and also after a Calibration not accepted alert.

lcon	Icon name	What it means
7	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. 7 6 5 4 3 2 1 1 If the number of days that remain until the sensor expires is unavailable, the sensor life icon appears with a question mark
Ş	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, on page 146</i> .
	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 ∧ or ∨ 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 \diamondsuit 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 \wedge or \vee 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	Your pump screen is on. Unless you are actively using another screen, your Home screen appears.
	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> .

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 <i>Display Options, on page 147</i> . 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 <i>Unlocking your pump</i> , 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.

5

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</i> , on page 57.
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 Max Basal rate, on page 49.

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

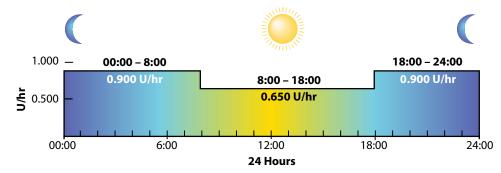
Rusty needs large amounts of insulin to control his BG levels. His new pump was delivered from the factory with a max basal rate of 2.00 units per hour, but he needs 2.80 units per hour in the early morning. Rusty plans to consult his healthcare professional about increasing his max basal rate to 3.00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

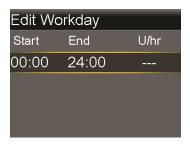
The Select Name screen appears.





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.



- 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.



- 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.



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.



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 \(\ldots \) to return to the previous screen.



Note: If you do not select **Done** and press \(\bigcup \) 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.
- 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	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.
	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.
Rate	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.

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:

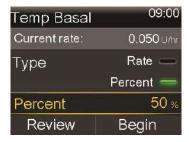
- 1. From the Home screen, select **Basal** and go to the Temp Basal screen.
 - Home screen > Basal > Temp Basal
- 2. Set the **Duration**. The duration can be set in 15-minute increments from 30 minutes to 24 hours.



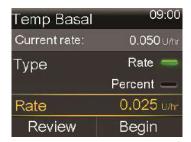
- 3. Select Next.
- 4. Select **Type** to select Percent or Rate.



- 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

- 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.
- 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

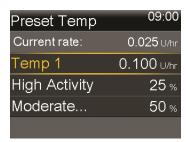
You must set up preset temp basal rates before you can use the Preset Temp feature. For more information, see *Preset temp basal rates, on page 58*.

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.





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**.



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: Do this: View your current basal From the Home screen, select Basal to go to the Basal screen: rate Home screen > Basal The active basal pattern and current basal rate appear at the top of the Basal screen. 09:00 Basal Basal 1 Current Rate: 0.025 U/hr Temp Basal Basal Patterns Insulin Settings 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. 09:00 Basal Patterns 1.2 ∪ ✓ Basal 1 1.8 u Workday

pattern.

To see the individual basal rates, select the desired basal

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.

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:

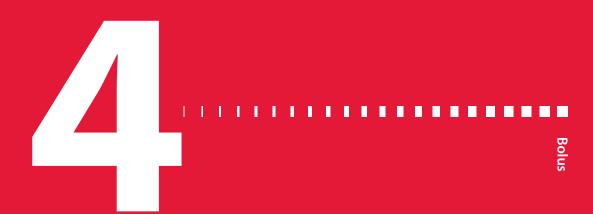
- 1. While insulin delivery is suspended, go to the Home screen.
- Select Resume.

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.





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

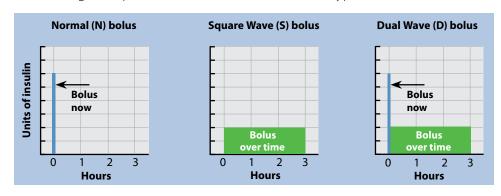
The following table provides general information about the available bolus types.

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.	 You might use a Square Wave bolus for the following reasons: 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. For details about using the Square Wave bolus feature, see Square Wave bolus, on page 85.
Dual Wave bolus	Dual Wave bolus delivers a combination of an immediate Normal bolus followed by a Square Wave bolus.	 You might use a Dual Wave bolus for the following reasons: 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. For details about using a Dual Wave bolus, see <i>Dual Wave bolus</i>, on page 87.

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	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.
		For details about using the Bolus Wizard feature, see <i>Bolus Wizard feature</i> , on page 73.
		Refer to the corresponding section to deliver one of the following bolus types:
		 Normal bolus using the Bolus Wizard feature, see Delivering a Normal bolus with the Bolus Wizard feature, on page 82.
		• 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 Delivering a Dual Wave bolus with the Bolus Wizard feature, on page 88.

Delivery method	Bolus types	How it works
Manual	Normal bolus, Square Wave bolus, Dual Wave bolus	You do your own calculation and manually enter your bolus amount.
		Refer to the corresponding section to deliver one of the following bolus types:
		Normal bolus, see Delivering a Normal bolus using Manual Bolus, on page 84
		 Square Wave bolus, see Delivering a Square Wave bolus using Manual Bolus, on page 87
		 Dual Wave bolus, see Delivering a Dual Wave Bolus using Manual Bolus, on page 90
Preset Bolus	Normal bolus, Square Wave bolus, Dual Wave bolus	You select from specific bolus settings that you define ahead of time for recurring situations.
		For details about using the Preset Bolus feature, see <i>Preset bolus, on page 93</i> .
Easy Bolus feature	Normal bolus	After the Easy Bolus feature is set up, you can deliver a Normal bolus by using the \(\shc \) button when the pump is in sleep mode.
		For details about using the Easy Bolus feature, see <i>Easy Bolus feature, on</i> page 91.

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	Max bolus provides a safety feature that limits the total amount of bolus insulin you can program for a single bolus delivery.
	in a single bolus.	To set the max bolus amount, see <i>Max bolus, on page 71</i> .
Bolus Increment	The amount of insulin in units that is increased or	You can set your increment value according to your typical bolus amounts.
	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.	To set the bolus increment, see <i>Bolus</i> increment, on page 72.
Bolus Speed	The speed that your pump delivers your	You can set your bolus insulin delivery speed to Standard or Quick.
bolus insulin.	bolus insulin.	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
- 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.
- 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.
- 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. If you count carbs: the number of carb grams that are covered by 1 unit of insulin. If you count exchanges: 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	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.
	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.
	For more information about how the Bolus Wizard feature uses your active insulin amount, see <i>About active insulin,</i> on page 80.

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.

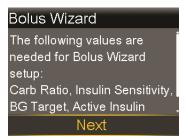
Menu > Insulin Settings > Bolus Wizard Setup

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.

3. 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.

4. 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.



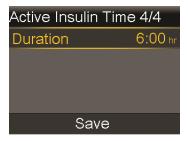
If the value you enter is outside the range of 1.1 to 5.6 mmol/L per U, a message appears asking you to confirm your setting.

5. 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.

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



7. 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

- 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.

Chapter 4

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.
- 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	• Check infusion set.
	13.9 mmol/L.	 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.	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.
		Let your healthcare professional know if you routinely receive the Max Bolus exceeded alert so they can adjust your pump settings.

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.

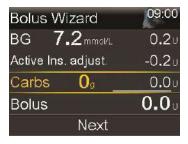
Delivering a Normal bolus with the Bolus Wizard feature

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.

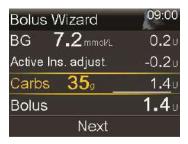


3. If you are not using a paired meter, you can select **BG** to manually enter your BG meter reading.



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 at 0.
- 5. Your calculated bolus appears in the Bolus field.



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.



6. 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.



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
- 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
- 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.
- 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.



- 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:

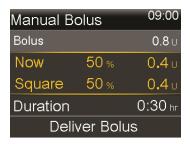
1. From the Home screen select **Bolus** and go to the Manual Bolus screen.

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.



- 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 button. Your pump must be in sleep mode to use the Easy Bolus feature.

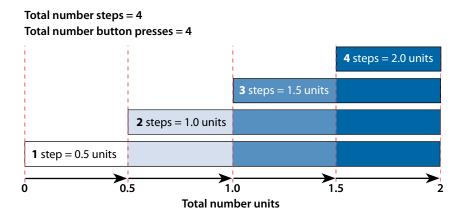
Before you use the Easy Bolus feature, you must turn on the feature and set the step size. The step size determines the number of units the bolus amount increases each time you press the \land button. Your Easy Bolus delivery is limited to 20 steps or your max bolus limit, whichever comes first.

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 \land 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 \land 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 \wedge for about one second. After your pump beeps or vibrates, release \wedge . You can now start to program your bolus with the Easy Bolus feature.



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

2. Press \(\struct \) the number of times needed to set your bolus amount.

Each time you press \land , 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 \checkmark to select the Easy Bolus values. Pressing \checkmark cancels the Easy Bolus delivery.

- 3. When you reach the desired bolus amount, press and hold ∧ 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 ∨ 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 ❖ 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.

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:

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



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

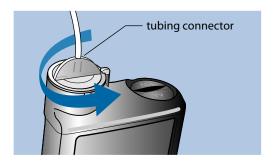
If this is the first time you are inserting a reservoir into your pump and you do not currently have a reservoir loaded, go to *Rewinding your pump*, on page 102.



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



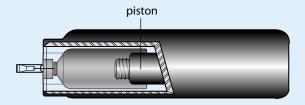
WARNING: Always make sure the infusion set is disconnected from your body before you rewind your pump or fill the infusion set tubing. Never insert the reservoir into the pump while the tubing is connected to your body. Doing so could result in an accidental infusion of insulin, which can cause low BG.

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.

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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.

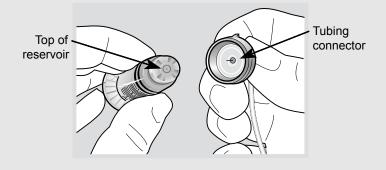


3. Follow the instructions in the next section to fill your reservoir.

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.

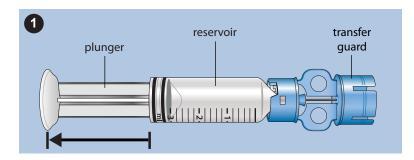




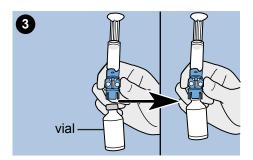
WARNING: Always allow your insulin to reach room temperature before use. Cold insulin can cause air bubbles in the reservoir and tubing, which may result in inaccurate insulin delivery.

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.



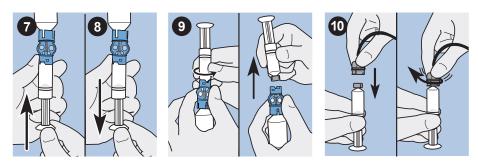
- 4. Push down on the plunger to pressurize the vial. Hold down the plunger rod.
- 5. While still holding down the plunger rod, flip the vial over so the vial is on top. Slowly pull down on the plunger to fill the reservoir.
- 6. Gently tap the side of the reservoir to make any air bubbles rise to the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







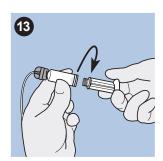
- 7. Slowly push up on the plunger just enough to remove any air bubbles from the reservoir.
- 8. Slowly pull down on the plunger to fill the reservoir to the number of units desired.
- 9. To avoid getting liquid on the top of the reservoir, flip the vial over so that it is upright. Turn the reservoir 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.



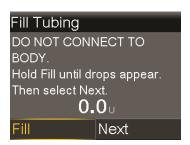
WARNING: Always make sure the infusion set is disconnected from your body before you rewind your pump or fill the infusion set tubing. Never insert the reservoir into the pump while the tubing is connected to your body. Doing so could result in an accidental infusion of insulin, which can cause low BG.



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.

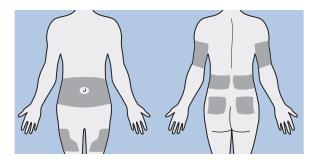
You must complete the following procedures, as described previously, before you insert the infusion set into your body:

- 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.

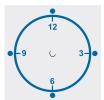




CAUTION: Always change your infusion set according to the product labeling. Using the same infusion set for an extended period of time can cause infusion set occlusion or site infection.

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.



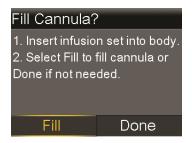
Note: If you use a steel needle infusion set, there is no cannula to fill. Select **Done** on the **Fill Cannula?** screen.



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.



- 3. 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.
- 4. 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:

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



Select Yes.

The Fill Stopped screen appears and shows amount delivered.

3. 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.



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:

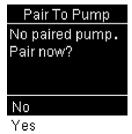
- 1. Press the **OK** button on the meter to turn on the meter.
- 2. Select **Settings**.



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

Select Pair Device.



The New Device screen appears.

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.

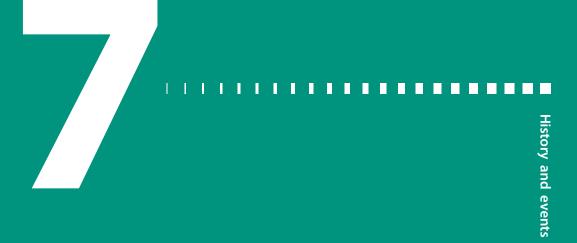
Menu > Utilities > Device Options > Manage Devices

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.





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	Insulin units devoted to basal insulin delivery.
	 Percentage of insulin devoted to basal insulin delivery.
Bolus	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	 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	 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	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	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:

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.

3. 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.

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.



Reminders

