Owner’s booklet

Get to know your system
Welcome

Thank you for choosing Animas® Vibe®. Your Animas® Vibe® System can play an integral part in the blood glucose (BG) management and continuous insulin delivery regimen that you have established with your healthcare professional.

Your Animas® Vibe® Insulin Pump provides continuous insulin delivery to help you maintain your BG targets as recommended by your healthcare professional. It delivers insulin in two ways:
1) continuous “basal” insulin delivery and 2) “bolus” insulin delivery to cover foods eaten and/or reduce a high BG level.

Your Animas® Vibe® System provides both continuous insulin delivery and continuous glucose monitoring (CGM) when used in conjunction with the optional Dexcom G4 PLATINUM Sensor and Transmitter.

This Owner’s Booklet will provide you with a thorough understanding of Animas® Vibe® and how to get the most from it. The Owner’s Booklet is designed to provide the information you are looking for when you need it, and is organized in an easy-to-find style that places the information at your fingertips. Visit www.Animas.ca to find additional information about educational programs in your area and other information about diabetes management.

You should refer to this Owner’s Booklet whether you will be using just the Animas® Vibe® Insulin Pump, or if you will be using it in combination with the Dexcom G4 PLATINUM Sensor and Transmitter. Section I in this Owner’s Booklet will instruct you on use of the Animas® Vibe® Insulin Pump as a stand alone device. Section II will instruct you on the use of the Animas® Vibe® Insulin Pump in combination with the Dexcom G4 PLATINUM Sensor and Transmitter.

Of course you may still have questions. If you do, Animas Canada Customer Care at 1-866-406-4844 will be happy to answer your call.
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**BEFORE YOU BEGIN**

**SECTION I ANIMAS® VIBE® INSULIN PUMP**

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Check with your healthcare professional regarding your individual training needs. **Do Not** attempt to connect to your pump before you have been trained on your pump.

As part of your training, your healthcare professional will assist you in making the appropriate selections for your insulin pump and continuous glucose monitoring (CGM) settings. Your insulin pump must be programmed for your own personal use as your insulin pump settings impact the calculations for insulin delivery. Be comfortable with using your pump for insulin delivery before you begin using the continuous glucose monitoring (CGM) features on your pump. See the appropriate chapters in *Section I* for the steps on setting up and using your insulin pump.

The following insulins have been tested by Animas® and found to be safe for use in the insulin cartridge of the pump: Humalog®, Novo Rapid®, and Apidra®. Before using a different insulin with this pump, check the insulin drug label and your healthcare status to make sure it can be used with your pump.

Insulin pump therapy is recommended for people with diabetes who:
- Test their BG levels four to six times per day or as recommended by their healthcare team.
- Demonstrate adequate carbohydrate counting skills.
- Maintain good diabetes self-care skills.
- See their healthcare professional regularly.
- Have adequate vision and hearing to respond to pump alerts, warnings, and alarms.

Adult supervision is required for pediatric patients using insulin pump therapy.

You should carefully read this Owner's Booklet and any inserts that come with your Animas® Vibe® Insulin Pump. You should also read any inserts that come with your Dexcom G4 PLATINUM Sensor and Transmitter.

**While reading this Owner’s Booklet, please note the following:**
- Display screens throughout the Owner’s Booklet are examples only. They should not be considered suggestions for individual programming and may not be representative of current health states.
- The Animas® Vibe® Insulin Pump uses a colour display screen, but display screens throughout the Owner’s Booklet are always shown in black and white.
- “Blood Glucose” is often abbreviated as BG in both instructional copy as well as in example display screens.
- “Insulin on Board” will often appear in an abbreviated form as IOB on the pump display as well as in example display screens.
BEFORE YOU BEGIN

• Your Animas® Vibe® System consists of an Animas® Vibe® Insulin Pump, a Dexcom G4 PLATINUM Transmitter and a Dexcom G4 PLATINUM Sensor. Your Animas® Vibe® Insulin Pump will often be referred to as simply “your pump”. Your Dexcom G4 PLATINUM Transmitter will often be referred to as “your Transmitter”. Your Dexcom G4 PLATINUM Sensor will often be referred to as “your Sensor”. Together, your Dexcom G4 PLATINUM Transmitter and Sensor will often be referred to as “your Dexcom G4 PLATINUM Sensor and Transmitter” or “your CGM”.

• “Continuous Glucose Monitoring” is often abbreviated as CGM in both instructional copy as well as in example display screens.

• “Fingerstick” appears on certain display screens and is used throughout this Owner’s Booklet to refer to a blood glucose test taken with a blood glucose meter using a blood sample obtained from the fingertip.

• All mentions of screen displays, menus, buttons, etc. in Section II refer to the Animas® Vibe® Insulin Pump unless specifically stated otherwise.

Take special note of Warnings, Cautions, Precautions, and Safety Information throughout this Owner’s Booklet, which are identified with △.

Intended Use


The Animas® Vibe® Insulin Pump is indicated for continuous subcutaneous insulin infusion for the management of insulin-requiring diabetes in adult and pediatric patients. It is intended to accept and display data from the glucose sensor.

The system is also a glucose-monitoring device indicated for detecting trends and tracking patterns in persons (age 2 and older) with diabetes. The system is intended for use by patients at home and in healthcare facilities.

The system is indicated for use as an adjunctive device to complement, not replace, information obtained from standard home glucose monitoring devices.

The system aids in the detection of episodes of hyperglycemia and hypoglycemia, facilitating both acute and long-term therapy adjustments, which may minimize these excursions. Interpretation of the Dexcom G4 PLATINUM Sensor and Transmitter results should be based on the trends and patterns seen with several sequential readings over time.
BEFORE YOU BEGIN

⚠ Important Safety Information about your Animas® Vibe® System

Carefully read all Warnings and Precautions in the Before You Begin Section for the Animas® Vibe® Insulin Pump, and the entire Section I of this Owner’s Booklet before using your Animas® Vibe® Insulin Pump. Carefully read all Contraindications, Warnings and Precautions in the Before You Begin Section for the Dexcom G4 PLATINUM Sensor and Transmitter, and the entire Section II of this Owner’s Booklet before using your Animas® Vibe® Insulin Pump in combination with the Dexcom G4 PLATINUM Sensor and Transmitter. If you do not understand something or have any questions, ask your healthcare team.

⚠ Contraindications, Warnings, and Precautions – Animas® Vibe® Insulin Pump

⚠ CONTRAINDICATIONS:
The pump is not indicated for anyone unable or unwilling to do any of the following:
- Test blood glucose levels at least 4-6 times per day or as recommended by his/her healthcare team;
- Demonstrate adequate carbohydrate counting skills;
- Maintain good diabetes self-care skills;
- See his/her healthcare team regularly;
- Adequate vision or hearing is required to recognize pump alerts.

⚠ WARNINGS:
- Check with your healthcare provider regarding your individual training needs. Do Not attempt to connect to your pump before you have been trained on your pump.
- Incorrect use of your pump, failure to follow the instructions in this Owner’s Booklet or improper/inadequate self-care and troubleshooting techniques can lead to death or serious injury. If you do not understand something or have questions, ask your healthcare team or contact Animas Canada Customer Care.
- Your pump is designed to deliver insulin reliably, but because your pump uses only rapid-acting insulin, you will not have long-acting insulin in your body. To avoid the risk of diabetic ketoacidosis (DKA) or very high BG, you must be prepared to give yourself an injection of insulin if delivery is interrupted for any reason.
- Your pump is designed and calibrated to deliver U100 insulin. Use of any insulin with lesser or greater concentration can result in serious injury or death.
- Never start the Prime/Rewind sequence on your pump while the infusion set is connected to your body. The Prime/Rewind sequence includes steps for rewinding the pump motor, loading an insulin cartridge and tightening the cartridge cap, and priming the infusion set tubing. Failure to disconnect your infusion set from your body before performing these steps can result in over delivery of insulin, and possible injury or death. If your pump sustains internal damage, the amount of unintended insulin delivery could be significant. This could result in serious injury or death from hypoglycemia.
- Your pump and pump accessories include small component pieces that could pose a choking hazard for small children. If ingested or swallowed, these small component pieces may cause internal injury or infection. For example, the batteries contain chemicals that may be especially harmful to children.
Before You Begin

△ Radiology Equipment

Your pump has been designed to operate in the presence of common sources of electrostatic and electromagnetic interference, such as store security systems. However, like all portable electronic devices, your pump should not be exposed to very strong electromagnetic fields, such as in Magnetic Resonance Imaging (MRI), Radio Frequency (RF) welders or magnets used to lift automobiles. Very strong magnetic fields, such as in an MRI, can re-magnetize the portion of the motor that regulates insulin delivery. If you plan to undergo an MRI, remove your pump and keep it outside the room during the procedure.

If you are using the Dexcom G4 PLATINUM Sensor and Transmitter with your Animas® Vibe® Insulin Pump, you will also need to remove your Dexcom G4 PLATINUM Sensor and Transmitter and leave them outside the room during the procedure. Refer to important safety information regarding MRIs in the Before You Begin Section of this Owner’s Booklet.

△ Guidelines Involving Use of the Animas® Vibe® System During Medical Procedures

△ CAUTION: Certain medical procedures involve the use of energy fields (e.g., ionizing radiation, magnetic radiation) that can damage the Animas® Vibe® System. Device users must NEVER expose the pump, Transmitter/Sensor and certain infusion sets to these types of energy fields. ALWAYS remove the pump and Transmitter/Sensor before entering the room where one of these procedures will be performed.

<table>
<thead>
<tr>
<th>Medical Procedure</th>
<th>Includes patient and/or healthcare team administering the procedure and covers pump, Transmitter/Sensor, and infusion sets.</th>
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<tr>
<td>CARDIAC CATHETERIZATION</td>
<td>• Do Not bring pump or Transmitter/Sensor into the same room where the procedure is being performed.</td>
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<td>• Teflon/plastic infusion set can remain in. Other types of infusion sets must be removed.</td>
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<tr>
<td>COLONOSCOPY</td>
<td>• Pump, infusion set and Transmitter/Sensor can remain on/in.</td>
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<tr>
<td>CT SCANS</td>
<td>• Do Not bring pump or Transmitter/Sensor into the same room where the procedure is being performed.</td>
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<tr>
<td>EKG</td>
<td>• Pump, infusion set and Transmitter/Sensor can remain on/in.</td>
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<tr>
<td>ELECTRO-CAUTERY</td>
<td>• Do Not bring pump or Transmitter/Sensor into the same room where the procedure is being performed.</td>
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<td>• Teflon/plastic infusion set can remain in. Other types of infusion sets must be removed.</td>
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<tr>
<td>LASER SURGERY</td>
<td>• Pump, infusion set and Transmitter/Sensor can remain on/in.</td>
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<td>MRI</td>
<td>- Do Not bring pump or Transmitter/Sensor into the same room where the procedure is being performed.</td>
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<td>- Teflon/plastic infusion set can remain in. Other types of infusion sets must be removed.</td>
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<tr>
<td>NUCLEAR STRESS TEST (myocardial perfusion imaging)</td>
<td>- Do Not bring pump or Transmitter/Sensor into the same room where the procedure is being performed.</td>
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<td>- Teflon/plastic infusion set can remain in. Other types of infusion sets must be removed.</td>
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<tr>
<td>PACEMAKER/AICD Reprogramming</td>
<td>- Do Not bring pump or Transmitter/Sensor into the same room where the procedure is being performed.</td>
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<td>THERAPEUTIC RADIATION/ONCOLOGY (cancer treatment radiation)</td>
<td>- Do Not bring pump or Transmitter/Sensor into the same room where the procedure is being performed.</td>
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<td>- Teflon/plastic infusion set can remain in. Other types of infusion sets must be removed.</td>
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<td>- Do Not bring pump or Transmitter/Sensor into the same room where the procedure is being performed, unless a lead apron that completely covers pump is worn during the procedure. The person administering the procedure (if they are wearing a pump) must proceed to a designated safety area during the procedure.</td>
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<td>- Teflon/plastic infusion set can remain in. Other types of infusion sets must be removed.</td>
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<td>X-RAY, BONE DENSITOMETRY</td>
<td>- Do Not bring pump or Transmitter/Sensor into the same room where the procedure is being performed, unless a lead apron that completely covers pump and Transmitter is worn during the procedure. The person administering the procedure (if they are wearing a pump or Transmitter) must proceed to a designated safety area during the procedure.</td>
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<td>- Teflon/plastic infusion set can remain in. Other types of infusion sets must be removed.</td>
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<tr>
<td>X-RAY, DENTAL</td>
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<td>X-RAY, MAMMOGRAM</td>
<td>• Do Not bring pump or Transmitter/Sensor into the same room where the procedure is being performed.</td>
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⚠️ PRECAUTIONS

• Your pump is a sealed device that should be opened ONLY by the manufacturer. If your pump seal is broken by anyone other than an authorized Animas® factory technician, the warranty is voided and your pump is no longer waterproof. If the back label on your pump is removed or damaged, the warranty is voided and your pump is no longer waterproof.

• When using your pump, if the pump is placed at a vertically higher position than the infusion site, a small amount of additional insulin infusion may occur. To minimize this condition and maintain pump delivery accuracy, the vertical distance between your pump and the infusion site should be no more than 30 centimeters (12 inches). If your pump is placed at a vertically lower position than the infusion site, this condition is eliminated.

• Occasionally check the infusion site for proper placement and leaks. Improperly placed infusion sites or leaks around the infusion site can result in under infusion.

• Occasionally check the infusion set tubing for any damage, leaks or kinks while using your pump. Damaged, leaking or kinked tubing may restrict or stop insulin delivery and result in under infusion.

• Only use Animas® 2.0 mL Cartridges (200 unit/2ml) and infusion sets with a standard Luer connector. Efficacy of pump cannot be guaranteed if cartridges other than those manufactured by Animas Corporation are used or if cartridges are used more than once.

• Always dispose of used cartridges and infusion sets following the regulations in your community. Failure to follow these guidelines may pose health hazards.

• Prior to replacing the battery cap, make sure the o-ring fits securely and is not damaged. A damaged o-ring may impact the battery contact and/or the waterproof feature of your pump. See Chapter 3 in Section I.

• Prior to inserting a cartridge into your pump, check the o-rings on the cartridge to be sure they are not damaged. Damaged cartridge o-rings can result in under or over delivery of insulin.

• Occasionally check the vents to be sure they are clear of debris. See Chapter 12 in Section I.

• Occasionally check that your pump personal settings are correct.

• Occasionally check to make sure your pump emits audible tones that are easily detectable and that the vibrate feature is working correctly. For example, audible tones should be heard and the vibration pulse felt every time you replace the battery.

• If using the download feature, keep the communication window free of obstructions and refer to the Instructions for Use included with the wireless download cable. Contact Animas Canada Customer Care for information regarding compatible diabetes management software that you can use to track, review and analyze pump data on your computer.
PRECAUTIONS (continued)

- Your pump uses battery power to notify you of alerts, warnings, and alarms. If you do not confirm the notification, your pump will continue to use battery power as the notifications repeat and progress. This will result in reduced battery life and the Replace Battery Alarm screen appearing sooner than expected.

- Your pump is designed only for Continuous Subcutaneous Insulin Infusion (CSII). It is not intended for use with any other delivery substance.

- Consult your healthcare team before using your pump to determine which programming features are appropriate for you. Some features require a greater knowledge of insulin pumping and advanced self-care skills. Additionally, some advanced programming features require that testing and fine-tuning of basic settings be completed in order to achieve the best possible results. Your healthcare team will give you specific training on programming and using your pump.

- Use of Extended Bolus, Combo Bolus, ezCarb (carb calculator), Insulin on Board and ezBG (BG correction calculator) all require input from your healthcare team. Do Not attempt to use these features until you have specific information for your treatment plan and have had specific training on each programming feature.

- Only your healthcare team can determine your Insulin to Carbohydrate (I:C) ratios, Insulin Sensitivity Factors (ISFs), BG Target ranges and duration of Insulin on Board.

- Basal rates that are too high or too low can adversely affect BG levels. Work with your healthcare team to fine-tune basal rates.

- The way your body uses insulin can be affected by many things. Contact your healthcare team about lifestyle changes such as starting/stopping your exercise program or significant weight loss/gain. Your basal rates may need to be modified.

- Do Not stop using your pump if you are ill unless instructed to do so by your healthcare provider. Even when you are sick, your body still needs insulin. See Chapter 15 in Section I.

- When you first start using the Audio Bolus feature, always look at the display screen to confirm correct programming until you are comfortable using this feature.

- Animas Corporation recommends that you have someone around you (family, friends, etc.) who understands diabetes and pump therapy, so in the event of an emergency, they can help you. Be sure they are familiar with any information given to you by your healthcare team.

Amusement Parks

Very powerful electromagnets are sometimes used on “free-fall” amusement park rides. Pumps should be removed and not taken on these “free-fall” types of rides.

High gravity forces can be experienced when riding on some roller-coasters. It is recommended that you disconnect (NOT suspend) your pump while on roller-coaster rides.

Aircraft without Cabin Pressurization

If flying in aircraft without cabin pressurization or flying in aircraft used for aerobatics or combat simulation (pressurized or not), disconnect (NOT suspend) pump.
**PRECAUTIONS (continued)**

**Before Bedtime**
- Plan infusion set changes at meals or one to two hours before bedtime. If a change is needed at bedtime, then check BG in one to two hours. Always check BG one to two hours after infusion set change.
- Always check that your cartridge has enough insulin to last through the night before going to bed. Unless otherwise recommended by your healthcare team, set the volume to high for all warnings and alarms before going to sleep.
- Always remove all air bubbles from cartridge and tubing before beginning insulin delivery. Air bubbles can compromise accuracy of delivery. Refer to the *Instructions for Use* included with your cartridge packaging.
- If you return your pump for service and a replacement pump is sent, Do Not use the replacement pump until all the settings specific to your treatment plan have been programmed.
- If you drop your pump or it has been hit against something hard, inspect it to be sure it is still working properly. Check that the display screen is working and clear, that the cartridge cap, battery cap and infusion set are properly in place. Check for leaks around the cartridge by wrapping a piece of tissue around the connection area. Cracks, chips or damage to your pump may impact the battery contact and/or the waterproof feature of your pump. Contact Animas Customer Technical Support at 1-877-937-7867 if you identify or suspect your pump has been damaged.
- Your pump is designed to operate in conditions where temperatures are between 5° C (40° F) and 40° C (104° F). If your pump is exposed to temperatures outside these parameters, extra care should be taken to protect it from extreme temperatures.
- To avoid risk of explosion, Do Not use your pump in the presence of explosive gases.
- Your pump is designed to achieve optimum performance and battery life with an Energizer® Ultimate Lithium AA battery (1.5V). Rechargeable batteries and Carbon-Zinc batteries do not have the necessary characteristics to power your pump and should not be used. Some AA lithium batteries are available with other voltages such as 3.6V or 4.0V. Do Not use these batteries. Use of anything other than a 1.5V battery could permanently damage your pump and voids its warranty.
- Do Not use household cleaners, chemicals, solvents, bleach, scouring pads or sharp instruments to clean your pump. Never put your pump in the dishwasher or use very hot water to clean it.
- Never use a hair dryer, microwave oven or baking oven to dry your pump. Use a soft towel.
BEFORE YOU BEGIN

⚠️ Contraindications, Warnings and Precautions – Dexcom G4 PLATINUM Sensor and Transmitter

⚠️ CONTRAINDICATIONS:
- The Dexcom G4 PLATINUM Sensor and Transmitter must be removed prior to Magnetic Resonance Imaging (MRI), CT scan, or diathermy treatment. The Dexcom G4 PLATINUM Sensor and Transmitter has not been tested during MRI or CT scans or with diathermy treatment, and it is unknown if there are safety or performance issues.
- Taking acetaminophen containing medications while wearing the Sensor may falsely raise your Sensor glucose readings. The level of inaccuracy depends on the amount of acetaminophen active in your body.

⚠️ WARNINGS:
- Do Not use the Dexcom G4 PLATINUM Sensor and Transmitter until after you have been trained or viewed the training materials included with your CGM System.
- The BG value from your BG meter should be used for treatment decisions, such as how much insulin you should take. The Dexcom G4 PLATINUM Sensor and Transmitter does not replace a BG meter. BG values may differ from Sensor glucose readings. The direction, rate of glucose change, and trend graph from your Dexcom G4 PLATINUM Sensor and Transmitter and displayed on your pump provide additional information to help with your diabetes management decisions.
- Symptoms of high and low glucose should not be ignored. If your Sensor glucose readings do not fit with your symptoms, you should measure your BG with a BG meter.
- Your Sensor glucose readings may be inaccurate if you calibrate less than every 12 hours.
- In a pediatric clinical study, larger differences were observed between the G4 PLATINUM Sensor and Transmitter and actual BG values compared to those differences observed in the adult clinical study. Use your BG meter for treatment decisions.
- In a pediatric clinical study a significant number of low glucose events were not detected by CGM. Do Not rely solely on CGM alerts to detect low glucose.
- Sensors may fracture on rare occasions. If a Sensor breaks and no portion of it is visible above the skin, Do Not attempt to remove it. Seek professional medical help if you have symptoms of infection or inflammation – redness, swelling or pain – at the insertion site. If you experience a broken Sensor, please report this to Animas Canada Customer Care.
- The Dexcom G4 PLATINUM Sensor and Transmitter IS NOT APPROVED FOR USE in pregnant women or persons on dialysis.
- Sensor placement IS NOT APPROVED for sites other than under the skin of the belly (abdomen) or, in the case of patients between the ages of 2 and 17, the belly or upper buttocks.
- If your Transmitter case is damaged/cracked, Do Not use it, as this could create an electrical safety hazard or malfunction.
WARNINGS: (continued)

• The Sensor and Transmitter include small parts that may pose a choking hazard. Keep the Transmitter kit box away from young children; it contains a magnet that should not be swallowed.

• Your Animas® Vibe® System will not automatically make insulin adjustments based on CGM readings. You must take a fingerstick test with your BG meter and use that BG value to make any insulin or treatment decisions. Insulin dosing decisions should not be based solely on results from the Dexcom G4 PLATINUM Sensor and Transmitter.

PRECAUTIONS:

• Before opening the Sensor package, wash your hands with soap and water and dry them to avoid contamination.

• Before inserting the Sensor, always clean the skin at the Sensor insertion location with a topical antimicrobial solution, such as isopropyl alcohol. This may help prevent infection. Do Not apply the Sensor until the cleaned area is dry so that it will stick better.

• Change the site where you place your Sensor with each insertion to allow your skin to heal.

• Avoid areas that are likely to be bumped, pushed or compressed, or areas of skin with scarring, tattoos, or irritation, as these are not ideal sites to measure glucose.

• Avoid injecting insulin or placing an insulin pump infusion set within 7.62 centimeters (3 inches) of the Sensor in case the insulin affects the Sensor glucose readings.

• The Sensor is sterile in its unopened, undamaged package. Do Not use any Sensor if its sterile package has been previously damaged or opened.

• To calibrate the Dexcom G4 PLATINUM Sensor and Transmitter, you must enter the exact BG value that your BG meter displays within 5 minutes of a carefully performed BG measurement. Entering incorrect BG values or BG values from more than 5 minutes ago could result in inaccurate Sensor glucose readings.

• The transmission range from the Transmitter to the pump is up to 3.6 meters (12 feet) without obstruction. Wireless communication does not work well through water so the range is much less if you are in a pool, bathtub, waterbed, etc.

• Sensors should be stored at temperatures between 2° C – 25° C (36° F – 77° F) for the length of the shelf life. You may store your Sensors in the refrigerator if it is within this temperature range. Sensors should not be stored in a freezer.

• It is possible that nearby devices, such as a cell phone or other wireless device, can interfere with CGM readings or alerts received by the pump. If RF communication is lost or interrupted, try increasing the distance between your pump and the interfering device to see if communication is re-established. If needed, remove or turn off the nearby device. Refer to Chapter 12 in Section II for more information on conditions that may cause RF communication problems.

NOTE:

Any changes or modifications to the Animas® Vibe® Insulin Pump or Dexcom G4 PLATINUM Sensor and Transmitter not expressly approved by Animas Corporation or Dexcom, Inc. could void the user’s authority to operate the equipment.
BEFORE YOU BEGIN

Supply Reordering
You can place orders for cartridges, infusion sets, skin prep, batteries, replacement battery caps, and many pump accessories by contacting Animas Canada Customer Care.

To place orders for Dexcom G4 PLATINUM Sensor and Transmitter supplies, contact Animas Canada Customer Care.

Emergency Kit
Keep an emergency kit with you at all times to make sure you have necessary supplies.

This kit should include but is not limited to:

• Quick-acting glucose tablets or gel
• BG monitoring supplies including meter, test strips, lancing device, lancets, meter batteries
• Blood or urine ketone testing supplies
• Rapid-acting and other insulin as recommended by your healthcare team
• Extra infusion sets and Animas® 2.0 mL Cartridges (200 unit/2ml)
• Dressing and adhesive, if used
• An extra Energizer® Ultimate Lithium AA battery (1.5V) for your pump
• An extra pump battery cap
• An extra pump cartridge cap
• Glucagon Emergency Kit®
• Emergency contact phone numbers
• A backup plan for obtaining and delivering insulin when you are unable to use your pump

Be sure to inform a family member, co-worker, and/or friend where this emergency kit is kept.
CHAPTER 1 - INSULIN PUMP OVERVIEW

Section I of this Owner’s Booklet contains information about how to use, program, and maintain your new pump. It is important to read it carefully. Even if you are an experienced pumper, keep your Owner’s Booklet handy for reference. Any reference to CGM refers to the optional Dexcom G4 PLATINUM Sensor and Transmitter that is reviewed in Section II. The optional Dexcom G4 PLATINUM Sensor and Transmitter may not be available in your country or region. Check with your local distributor regarding availability.

You have begun a new way of life with your Animas® Vibe® Insulin Pump.

Your choice to begin pump therapy is a sign that you are committed to taking excellent care of yourself. Your pump has been specially designed to help you manage your diabetes, using sophisticated safety systems.

Your pump is used for insulin therapy to help maintain your blood glucose (BG) targets as recommended by your healthcare team. You program it to deliver two ways: 1) a continuous, 24-hour “basal” rate and 2) “bolus” insulin deliveries to accommodate for immediate doses to cover foods eaten and high BG. It is important to remember that successful pump therapy is a partnership of advanced technology and responsible self-care.

Please take a moment to look at the back of your pump and write down the serial number.

My pump serial number is: ______________________________________

Technical Help

If there is anything you do not understand in the Owner’s Booklet or if you have a question or need assistance with your pump, contact Animas Customer Technical Support at 1-877-937-7867.

We understand that you may have questions and concerns when using a new product. Please do not hesitate to call for assistance!

If you are having problems with your diabetes management, please contact your healthcare team.
CHAPTER 1 - INSULIN PUMP OVERVIEW

Important Note

Do Not Remove the Factory-Installed Plastic Display Lens Protection Film.

Your pump now comes with a new factory-installed transparent plastic lens protection film covering the display lens. This protective film is highly durable and is designed to protect your pump display lens from incidental damage. **Do Not attempt to remove this film. This protective film must remain in place at all times to fully protect your pump display lens from scratches and other cosmetic damage.** This film will not protect your pump display lens from extreme abuse.

Should the pre-installed lens protection film become damaged or separate from the display, the film should be replaced. Replacement films can be purchased by contacting Animas Canada Customer Care at 1-866-406-4844.

Please note that the Animas® Vibe® Insulin Pump limited warranty does not cover damage resulting from normal wear and tear, accidents, negligence or misuse, and abuse, including scratched display lenses. We urge you to protect your pump screen from damage and use a lens protection film at all times.

Animas® Vibe® Insulin Pump Kit Contents

Your Animas® Vibe® Insulin Pump Kit includes your insulin pump and other accessories you will need to begin insulin delivery. Check the contents of your kit to make sure all items are included. If any items are missing, contact Animas Canada Customer Care.

Your Animas® Vibe® Insulin Pump Kit includes:

- a. Animas® Vibe® Insulin Pump
- b. One Energizer® Ultimate Lithium AA battery (1.5V) for your pump
- c. Low Profile Clip
- d. Owner's Booklet*
- e. Quick Reference Guide*
- f. Orientation DVD*

*not pictured
CHAPTER 1 - INSULIN PUMP OVERVIEW

Explanation of symbols
Shown below are symbols you will find on your Animas® Vibe® Insulin Pump or its packaging.

On your pump kit packaging:

- Do Not Reuse
- Fragile
- Keep Dry
- Caution (Consult Owner’s Booklet)
- “Use By” Date

Pressure Limitations
Relative Humidity Limitations
Temperature Limitations
Hazardous waste – Dispose of in accordance with local regulations
Lot Number

On the front of your pump:

- Up Arrow button
- Down Arrow button
- OK button

On the top of your pump:

- Contrast button/CGM shortcut

On the back of your pump:

- S/N Serial Number
- Manufacturer
- Date of Manufacture
- IPX8 Protected against water submersion – Pump tested to 3.6 meters (12 feet) for 24 hours
- Marking certifies that the device meets the European Council Directive 93/42/EEC

IPX8

Manufacturer

Consult Owner’s Booklet

Shock Protection Type BF Medical Equipment

Do Not wear or operate around MRI devices. Remove and leave outside MRI room before entering.
CHAPTER 2 - INTRODUCTION TO YOUR ANIMAS® VIBE® INSULIN PUMP

An insulin pump is a tool to allow you to better manage your diabetes. When connected to a properly-inserted infusion set, your pump delivers insulin at a continuous level (basal rate), 24 hours a day. You program delivery of an immediate dose (bolus) of insulin to cover food eaten or to correct high BG.

Your pump is engineered and manufactured to the highest standards of quality.

Get to Know your Animas® Vibe® Insulin Pump

Main Function Buttons
There are 4 buttons for main programming functions. The \( \uparrow \) and \( \downarrow \) buttons allow you to move through screen selections and to scroll up and down to enter values such as a bolus amount. The \( \bigcirc \) button allows you to select an item or activate a function. The Audio bolus/ezBolus™ button allows you to program a bolus using audible tones (or vibrate pulses) to confirm programming and delivery.

Programming Basics
• Use the \( \uparrow / \downarrow \) buttons to scroll to the desired selection and then press the \( \bigcirc \) button to select. If the cursor is flashing, it means your pump is in Edit Mode and by scrolling with the \( \uparrow / \downarrow \) buttons, you can edit the flashing field.
• Once you have finished editing, press the \( \bigcirc \) button to confirm your entry and to exit the Edit Mode.
• If your pump display turns off before you have had a chance to confirm your entry, that entry will not be saved. Be sure to check your edits/entries the next time you turn your pump display on.

Display Screen
All programming, operations, warnings and alarms are shown on the display screen.
CHAPTER 2 - INTRODUCTION TO YOUR ANIMAS® VIBE® INSULIN PUMP

Contrast Button/CGM Shortcut

Pressing this button adjusts the contrast of your display. There are three contrast levels: Dim, Default and Bright. To preserve battery life, your pump display will Auto-dim when a button is not pressed for half the time your display time-out is set. While in Auto-dim mode, you can restore the default contrast level you have set by pressing the button on top of your pump. Pressing a function button while in Auto-dim mode will restore the default contrast level as well as perform the function of the key. To adjust contrast during a Call Service alarm, you must use the button. See Chapter 9 in Section I.

If you are not using the Dexcom G4 PLATINUM Sensor and Transmitter with your pump, CGM functions and data will not be operational on your pump display. However, pressing the button while the pump is in sleep mode will awaken the pump to one of the CGM Trend graphs or the CGM Data screen. From any of these screens, you will need to return to the MAIN MENU screen. Press on your pump to return to the CGM Menu screen and then press again with “Main Menu” highlighted to return to the MAIN MENU screen.

If you are using the Dexcom G4 PLATINUM Sensor and Transmitter with your pump, pressing the button while the pump is in sleep mode will awaken the pump to one of the CGM Trend graphs or the CGM Data screen. See Chapter 6 in Section II.

NOTE:
• When viewing your pump display in bright sunlight, it is recommended you shade the screen or move to a shady area for best visibility.

• If your pump goes to sleep and an error has not been cleared, pressing the button will awaken the pump to the error screen. This will continue until the error condition has been cleared.

Audio Bolus/ezBolus™

This button allows you to program a bolus without looking at your pump, by using audible tones (or vibrate pulses) to confirm programming and delivery. If you choose not to activate the Audio Bolus feature, this button provides a shortcut to the Normal Bolus screen.

NOTE: When you first use the Audio Bolus feature, you should always look at the screen to confirm correct programming until you are comfortable with using audio or vibration feedback to program a bolus. See Chapter 9 in Section I.

⚠️ WARNING: Removal of the Audio Bolus/ezBolus™ button could damage the pump. In addition, it could affect the integrity of the pump and compromise the pump’s waterproof capabilities.
CHAPTER 2 - INTRODUCTION TO YOUR ANIMAS® VIBE® INSULIN PUMP

Battery Cap/Vent
This cap unscrews easily with a coin to replace and secure your battery. There is an o-ring around the cap, which prevents water from entering the pump. The battery cap also is equipped with a built-in vent to allow air to enter your pump to maintain pressurization but prevent water from entering. Be careful not to over tighten the battery cap. See Chapter 3 in Section I.

Primary Vent
This vent is part of the redundant vent safety system, which allows air inside your pump to maintain equalized pressure but prevents water from getting inside.

⚠️ WARNING: Never tighten the cartridge cap when your infusion set is attached to your body. Tightening the cartridge cap while your infusion set is attached to your body may result in unwanted insulin delivery, which can result in serious injury or death.

Cartridge Compartment Cap
This cap secures your cartridge and infusion set in your pump.

⚠️ WARNING: Under no circumstances should you introduce any kind of sharp object into the vent openings. Doing so will compromise your pump’s waterproof capabilities. If at any time you suspect the vent openings are clogged, replace the battery cap.

IR Window for Download
The IR window is framed in blue. This is the infrared communication window used for downloading your pump data.

Sounds
Your pump allows you to customize the volume level or use the vibrate function to notify you of warnings and alarms and to confirm certain insulin deliveries. If you are using the Dexcom G4 PLATINUM Sensor and Transmitter with your pump, you have the option to set CGM-related alarms and alerts in the CGM setup Menu (see Chapter 2 in Section II).
Tamper Resistant (Locked) Feature

You can use the tamper resistant feature to prevent accidental button pressing.

1. Wake up your pump and press and hold the ▲ and ▼ buttons at the same time until the screen reads “(LOCKED) Press & hold both arrow buttons to unlock”. This locks your pump buttons.

2. To unlock your pump, wake up your pump so the screen reads “(LOCKED) Press & hold both arrow buttons to unlock” and press and hold the ▲ and ▼ buttons at the same time until the screen display wakes up.

Basic Display Screens

Verify Screen

When you insert a battery, this is the first screen you see after the hourglass appears on the display. From here you should verify the settings for time, date, language and battery type. With “Confirm” highlighted, press to confirm the settings and go to the Home screen.

NOTE:
• If you do not confirm the settings on the VERIFY screen, you will be notified with an alarm beep sequence on your pump. If not confirmed, the pump will play 4 long tones/vib every 3 minutes until the screen is confirmed.
• It is important to have the correct (current) date and time set in your pump. If the pump loses the date and time setting due to the battery being removed for an extended period, you will not be able to go to the Home Screen (see below) until you edit and confirm the settings on the Verify Screen.
• If you are using the Dexcom G4 PLATINUM Sensor and Transmitter with your pump and you were in the middle of a CGM session when you inserted a battery, the Verify screen will continue to appear for about 8 seconds after pressing to confirm. The CGM session will resume once the Home screen appears. See Section II.

Home Screen

Once you have your pump set up, the Home screen is the first screen that is displayed when you “wake up” your pump. Press the ▲, ▼ or button to wake up your pump. (The Home screen shows the time of day, an approximate battery life indicator, if you have an extended bolus or temp basal currently active, current basal rate, and how much insulin remains in your cartridge.) You can access the Main Menu from here or you can take a shortcut to the Status screen. The battery life indicator is shaded to show approximate battery life remaining.

Battery life indicator

NOTE: Battery life varies by type of battery, storage conditions, and how long the battery has been in use. Expect actual battery life to be less than what is shown by the battery life indicator if you access pump features on a regular basis. Be prepared to replace the battery whenever the battery icon shows that it is less than completely (shaded) full.

After a set amount of time with no button presses, your pump display screen will “time out” to conserve battery life. When your pump times out, the screen display is blank.
Main Menu Screen
This screen shows all Main Menu options.

Bolus
This selection takes you to the Normal Bolus screen. If you have activated Advanced Bolus features, the Bolus Menu will be displayed. From the Bolus Menu you can select the bolus type, program and deliver the bolus dose.

Suspend/Resume
This selection stops all insulin deliveries and Resume restarts basal delivery.

History
This selection allows you to review history of boluses, total daily dose (TDD), alarms, primes, suspend and basal information.

Basal
This selection allows you to access and program your basal rate. This continuous rate maintains your BG between meals. This rate will be determined by your healthcare team. The default Basal Menu will display one basal program and the Temp Basal option. You can activate additional basal program options with the Setup Advanced menu.

Setup
This selection allows you to personalize the settings and features of your pump, as well as add advanced features to the menu. Your healthcare team will advise you on which features are best suited for your plan of treatment, as well as train you to achieve the best results.

Prime/Rewind
This selection enables you to properly align the cartridge and piston rod, as well as prime your infusion set tubing and fill your cannula or needle before connecting to your pump.

Status
This selection allows you to quickly see your current/most recent settings and pump deliveries.

CGM (see Section II)
If you are using the Dexcom G4 PLATINUM Sensor and Transmitter with your pump, this selection takes you to the CGM Menu screen where you can access all CGM functions available on your pump. In addition, you have the option to set BG limits, alarms, sound levels, etc. If you are not using the Dexcom G4 PLATINUM Sensor and Transmitter with your Animas® Vibe® Insulin Pump, CGM functions and data will not be operational on your pump display.
To complete this section, you will need the following items:

- Animas® Vibe® Insulin Pump
- Energizer® Ultimate Lithium AA battery (1.5V)
- Coin
- Infusion set with standard Luer connector
- Animas® 2.0 mL Cartridge (200 unit/2ml)
- Alcohol wipe (to clean top of insulin vial)
- Vial of U100 insulin (rapid-acting) at room temperature (see allowed insulin types in the Before You Begin section)
- Skin prep (to clean and prepare site for infusion set insertion)

⚠️ CAUTION: Under no circumstances should you use an alcohol wipe or skin prep to clean your pump. See Chapter 12 in Section I.

Battery Type

Your pump is designed to achieve optimum performance and battery longevity with an Energizer® Ultimate Lithium AA battery (1.5V). Check to be sure you have the correct lithium battery type before inserting the battery.

⚠️ CAUTION: It is possible to safely power your pump with a conventional AA alkaline battery (1.5V), but battery life is significantly reduced. Be sure you select the correct Battery Type on the Verify screen when you change the battery to ensure accuracy of the Low and Replace Battery Warnings.

If you must use an AA alkaline battery, the following is recommended:

- Energizer® E91

⚠️ WARNING:

- Rechargeable batteries and Carbon-Zinc batteries do not have the necessary characteristics to power your pump and must not be used. Use of these batteries voids your pump warranty.
- Under no circumstances should you attempt to power your pump with a high-energy 3.6V AA Lithium battery. Use of these batteries could permanently damage your pump and voids its warranty.

**NOTE:** Your pump uses battery power to notify you of alerts, warnings, and alarms. If you do not confirm the notification, your pump will continue to use battery power as the notifications repeat and progress. This will result in reduced battery life and the Replace Battery Alarm screen appearing sooner than expected.
CHAPTER 3 - GETTING YOUR PUMP READY

Changing the Battery

Each time you change the battery
- Always disconnect from infusion site prior to changing the battery.
- A full rewind and prime sequence is required. See Priming your Pump and Infusion Set in this chapter.
- The Insulin on Board calculation starts over at zero (0.00U).
- The Combo bolus returns to the factory set default duration and split.
- You should review your basal program settings.

⚠️ WARNING:
- Low Battery Warning means battery life will last a minimum of 30 minutes.
- You can remove the pump battery for up to 12 hours. Once you re-insert the battery, the pump will prompt you to enter the time and date. You must reset time and date.
- If you are using the Dexcom G4 PLATINUM Sensor and Transmitter with your pump, the Replace Battery alarm will stop all CGM functions, and no further CGM readings will be displayed until the battery is replaced. See Section II.

The Insulin on Board (IOB) calculation will be reset to zero (0.00U) every time you change the battery. When bolusing after a battery change, you will need to take into account any insulin you may still have on board from a previous bolus, even if the Bolus Calculator displays 0.00U IOB.

1. Disconnect from infusion site.
2. Use a coin to unscrew the battery cap with a counter-clockwise motion.
3. Check your battery cap for damage such as cracks or missing threads, and be sure the coloured o-ring fits securely and is not torn or damaged.
4. Check the vent hole on the top of the battery cap to be sure it is clear of debris. This vent maintains pressurization while preventing water from entering the compartment.

**NOTE:** The battery cap should be replaced every six months, or sooner if the o-ring or cap is damaged or the vent is clogged. See Chapter 12 in Section I.

5. Insert the Energizer® Ultimate Lithium AA (1.5V) battery into the battery compartment with the positive (+) end going in first.
6. Replace the cap by turning clockwise until you cannot see the o-ring. Then slowly tighten the cap until flush with pump body.

**NOTE:** Using excessive force to tighten the battery cap can cause your pump case to crack. Cracks, chips, or damage to your pump may impact the battery contact and/or the waterproof feature of your pump.

7. Each time you change the battery, your pump will run a series of self-tests which will last a few seconds. An all black screen with an hourglass symbol will appear followed by the VERIFY screen. Your pump will give a beep to alert you to verify (or change) the time/date, language and battery type.
8. Check the displayed time/date, battery type and language. If correct, scroll down to highlight “Confirm” and press the button. The Home screen will be displayed. For more details on changing the time and date, see Setup – Basics, Setting/Changing Time and Date in this chapter.

NOTE: The time and date must be programmed to confirm the VERIFY screen.

9. To change the battery type, highlight the “Battery” field and press to activate Edit mode (indicated by flashing cursor).

10. Use the buttons to change battery type and press to confirm and exit Edit Mode.

NOTE:
- The correct battery type must be selected in order for your battery life indicator to be accurate. “Lith” = Lithium, “Alkl” = Alkaline.
- It is important to have the correct (current) date and time set in your pump. If the pump loses the date and time setting due to the battery being removed for an extended period, you will not be able to go to the Home Screen until you edit and confirm the settings on the Verify Screen.

11. Scroll to “Confirm” and press . The Home screen is displayed.

NOTE: Until you have programmed a basal rate, the Alert screen shown here will appear when your pump is awakened. Simply scroll to “Confirm” and press to move past this Alert screen.

12. Each time you change the battery, a full Prime/Rewind sequence is required (see Priming your Pump and Infusion Set in this chapter). You do not have to remove your cartridge if the battery change is being done without a cartridge change. Skip the Fill Cannula step unless you have also changed your infusion site.

Setup

Setting/Changing the Time and Date

When you change your battery, the VERIFY screen allows you to edit the time and date.

You can also access the Time/Date SETUP screen by selecting “Setup” from the MAIN MENU.

1. From the Home screen, press to select “Menu”. Scroll to “Setup” on the MAIN MENU. Press .

2. Scroll to “Time/Date” on the SETUP menu. Press .

3. Press the button to activate Edit Mode (indicated by flashing cursor).
CHAPTER 3 - GETTING YOUR PUMP READY

4. Use the ▲/▼ buttons to change to your desired settings. Press the button to confirm your setting and exit Edit mode.

5. Use the ▲/▼ buttons to select the next field. Repeat the above process. Scroll to highlight “Main Menu” and press button when finished. The MAIN MENU screen will be displayed.

NOTE:
• It is important to have the correct (current) date and time set in your pump. Be sure to confirm the date and time before saving them in your pump.
• If you select the 12-hour time format, the AM/PM indicators will change as you scroll to set the time. Be sure the desired AM or PM selection is correctly displayed when setting the time.

Seasonal time adjustments (may apply to certain countries or regions)
You may need to adjust the time in your pump to reflect seasonal time changes in your local area.

If you advance the hour on your pump clock after **11pm but before midnight**, you must also manually forward the date by one day. If you change your pump clock **after midnight**, your pump date will have changed automatically to the appropriate date.

It is recommended that you set your clock back **before midnight on Saturday or after 1am on Sunday**. This keeps your pump set to the correct date. Your pump will register an additional hour in the Daily Totals History because the day has essentially been altered to consist of 25 hours. If you change the clock between midnight and 1am, you must also change the date. This will result in a duplicate date entry in your history. (This duplicate entry will contain up to one hour’s worth of insulin delivered.)

Sounds – Setting/Changing
The sound menu only adjusts sounds for pump-related functions. It does not activate the feature. For example, Audio Bolus Sound is adjusted in this menu, but to turn the Audio Bolus feature on, go to the Setup Advanced menu. See Chapter 9 in Section I. If you are using the Dexcom G4 PLATINUM Sensor and Transmitter with your pump, refer to Chapter 2 in Section II to set CGM-related sounds.

Your pump comes pre-loaded with a tune for most Alerts, Reminders and Alarms on medium and high volume settings. This tune plays only for the initial audible notification. If you do not confirm the initial notification, the next sound will be the factory default. If not confirmed, Warnings and Alarms will automatically progress to high volume and vibrate within one hour.
CHAPTER 3 - GETTING YOUR PUMP READY

The options from the first SETUP SOUND menu are listed below. Normal Bolus Sound and Temp Basal Sound can be set to one of the following: Vibrate (Vib), Low volume (L), Medium volume (M), High volume (H) or can be shut off (OFF) completely. For safety reasons, some sounds cannot be turned off.

Normal Bolus Sound
Audio Bolus Sound (OFF is not an option for this sound setting)

Temp Basal Sound

The options from the second Setup Sound menu are listed below. They can be set to one of the following: Vibrate (Vib), Low volume (L), Medium volume (M), High volume (H) or can be shut off (OFF). For safety reasons, some sounds cannot be turned off.

Alert Sound
Reminder Sound (OFF is not an option for this sound setting)
Warning Sound (OFF is not an option for this sound setting)
Alarm Sound (OFF is not an option for this sound setting)

⚠️ CAUTION: Unless otherwise recommended by your healthcare professional, vibrate mode should not be used during sleep. If you are a very sound sleeper, set the alarm volume to high before going to bed.

1. From the MAIN MENU, scroll to “Setup”. Press the button.
2. Scroll to “Sound”. Press the button to go to the SETUP SOUND screen.
3. Use the buttons to scroll to your selection. Press the button.
4. The cursor will flash to indicate you can edit the selection. Use buttons to change to desired setting. Press the button to confirm.

5. Repeat for remaining selections.
6. Scroll to “→” to access second SETUP SOUND menu or scroll to “Home” when finished to return to the Home screen.
CHAPTER 3 - GETTING YOUR PUMP READY

The Cartridge

Filling the Cartridge
Refer to the Instructions for Use included with your cartridges.

Connecting the Tubing to the Cartridge
To complete this section, you will need the following:

• Filled Animas® 2.0 mL Cartridge (200 unit/2ml)
• Infusion set compatible (standard Luer lock and insulin-compatible tubing) with your Animas® Vibe® Insulin Pump

⚠️ WARNING: The efficacy of your pump cannot be guaranteed if cartridges other than those manufactured by Animas Corporation are used.

Only infusion sets marketed for use with insulin infusion pumps using insulin-compatible tubing and with a standard Luer lock can be used with your Animas® Vibe® Insulin Pump. The efficacy of your pump cannot be guaranteed if other types of infusion sets are used. If you are unsure about whether your infusion set can be used with your Animas® Vibe® Insulin Pump, consult your healthcare team.

Never start the Prime/Rewind sequence on your pump while the infusion set is connected to your body. Failure to disconnect your infusion set from your body before you start the Prime/Rewind process can result in over delivery of insulin, and possible injury or death. If your pump sustains internal damage, the amount of unintended insulin delivery could be significant. This could result in serious injury or death from hypoglycemia.

1. Clean the workspace where you will be connecting the infusion set to the cartridge. Wash your hands thoroughly with soap and water.

2. Open sterile infusion set package carefully. If the package is damaged or opened, use another set and contact your supplier.

3. Unscrew the cartridge compartment cap from your pump, using a counter-clockwise motion.

4. Remove infusion set tubing cap from the Luer connector. (Not all infusion sets have these caps.)

5. After removing protective cap, thread the Luer connector of the infusion set through the top (smaller) opening of the cartridge compartment cap, being careful not to touch Luer tip with hands or work surface.
6. Remove cap from the filled cartridge tip. To avoid insulin spillage and introduction of air in the cartridge, it should never be filled beyond the 2.0 mL mark. The plunger is properly positioned for maximum fill when the black o-ring nearest to the plunger tip is centered on the 2.0 mL mark. Attach infusion set Luer connector to cartridge tip using clockwise motion until finger tight and then twist another quarter of a turn.

WARNING: Be sure to twist the Luer connector an extra quarter of a turn to ensure a secure connection. If the connection is not secure, insulin may leak around the cartridge, resulting in under delivery of insulin.


NOTE:
• Check for leaks, cracks or damage each time you change your cartridge and infusion set. To avoid leakage, be sure to tighten the Luer connection securely. You can check for moisture periodically by wrapping a tissue around the Luer connection between the cartridge and infusion set.
• When handling the cartridge, take care not to twist or turn the plunger in the cartridge body. Maintaining straight alignment of the plunger keeps the o-rings properly seated, which minimizes the possibility of introducing air into the cartridge and insulin spillage.

Changing the Cartridge
1. Disconnect infusion set from your body.
2. Unscrew the cartridge cap, leaving tubing connected to the cartridge.
3. With the tubing connected to the cartridge, pull cartridge straight out of your pump.
4. Disconnect tubing from cartridge and discard. Proceed with filling the new cartridge as outlined above.
CHAPTER 3 - GETTING YOUR PUMP READY

Priming your Pump and Infusion Set

NOTE: As each step is completed, the check box on the ezPrime menu will be shaded.

⚠ WARNING: Never prime tubing or tighten the cartridge cap while the infusion set is connected to your body. Failure to disconnect your infusion set from your body before performing this step can result in over delivery of insulin, and possible injury or death. If your pump sustains internal damage, the amount of unintended insulin delivery could be significant. This could result in serious injury or death from hypoglycemia.

1. Make sure you are disconnected from your pump.

2. From the MAIN MENU, select “Prime/Rewind”.

3. On the ezPrime menu, “Rewind” is highlighted. Press . The REWIND MOTOR screen is displayed.

4. Scroll up to “Go Rewind”. Press . Your pump will rewind the piston rod.

NOTE: Before starting the rewind, your pump will vibrate as it performs a self test.

5. When the rewind action is complete, the REWIND COMPLETE screen is displayed. Your pump will beep once to let you know the rewind is complete.

NOTE: If using a partially filled cartridge, you can select Stop during the Rewind Active function to stop the rewind at the position desired. After every third rewind, your pump is required to do a Full Rewind and will not offer the option of selecting the “Stop” position. A Full Rewind is always required when a battery is inserted.
6. Insert your filled cartridge.

7. Secure cartridge compartment cap to pump by turning in a clockwise motion until finger tight but Do Not over tighten.

**WARNING:** Never tighten the cartridge cap while the infusion set is connected to your body. Failure to disconnect your infusion set from your body before performing this step can result in over delivery of insulin, and possible injury or death. If your pump sustains internal damage, the amount of unintended insulin delivery could be significant. This could result in serious injury or death from hypoglycemia.

**NOTE:**
- If screen display has timed out while loading your cartridge, select Prime/Rewind from the MAIN MENU and highlight “Load Cart” from the ezPrime menu. Press 🆕 to display the REWIND COMPLETE screen. Continue with Step 8.
- You can only highlight “Load Cart” from the ezPrime menu after the rewind action is complete. This is true for all ezPrime menu options: you can only proceed to the next action once the previous action is complete.

8. On the REWIND COMPLETE screen, “Continue” is highlighted. Press 🆕. Your pump will align the piston rod with the cartridge. The LOAD CARTRIDGE ACTIVE screen is displayed, followed by the PRIME screen. Your pump will beep once to let you know the cartridge is aligned with the piston rod.


10. The DELIVER PRIME screen is displayed. Be sure the infusion set is not connected to your body until the prime is complete.

**WARNING:** Never prime while the infusion set is connected to your body. Failure to disconnect your infusion set from your body before performing this step can result in over delivery of insulin, and possible injury or death. If your pump sustains internal damage, the amount of unintended insulin delivery could be significant. This could result in serious injury or death from hypoglycemia.
11. Make sure “Go Prime” is highlighted. **Press and hold** the button until you see 5 drops of insulin come out the end of your infusion set. This means your tubing is primed. The PRIMING ACTIVE screen is displayed, followed by the PRIMING DONE screen.

**NOTE:** The maximum Prime amount is 20U at a time. The amount of Prime insulin displayed on the PRIMING DONE screen may differ from the amount displayed during the Priming procedure by ±2U. If additional priming is required, select “Prime” a second time from the ezPrime screen and repeat the steps for priming until you are sure 5 drops of insulin come out the end of your infusion set.

Refer to the *Instructions for Use* included with your infusion set for proper insertion guidelines. See *Selecting the Infusion Site and Inserting the Infusion Set* in this chapter.

12. From the ezPrime menu, “Fill Cannula” is highlighted. Press the button. The FILL CANNULA screen is displayed.

**NOTE:** This step is not necessary for needle sets.

13. Use the buttons to enter the amount of insulin needed to fill the cannula. Refer to the *Instructions for Use* included with your infusion set for details on how much insulin is required to fill the cannula. Press . “Go” is highlighted. Press to fill the cannula.

**NOTE:** The maximum Fill Cannula amount is 1U at a time.

If your pump is suspended, the screen will alert you with the ezPrime “Pump suspended” screen. You must resume delivery of your pump in order to complete the Priming function.

**NOTE:** The Fill Cannula step is not required for your pump to operate. For example, when you prime your pump after a battery change and you are not inserting a new infusion set, this step is not necessary. Filling the cannula when not necessary can result in unwanted delivery of insulin.
CHAPTER 3 - GETTING YOUR PUMP READY

Selecting the Infusion Site and Inserting the Infusion Set

Your healthcare team will review appropriate site selections and techniques for insertion based on your body type. Refer to the Instructions For Use included with your infusion set for proper insertion guidelines.

⚠️ WARNING:
- Do Not attempt to insert the infusion set into your body until you have been trained by your healthcare team. Improper insertion of your infusion set can lead to death or serious injury.
- Avoid skin sites with tattoos, or areas with rough patches or scarring from your pump or insulin injections.

⚠️ CAUTION: If you are using the Dexcom G4 PLATINUM Sensor and Transmitter with your pump, avoid injecting insulin or placing an infusion set within 7.62 centimeters (3 inches) of the Dexcom G4 PLATINUM Sensor in case the insulin affects the Sensor glucose readings.

Changing the Cartridge and Infusion Set

Cartridges and infusion sets require replacement and are not to be reused. Infusion sets should be replaced approximately every 2-3 days or as directed by your healthcare team. Refer to the insulin labeling and follow the direction of your healthcare team for frequency of replacing the cartridge.

⚠️ WARNING:
- Cartridges are for single use only. Re-use of a cartridge can adversely affect product performance, and can contribute to infection, insulin contamination, and under-delivery of insulin.

⚠️ CAUTION: Occasionally check the infusion set tubing for any damage, air bubbles, leaks or kinking, which may restrict or stop insulin delivery and result in under infusion.
CHAPTER 4 - USING THE NORMAL BOLUS FEATURE

This chapter covers the basics of a Normal bolus, which is used to cover your insulin needs.

Your pump also offers advanced bolus features. See Chapter 9 in Section I.

1. From the MAIN MENU, select “Bolus”.

2. The cursor will flash over the amount field to indicate that it can be edited. Use the ▲/▼ buttons to enter desired bolus amount. Press ◇.

3. “Go” is highlighted. Press ◇ to deliver the bolus.

4. The DELIVERING bolus screen is displayed. If you have activated the Normal Bolus sound in the SETUP SOUND menu, your pump will beep to confirm start of delivery, as well as when delivery is complete.

**NOTE:** During a bolus delivery, you can stop delivery at any time by pressing any button on the front panel of your pump. The Warning screen shown here will be displayed. Confirm the Warning by pressing ◇ and check your Bolus History for the amount delivered.

**NOTE:** You can check when you last gave a bolus by looking in History or Status. These features are covered later. See Chapter 7 and Chapter 8 in Section I.
NOTE: If you have Advanced Bolus and Reminders features turned on, the BOLUS MENU shown on the right will be displayed when you select “Bolus” from the MAIN MENU. Select “Normal” and press . Follow steps 2 through 4 in this chapter.

<table>
<thead>
<tr>
<th>BOLUS MENU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal</td>
</tr>
<tr>
<td>ezCarb</td>
</tr>
<tr>
<td>ezBG</td>
</tr>
<tr>
<td>Combo Bolus</td>
</tr>
<tr>
<td>Reminders</td>
</tr>
</tbody>
</table>

Main Menu
CHAPTER 5 - USING BASAL PROGRAM FEATURES

You can program your pump to display either 1 or 4 basal program options. Basal insulin is delivered continuously to help keep your BG in target between meals. Having more than one pre-set basal program makes it easy for you to switch based on your needs including weekends, weekdays, shift work, and menstruation. If you are new to pumping, your healthcare team may suggest you first become comfortable with one program before using multiple basal programs. The factory default displays one basal program and the temporary basal program. To display multiple basal options, see Chapter 9 in Section I.

⚠️ CAUTION: The lowest basal delivery amount possible is 0.025U/Hr. The highest basal delivery amount possible is 25U/Hr or the Max Basal amount you set in the Setup Advanced menu in Chapter 9 in Section I. This applies to any basal rate programmed in any basal program, and to any adjusted basal rate you set with the Temporary Basal Feature (see Temporary Basal Feature in this chapter).

Setting a Basal Program

Each basal program can be set with up to 12 different basal rates (doses) in a 24-hour period. These 12 start times can be set to accommodate your changing basal needs throughout the day. For example, your body may need more insulin in the early morning to compensate for the “dawn phenomenon.” You can program time segments to begin at any hour or half hour.

NOTE: The ↑/↓ buttons will move the cursor through fields when not in Edit mode. When in Edit mode, the ↑/↓ buttons will change the value of the field. If the cursor is flashing, that means you can edit the entry. Use the button to start/stop Edit mode.

1. From the MAIN MENU, select “Basal”. Press 🍯.

The BASAL MENU displays the following:

- Total basal insulin programmed for the 24-hour period
- Temp (if you wish to program a Temporary Basal rate)
- The active basal program, designated by number and by name, as well as an “A” to indicate the active program. (If you have activated multiple basal programs in the Setup Advanced menu, all 4 basal program options will be displayed as shown on the far right.)
2. Scroll to select the program “1-WEEKDAY” and press \( \mathbf{\text{OK}} \).

**NOTE:** You do not have to Suspend your pump to edit an active program. When you select “Edit” from the BASAL MENU, your pump automatically suspends delivery. When you exit the Edit mode, the active program delivery automatically resumes.

3. The BASAL OPTIONS screen is displayed. “Edit” is highlighted. Press the \( \mathbf{\text{OK}} \) button. From the EDIT BASAL screen, you can edit the basal segments of the selected program.

4. Scroll to the desired “U/Hr” field. Press \( \mathbf{\text{OK}} \) to activate Edit mode (indicated by flashing cursor).

5. Use \( \mathbf{\text{\downarrow/\uparrow}} \) buttons to set desired basal rate. Press \( \mathbf{\text{OK}} \) to confirm and exit Edit mode for this field.

6. Scroll down to select the next “Start” time field. Press the \( \mathbf{\text{OK}} \) button to activate Edit mode (indicated by flashing cursor).

**NOTE:** The next available empty basal segment will appear automatically as you program the previous segment. If the next empty basal segment does not appear, you have programmed all 12 possible segments.

7. Change next “Start” time field as desired, press the \( \mathbf{\text{OK}} \) button to exit Edit mode. Segments can start on the hour or half hour. The end time of the current time segment is always assumed to be midnight.

**NOTE:** The 24-hour Total changes automatically as you change U/Hr settings.
8. Continue until basal segments have been set as recommended by your healthcare team.

9. When finished, scroll to “Save/Review” and press \( \text{E} \). If you have edited the active program, it is now resumed automatically. The BASAL OPTIONS screen is displayed.

   \[ \text{NOTE: If your screen display has timed out (gone to sleep) or if an Alarm/Warning appears before you have selected Save/Review while editing, a Warning screen will remind you the basal edit has not been saved. See Chapter 11 in Section I.} \]

10. “Review” is highlighted. Press \( \text{E} \) to review your entries for accuracy. Your basal segment settings are shown (5 on first screen, 5 on second screen and 2 on last screen). If you have more than 5 segments programmed, scroll to “Next” to see second and third screens as desired.

11. “Options” is highlighted. Press \( \text{E} \). The BASAL OPTIONS screen is displayed.

   a. If you have edited and saved/reviewed the active program, it is resumed automatically. You can also select “Go” and the Home screen is displayed, which shows the current rate of delivery for the program that is active.

   b. If you have edited an inactive program and wish to activate it, select “Go” from the BASAL OPTIONS screen. When you select “Go”, the Home screen is displayed, which shows the current rate of delivery for the program that is active.

Adding/Changing Segments in an Existing Basal Program

1. From the BASAL MENU, select desired program.

2. “Edit” is highlighted. Press \( \text{E} \).

3. Scroll to highlight the field you wish to change or to next available blank line to add a segment. Press \( \text{E} \) to activate Edit mode. (The cursor will flash to indicate Edit mode.)

4. Use \( \text{A} \)/\( \text{V} \) buttons to set Start times and U/Hr amounts.

5. Check that the AM/PM settings are correct.
CHAPTER 5 - USING BASAL PROGRAM FEATURES

Reviewing Basal Programs

1. From the BASAL MENU, scroll to highlight desired program. Press \( \text{Menu} \).

2. Scroll to “Review” from the BASAL OPTIONS screen. Press \( \text{Menu} \). Your basal segment settings are shown (5 on first screen, 5 on second screen and 2 on last screen). If you have more than 5 segments programmed, scroll to “Next” to see second and third screens as desired.

3. When finished, “Options” is highlighted. Press \( \text{Menu} \).

4. Scroll to “Main Menu” and press \( \text{Menu} \). The MAIN MENU screen is displayed. The active basal program continues.

5. If reviewing an inactive program and you wish to activate it, select the program you wish to activate from the BASAL MENU screen. Press \( \text{Menu} \).

6. Select “Go” from the BASAL OPTIONS screen to activate the program. The Home screen is displayed to show the current rate per hour of the program you have activated.

NOTE:
- If you program a segment to start at the same time as an existing segment, the previously entered segment is deleted.
- If you program a segment to start at a time that precedes an existing segment, the new segment is automatically inserted in the correct place. You must then scroll to the new segment, highlight the corresponding U/Hr field and enter or change amount, if desired.

6. When finished, scroll to “Save/Review” and press \( \text{Menu} \). If you have edited the active program, it is now resumed automatically. The BASAL OPTIONS screen is displayed.

a. Select “Review” from the BASAL OPTIONS screen to review your entries for accuracy. Your basal segment settings are shown (5 on first screen, 5 on second screen and 2 on last screen). If you have more than 5 segments programmed, scroll to “Next” to see second and third screens as desired.

b. If you have edited an inactive program, select the program from the BASAL MENU. Press \( \text{Menu} \). Select “Go” from the BASAL OPTIONS screen to activate the program you have selected.

When you select “Go”, the Home screen is displayed, which shows the current rate of delivery for the program that is active. (Or you can simply wait for your pump display to time out. When you press any button, your active basal program rate information is displayed on the Home screen.)

⚠️ CAUTION: Always review changes to your basal program to be sure they are correct. Incorrect basal rates can result in under or over delivery of insulin. See Reviewing Basal Programs below.
CHAPTER 5 - USING BASAL PROGRAM FEATURES

Clearing Basal Programs

This feature allows you to clear all information from a basal program.

1. From the BASAL MENU, scroll to desired program.

2. From the BASAL OPTIONS screen, scroll to “Clear”. Press OK.

If you press OK to select “Clear”, your pump will check to be sure you want to clear all the segments of the basal program selected. The Alert screen shown here is displayed. If you do wish to clear all the basal segments of the selected program, scroll to “Clear Program” and press OK.

If you do not wish to clear all the basal segments, scroll to “Basal Options” and press OK. The BASAL OPTIONS screen will be displayed.

If all segments of your active basal program are set to 0.000 U/Hr your pump will not deliver any basal insulin. Each time you wake up your pump, the Alert screen shown here is displayed. If you have turned on the sound for Alerts, you will also be notified by a beep or vibrate. This Alert screen does not progress to higher audible alarms. You have the option to either select “Confirm” to quickly go to the MAIN MENU screen or select “Basal Menu” to reset rates in your active program. For more information see Chapter 11 in Section I.

Temporary Basal Feature

This feature allows you to increase your active basal delivery rate for events such as sick days or decrease for events such as exercise. You can decrease your basal rate by up to 90% (in 10% decrements) or increase your basal rate by up to 200% (in 10% increments). You can also set to OFF. You can set the duration up to 24 hours in half-hour increments. (If you have activated multiple basal programs in the Setup Advanced menu, all 4 basal program options will be displayed as shown on screen example below, right.)

1. From the BASAL MENU, scroll to “Temp”. Press OK.
CHAPTER 5 - USING BASAL PROGRAM FEATURES

2. The “Change” % field will flash to indicate Edit mode. Use the ▲/▼ buttons to enter the percentage change desired. Press the ◙ button to exit Edit mode.

<table>
<thead>
<tr>
<th>A1-WEEKDAY TEMP BASAL</th>
<th>A1-WEEKDAY TEMP BASAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Change: -40%</td>
<td>Change: 0%</td>
</tr>
<tr>
<td>Duration: 4.0Hr</td>
<td>Duration: 4.0Hr</td>
</tr>
<tr>
<td>Go</td>
<td>Go</td>
</tr>
<tr>
<td>Main Menu</td>
<td>Main Menu</td>
</tr>
</tbody>
</table>

3. The “Duration” field is highlighted. Press ◙ to activate Edit mode.

4. Use the ▲/▼ buttons to enter the duration desired. Press ◙ to exit Edit mode.

⚠️ CAUTION: The lowest basal delivery amount possible is 0.025U/Hr. When you set a negative temporary basal rate, your pump will vibrate, beep and display an Alert screen to remind you of the minimum delivery limit. The screen will display once for 4 seconds, and the pump will vibrate and give one audible alert (if you turn on Alert sounds in Setup). Your pump will not deliver any temporary basal set below 0.025 U/Hr. Any temporary basal rate set below 0.025 U/Hr will automatically be re-set to 0.025 U/Hr.

If you would like to deliver a temp basal amount less than 0.025 U/Hr, you can select “OFF” in the “Change” % field in the screen above. This will set the temp basal rate to 0.0 U/Hr for the duration selected.

5. “Go” is highlighted. Press ◙ to activate Temp Basal.

6. The Home screen is displayed and shows your Temp Basal is active, the percentage change, the duration and how much time is left. When the duration of time is complete, your pump will automatically resume the active basal program.

NOTE: If you turned on the Temp Basal sound in Setup, your pump will beep once every 30 minutes to remind you of Temp Basal status.
Cancelling a Temporary Basal Program

1. From the BASAL MENU, select “TEMP BASAL”. Press \( \text{[Select]} \).

2. Details of the current active Temp Basal program will be displayed. Scroll up to “CANCEL” and press \( \text{[Select]} \).

Your previously active basal program will be activated and the Home screen will be displayed to show the current rate per hour of the active basal program.

**NOTE:** If you Suspend your pump while a Temp Basal program is active, the Temp Basal program will be cancelled and an Alert screen will notify you that the Temp Basal program has been cancelled. This Alert is displayed once and gives an audible tone once (if you turned on Alert sounds in Setup). Temp Basal is also cancelled when you change the battery and/or prime.

⚠️ **CAUTION:** When you switch to another basal program or set a Temp Basal, you will most likely be changing the total insulin units delivered over a period of time. Be sure to review the total insulin units before you switch basal programs or set a Temp Basal. Units that are too high or too low may result in a hypoglycemic or hyperglycemic event.
CHAPTER 6 - SUSPEND/RESUME FEATURE

This feature allows you to stop and restart delivery quickly and easily.

It also cancels delivery of any Temp Basal or Bolus, including Combo Bolus that may be currently active. The Combo Bolus feature is covered in Chapter 9 in Section I.

Suspending Delivery

1. From the MAIN MENU, scroll to “Suspnd/Resum” and press •.

2. “Suspend” is highlighted. Press •.

The screen will display a message reminding you that this mode not only suspends your active basal delivery but also cancels any Temp Basal or Combo Bolus that may be active.

3. The Home screen is then displayed, showing that pump deliveries are suspended.
CHAPTER 6 - SUSPEND/RESUME FEATURE

⚠️ CAUTION: (If you are using the Dexcom G4 PLATINUM Sensor and Transmitter with your pump)

- While insulin delivery is suspended, your CGM session (see Section II) will remain active, but CGM readings will not be recorded or displayed. As soon as insulin delivery resumes, CGM readings will start recording and displaying again.
- If you want to temporarily suspend insulin delivery but still view CGM readings, do not use the suspend delivery feature. Instead, set Temp Basal to OFF for the time period you want basal delivery suspended.

**NOTE:**

- Periodically, your pump will beep (or vibrate if that is the setting you selected) to remind you of the Suspend status. If not confirmed, the beeps will progress to high volume in one hour. You can confirm the Warning to reset the audible sequence. See Chapter 11 in Section I.
- If you are using the Dexcom G4 PLATINUM Sensor and Transmitter with your pump and you suspend insulin delivery during the 2-hour CGM Calibration Startup period, the calibration sequence will continue and the CGM session will remain active even though insulin delivery is suspended.
- See Section II for information on CGM functions.

### Resuming Delivery

<table>
<thead>
<tr>
<th>MAIN MENU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bolus</td>
</tr>
<tr>
<td>CGM</td>
</tr>
<tr>
<td><strong>Suspnd/Resum</strong></td>
</tr>
<tr>
<td>History</td>
</tr>
<tr>
<td>Basal</td>
</tr>
<tr>
<td>Setup</td>
</tr>
<tr>
<td>Prime/Rewind</td>
</tr>
<tr>
<td>Status/Rewind</td>
</tr>
<tr>
<td><strong>Home</strong></td>
</tr>
</tbody>
</table>

1. From the MAIN MENU, scroll down to “Suspnd/Resum” and press 📈.

2. “Resume” is highlighted. Press 📈.

3. The Home screen is displayed to show you that your pump is no longer in Suspend mode. Your previously active basal program is automatically resumed.
CHAPTER 7 - HISTORY FEATURE

Your pump stores important records for your review. You can access your pump's history and view it directly on your pump screen or you can use compatible diabetes management software to track, review and analyze pump history on your computer. If you are using the Dexcom G4 PLATINUM Sensor and Transmitter with your pump, and want to view CGM History, see Chapter 7 in Section II.

Your pump stores basal rates, boluses, alarms and settings. Your pump stores these records indefinitely, even when batteries are removed.

From the MAIN MENU, select “History”. The HISTORY menu is displayed.

### Bolus History

Your pump displays the last 500 Bolus records.

1. From the HISTORY menu, select “Bolus”.

   The screen displays the following:

   • Bolus Record number
   • Date of bolus
   • Time of bolus
   • Type of bolus delivered
     - Normal
     - Combo
     - Audio
   • Amount of bolus programmed and delivered
   • Status of bolus
     - ACTIVE
     - COMPLETED
     - CANCELLED
   • If ezBG or ezCarb was used

2. To view other Bolus records first scroll up to highlight the record field. Press \[\text{ }\] to activate Review mode (indicated by flashing cursor).
CHAPTER 7 - HISTORY FEATURE

3. Record 1 indicates the most recent record. Use the ▲/▼ buttons to scroll to other records.

4. When finished reviewing, press ◀ to exit Review Mode.

5. “<=” is highlighted. Press ◀ to return to the HISTORY menu.

Total Daily Dose (TDD) History

Your pump displays the last 120 TDD records.

1. From the HISTORY menu, select “Total Daily Dose (TDD)”.

This screen displays the following:

- Record number
- Date of record
- If Temp Basal was active on that date
- If Suspend was activated on that date
- Total Bolus for the date
- Total Basal for the date
- Total dose for the date

NOTE: Each daily total is the total delivered since midnight.

2. Scroll up to highlight the record field. Press ◀ to activate Review Mode (indicated by flashing cursor).

3. Record 1 indicates the most recent record. Use the ▲/▼ buttons to scroll to other records.

4. When finished reviewing, press ◀ to exit Review Mode.

5. “<=” is highlighted. Press ◀ to return to the HISTORY menu.
Alarm History

Your pump History menu displays the last 30 alarm records related to insulin delivery. If you are using the Dexcom G4 PLATINUM Sensor and Transmitter with your pump, alarms related to CGM functions can be displayed under the CGM Menu options (see Chapter 7 in Section II).

1. From the HISTORY menu, select “Alarm”. The screen displays the following:
   • Record number
   • Date of alarm
   • Time of alarm
   • Alarm Code
   • Alarm Type

2. Scroll up to highlight the record field. Press \( \text{\textbf{\text circledast}} \) to activate Review Mode (indicated by flashing cursor).

3. Record 1 indicates the most recent record. Use the \( \text{\textcircled{\textleftarrow}}/\text{\textarrowright} \) buttons to scroll to other records.

4. When finished reviewing, press \( \text{\textbf{\text circledast}} \) to exit Review Mode.

5. “\( \text{\textleftarrow} \)” is highlighted. Press \( \text{\textbf{\text circledast}} \) to return to the HISTORY menu.

Prime History

Your pump displays the last 60 Prime and Fill Cannula records. Prime and Fill Cannula records are stored as separate records.

1. From the HISTORY menu, select “Prime”. The screen displays the following:
   • Record number
   • Date of prime
   • Time of prime
   • Amount of prime

2. Scroll up to highlight the record field. Press \( \text{\textbf{\text circledast}} \) to activate Review Mode (indicated by flashing cursor).
CHAPTER 7 - HISTORY FEATURE

3. Record 1 indicates the most recent record. Use the ▲/▼ buttons to scroll to other records.

The screen displays the following:

• Record number
• Date of cannula fill
• Time of cannula fill
• Amount of cannula fill

4. When finished reviewing, press ◄ to exit Review Mode.

5. “◄” is highlighted. Press ◄ to return to the HISTORY menu.

Suspend History

Your pump displays the last 30 Suspend records.

1. From the HISTORY menu, select “Suspend”. The screen displays the following:

• Record number
• Date and time pump delivery was suspended
• Date and time pump delivery was resumed

2. Scroll up to highlight the record field. Press ◄ to activate Review Mode (indicated by flashing cursor).

3. Record 1 indicates the most recent record. Use the ▲/▼ buttons to scroll to other records.

4. When finished reviewing, press ◄ to exit Review Mode.

5. “◄” is highlighted. Press ◄ to return to the HISTORY menu.
Basal History

Your pump keeps track of whenever there has been a change in a basal rate and will display the last 270 basal “rate change” records.

1. From the HISTORY menu, select “Basal”. The screen displays the following:
   - Record number
   - Date and time basal rate was adjusted
   - Basal rate adjustment

2. Scroll up to highlight the record field. Press to activate Review Mode (indicated by flashing cursor).

3. Record 1 indicates the most recent record. Use the buttons to scroll to other records.

4. When finished reviewing, press to exit Review Mode.

5. “<==” is highlighted. Press to return to the HISTORY menu.

NOTE: Basal History records each basal rate change. When no basal is being delivered, the Basal History Record will show 0 units delivered. This can happen for the following reasons:

- Cartridge change
- Battery change
- Suspend
- Alarm
- Basal segment set to 0.00
- Basal edit screen accessed
- Prime menu accessed
- Loss of prime
CHAPTER 8 - STATUS FEATURE

This feature gives you easy access to a summary of information about your pump’s current programming and performance. There are seven Status screens.

1. From the MAIN MENU or from the Home screen, scroll to “Status” and press OK.

Status Screen 1 – Active Basal

The screen displays the following information:

- Which basal program is currently active
- The 24-hour total for the active basal program
- Units per hour currently being delivered
- Insulin currently remaining in cartridge

To move to the next STATUS screen, press OK with “→” highlighted at the bottom of the screen.

To return to the Home screen, highlight “Home” and press OK.

Status Screen 2 – Insulin on Board, Last Bolus

The screen displays the following information:

- Amount of insulin currently “on board” (indicated by “IOB” on the screen). For more information on this feature, see Chapter 9 in Section I.
- Type and amount of last completed bolus
  - N = Normal
  - C = Combo (normal portion only)
  - A = Audio
- Time and date of last bolus

To move to the next STATUS screen, press OK with “→” highlighted at the bottom of the screen.

To return to the Home screen, highlight “Home” and press OK.
CHAPTER 8 - STATUS FEATURE

Status Screen 3 – Delivery Today
The screen displays the following information since midnight and up to the current time stored in the pump:

- Insulin type
- If Temp Basal has been active
- If Suspend has been active
- Total bolus amount delivered
- Total basal amount delivered
- Total insulin delivered (excluding prime amounts)

To move to the next STATUS screen, press with “→” highlighted at the bottom of the screen.
To return to the Home screen, highlight “Home” and press .

Status Screen 4 – Combo Bolus
The screen displays the following information:

- Most recent Combo Bolus status
  - Active or Completed or Cancelled
  - Start date
  - Start time
  - End time
  - Amount delivered (if active, shows amount delivered as of current time stored in the pump)

For more information on Combo Bolus, see Chapter 10 in Section I.
To move to the next STATUS screen, press with “→” highlighted at the bottom of the screen.
To return to the Home screen, highlight “Home” and press .

Status Screen 5 – Temp Basal
The screen displays the following information:

- Most recent Temp Basal status
  - Active/Inactive
  - Start date
  - Start time
  - End time
  - % adjustment

To move to the next STATUS screen, press with “→” highlighted at the bottom of the screen.
To return to the Home screen, highlight “Home” and press .
Status Screen 6 – Pump Information

The screen displays the following information:

• Pump serial number
• Transmitter ID (see Chapter 2 in Section II).
• Software versions

To move to the next STATUS screen, press with “→” highlighted at the bottom of the screen.

To return to the Home screen, highlight “Home” and press .

Status Screen 7 – Additional Pump Codes

The screen contains information that will be useful to Animas Customer Technical Support.

To move to the next STATUS screen, press with “→” highlighted at the bottom of the screen.

To return to the Home screen, highlight “Home” and press .
CHAPTER 9 - ADVANCED FEATURES / SETUP AND ACTIVATION

Now you have made it through the basics! Your pump offers many advanced features that you may find helpful in managing your diabetes. Consult with your healthcare team to determine which advanced features and settings are appropriate for you.

⚠️ WARNING: Be sure to discuss which advanced features and settings are right for you with your healthcare team. Many of the advanced features/settings require input from your healthcare team before you begin using the feature. Use of incorrect settings on certain advanced features can result in over delivery or under delivery of insulin.

This chapter tells you how to set up and turn on the advanced features. Chapter 10 in Section I covers how to use each advanced feature.

From the MAIN MENU screen, select “Setup”. Then select “Advanced” from the SETUP screen and press .

The SETUP ADV 1 screens allow you to program personal settings that will be used with the ezCarb and ezBG features.

**Setup Advanced Screen 1 – Personal Settings - Insulin to Carb (I:C) Ratios**

An Insulin to Carb (I:C) ratio is the amount of carbs you can cover with one unit of insulin. Your healthcare team may recommend you use different Insulin to Carb (I:C) ratios for different times of the day. When you use the ezCarb feature, your pump will automatically select the I:C ratio for the current time stored in the pump.

This screen allows you to set different I:C ratios for 12 different time slots.

**NOTE:** If you set only one Insulin to Carb Ratio, it will be used for the entire 24-hour period.

1. From the SETUP ADV 1 screen, scroll up to “I:C Ratio”. Press .
2. The first segment always starts at midnight. The last time slot available is 11:30pm. Use the ▲/▼ buttons to scroll to the “1U:" (grams) field.
3. Press ▼ to change to flashing cursor for Edit Mode.
4. Use the ▲/▼ buttons to change to desired setting.
5. Press ▼ when setting is made.
6. To move to the next I:C Ratio screen, scroll to “⇒⇒⇒” and press 💾.
7. Scroll up to the “Time” field and press 💾 to change to flashing cursor for Edit Mode.
8. Use the ↑/↓ buttons to change the segment start time. Press 💾.
9. Scroll to the “1U:” (grams) field and press 💾 to change to flashing cursor for Edit mode.
10. Use the ↑/↓ buttons to change the “1U:” (grams) field as desired. Press 💾. Repeat to set remaining segments per your healthcare team’s recommendations.

To review your settings, highlight “⇒⇒⇒” and press 💾 to scroll through each segment. Confirm the times and setting values are correct.

When finished, scroll to “Done” and press 💾 to return to the SETUP ADV 1 screen.

To return to the Home screen, scroll to “Home” and press 💾.

**Setup Advanced Screen 1 – Personal Settings - Insulin Sensitivity Factor (ISF)**

An Insulin Sensitivity Factor (ISF) is the amount you can expect to lower your BG with one unit of insulin. Your healthcare team may recommend you use different Insulin Sensitivity Factors (ISFs) for different times of the day. When you use the ezCarb or ezBG feature, your pump will automatically select the ISF for the current time stored in the pump.

This screen allows you to set different ISFs for 12 different time slots.

**NOTE:** If you set only one Insulin Sensitivity Factor, it will be used for the entire 24-hour period.

<table>
<thead>
<tr>
<th>SETUP ADV 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>I:C Ratio</td>
</tr>
<tr>
<td>ISF</td>
</tr>
<tr>
<td>BG Target</td>
</tr>
<tr>
<td>Home</td>
</tr>
</tbody>
</table>

1. From the SETUP ADV 1 screen, scroll up to “ISF”. Press 💾.

2. The first segment always starts at midnight. The last time slot available is 11:30pm. Use the ↑/↓ buttons to scroll to the “1U:” (mmol/L) field.
3. Press 💾 to change to flashing cursor for Edit mode.
4. Use the ↑/↓ buttons to change to desired setting.
5. Press 💾 when setting is made.
6. To move to the next ISF screen, scroll to “⇒⇒⇒” and press 💾.
7. Scroll up to the “Time” field and press 📀 to change to flashing cursor for Edit mode.

8. Use the ▲/▼ buttons to change the segment start time. Press 📀.

9. Scroll to the “1U:” (mmol/L units) field and press 📀 to change to flashing cursor for Edit Mode.

10. Use the ▲/▼ buttons to change the “1U:” (mmol/L units) field as desired. Press 📀. Repeat to set remaining segments per your healthcare team’s recommendations.

To review your settings, highlight “→” and press 📀 to scroll through each segment. Confirm the times and setting values are correct.

When finished, scroll to “Done” and press 📀 to return to the SETUP ADV 1 screen.

To return to the Home screen, scroll to “Home” and press 📀.

Setup Advanced Screen 1 – Personal Settings - BG Target Ranges

A BG Target is your personal goal for keeping your BG levels under control. A BG Target may be set as an actual range (with a minimum and maximum value), or a single value. Your healthcare team may recommend you use different BG Target ranges (or values) for different times of the day.

The BG Targets (ranges or values) you set in the pump are important as they are used in calculating suggested BG correction bolus amounts when using the ezBG and ezCarb features on your pump (see Chapter 10 in Section I). When the pump calculates a suggested BG correction bolus, it begins the calculation by determining the difference between your current BG and the BG Target range/value for the current time of day stored in the pump. That number, along with your ISF, is then used to calculate a BG correction bolus amount that would bring your current BG in line with your BG Target range/value.

In addition to the BG correction bolus amount, there are other factors that are used in calculating suggested insulin bolus amounts when using the ezBG and ezCarb features on your pump. These include the amount of insulin on Board from a previous bolus, your ISF, and your I:C Ratio. For more information on Insulin on Board including activating the feature on your pump, refer to Setup Advanced Screen 8 – Insulin on Board in this chapter. See Chapter 10 in Section I for information on using the ezBG and ezCarb features on your pump.

NOTE: The BG Targets discussed here are different than the Low and High Glucose Alerts that apply only to CGM readings when using the Dexcom G4 PLATINUM Sensor and Transmitter with your pump. See Chapter 2 in Section II for more information on CGM Alerts.
The SETUP ADV 1 (BG Target) screen allows you to set different BG Target (ranges or values) for 12 different time slots. Each BG Target (range or value) is set by first selecting a BG Target and then a +/- amount that will define the minimum and maximum of the range. For example, a BG Target of 6.7 mmol/L and a +/- amount of 0.6 mmol/L means the Target range will be set to 6.1 – 7.3 mmol/L. If you prefer to correct your BG to one target value rather than a range, set the +/- amount to 0.

**NOTE:** If you set only one BG Target, it will be used for the entire 24-hour period.

1. From the SETUP ADV 1 screen, scroll up to “BG Target”. Press †.
2. The first segment always starts at midnight. The last time slot available is 11:30pm. Use the ▲/▼ buttons to scroll to the BG Target field.
3. Press † to change to flashing cursor for Edit mode.
4. Use the ▲/▼ buttons to change to desired setting.
5. Press † when setting is made.
6. Scroll to the “+/−”(range) field. Press † to change to flashing cursor for Edit mode.
7. Use the ▲/▼ buttons to change the range as desired. Press †.
8. To move to the next BG Target screen, scroll to “−→” and press †.
9. Scroll up to the “Time” field and press † to change to flashing cursor for Edit mode.
10. Use the ▲/▼ buttons to change the segment start time. Press †.
11. Scroll to the BG Target field. Press † to change to flashing cursor for Edit mode.
12. Use the ▲/▼ buttons to change to desired setting.
13. Press † when setting is made.
14. Scroll to the “+/−”(range) field. Press † to change to flashing cursor for Edit mode.
15. Use the ▲/▼ buttons to change the range as desired. Press †. Repeat to set remaining segments per your healthcare team’s recommendations.

To review your settings, highlight “−→” and press † to scroll through each segment. Confirm the times and setting values are correct.

When finished, scroll to “Done” and press † to return to the SETUP ADV 1 screen.

To return to the Home screen, scroll to “Home” and press †.
Setup Advanced Screen 2 – Advanced Bolus Features and Multiple Basal Programs

You can program your pump to increase the number of bolus types and basal program options available to you. You can also program the speed of bolus insulin delivery, and choose to turn the personal Reminders feature on or off.

This screen allows you to:

• Turn Advanced Bolus Features (ezCarb, ezBG, Combo Bolus) on or off
• Turn personal Reminders feature on or off
• Select bolus delivery speed (NRML (normal): 1U every second or SLOW: 1U every 5 seconds)

**NOTE:** Users may experience a slight stinging sensation with normal bolus delivery. If this occurs changing the bolus delivery speed to “SLOW” may reduce the stinging sensation, particularly with very large boluses.

• Select either 1 basal program or 4 basal programs to be displayed in the BASAL MENU. Users find this feature beneficial if their activity level is different during the week than on weekends. Switching work shifts is another reason to use multiple basal programs. Some people use a different basal program during menstruation. An “A” will appear to the left of the Basal Program that is currently active when displaying the BASAL MENU screen.

**NOTE:** If a program other than 1-Weekday is active, you cannot change this setting to display 1 basal program. The Alert screen shown here will be displayed to remind you.

1. From the SETUP ADV 2 screen, scroll to the desired field.
2. Press ↵ to change to flashing cursor for Edit mode.
3. Use the ▲/▼ buttons to change to desired setting.
4. Press ↵ when setting is made.

To move to the next Setup Advanced screen, scroll to the bottom of the screen and highlight “→”. Press ↵.

To return to the Home screen, scroll to “Home” and press ↵.
Chapter 9 - Advanced Features / Setup and Activation

Setup Advanced Screen 3 – Insulin Limits

You can program your pump to control the maximum amount of basal, bolus, daily insulin, and insulin delivered in a 2-hour period. Your pump will alert you when you exceed these amounts.

This screen allows you to:

• Set maximum basal delivery per hour
• Set maximum bolus amount
• Set maximum daily (24-hour) delivery amount. Your pump checks that total insulin delivery each 24-hour period (running from midnight of the previous day to midnight of the current day) does not exceed this limit.
• Set maximum 2-hour delivery amount. Your pump checks that total insulin delivery over each rolling 2-hour period does not exceed this limit.

1. From the SETUP ADV 3 screen, scroll to the desired field.
2. Press to change to flashing cursor for Edit mode.
3. Use the buttons to change to desired setting.
4. Press when setting is made.

To move to the next Setup Advanced screen, scroll to the bottom of the screen and highlight “→”. Press .

To return to the Home screen, scroll to “Home” and press .

⚠️ CAUTION: Should you attempt a delivery that exceeds the limits you have set, your pump will alert you and display a text message. See Chapter 11 in Section I for additional information.

Setup Advanced Screen 4 – Language Setup, Display Timeout, Contrast and Battery Type

You can customize how information will be displayed on your pump, and what type of battery you will use.

This screen allows you to:

• Select a different language
• Set the length of time your display stays on before timing out to save battery life
  o 15, 30, 45 or 60 seconds
• Select a contrast setting
• Select Lithium (recommended) or Alkaline battery type. If you select the wrong battery type, the alarm screens may not function properly. You can also change the battery type on the VERIFY screen when you insert a new battery.
1. From the SETUP ADV 4 screen, scroll to the desired field.

2. Press \( \text{ } \) to change to flashing cursor for Edit mode.

3. Use the \( \text{ } / \) buttons to change to desired setting.

4. Press \( \text{ } \) when setting is made.

To move to the next Setup Advanced screen, scroll to the bottom of the screen and highlight "\( \rightarrow \)".
Press \( \text{ } \).

To return to the Home screen, scroll to “Home” and press \( \text{ } \).

**CONTRAST BUTTON/CGM SHORTCUT**

Pressing the button on the top of your pump adjusts the contrast. There are three contrast levels: Dim, Default and Bright. To preserve battery life, your pump display will Auto-dim when a button is not pressed for half the time your display time out is set. While in Auto-dim mode, you can restore the default contrast level you have set by pressing the \( \text{ } \) button on top of your pump. Pressing a function button while in Auto-dim mode will restore the default contrast level as well as perform the function of the key. *If in Call Service Alarm mode, you must use the \( \text{ } \) button to restore the default contrast level.*

To return contrast setting to original factory default, press the \( \text{ } \) button and \( \text{ } \) button at the same time. When the word “Contrast” is displayed on the screen, press any button to return to the default contrast setting.

If you are not using the Dexcom G4 PLATINUM Sensor and Transmitter with your pump, CGM functions and data will not be operational on your pump display. However, pressing the \( \text{ } \) button while the pump is in sleep mode will awaken the pump to one of the CGM Trend graphs or the CGM Data screen. From any of these screens, you will need to return to the MAIN MENU screen. Press \( \text{ } \) on your pump to return to the CGM Menu screen and then press \( \text{ } \) again with “Main Menu” highlighted to return to the MAIN MENU screen.

If you are using the Dexcom G4 PLATINUM Sensor and Transmitter with your pump, pressing the \( \text{ } \) button while the pump is in sleep mode will awaken the pump to one of the CGM Trend graphs or the CGM Data screen. See Chapter 6 in Section II.

*NOTE:* When viewing your pump display in bright sunlight, it is recommended you shade the screen or move to a shady area for best visibility.
**Setup Advanced Screen 5 – Auto-OFF Feature**

You may program your pump to automatically suspend basal delivery and sound an alarm if no pump buttons are pressed in a user-selected number of hours. This feature can be used as a safeguard in case the user is unconscious. If the alarm is displayed/sounds, it means all insulin delivery has stopped, and you will need to disconnect the pump and re-prime. See Chapter 11 in Section I for more information on the AUTO-OFF Alarm.

⚠️ CAUTION: If you are using the Dexcom G4 PLATINUM Sensor and Transmitter with your pump, and insulin delivery is suspended because the AUTO-OFF Alarm has sounded/displayed, your CGM session (see Section II) will remain active, but CGM readings will not be recorded or displayed. As soon as insulin delivery resumes, CGM readings will start recording and displaying again.

This screen allows you to turn the feature on and set the time period for checking if there have been button presses.

1. From the SETUP ADV 5 screen, scroll to the desired field.
2. Press to change to flashing cursor for Edit mode.
3. Use the / buttons to change to desired setting.
4. Press when setting is made.

To move to the next Setup Advanced screen, scroll to the bottom of the screen and highlight “→”.
Press .
To return to the Home screen, scroll to “Home” and press .

**Setup Advanced Screen 6 – Low Cartridge Warning Setting and Occlusion Sensitivity Setting**

You can program your pump to alert you when your insulin cartridge is running low. The occlusion detection is automatic. A blockage may restrict the flow of insulin into your body.

This screen allows you to:
- Set your low cartridge warning to alert you when you have 10, 20, 30, 40 or 50 units remaining in the cartridge.
- Set your pump to detect a blockage with high sensitivity (H) or low sensitivity (L). The sensitivity level refers to how quickly the pump will sense back pressure from an occlusion in the infusion line, with H meaning “more sensitive” and L meaning “less sensitive”. Review the Occlusion Sensitivity setting with your healthcare team and see Chapter 17 in Section I for more information.

1. From the SETUP ADV 6 screen, scroll to the desired field.
2. Press to change to flashing cursor for Edit mode.
3. Use the / buttons to change to desired setting.
4. Press when setting is made.

To move to the next Setup Advanced screen, scroll to the bottom of the screen and highlight “→”.
Press .
To return to the Home screen, scroll to “Home” and press .
Setup Advanced Screen 7 – Audio Bolus Feature

You can set your pump to bolus without having to look at the screen display, by pressing the black button on the right side of your pump. All boluses delivered with the Audio Bolus feature will be delivered as Normal Boluses.

This screen allows you to:

• Turn the Audio Bolus feature on or off
• Select the Audio Bolus delivery step size
  - 0.1, 0.5, 1.0, 5.0 Units

1. From the SETUP ADV 7 screen, scroll to the desired field.
2. Press ⏫ to change to flashing cursor for Edit mode.
3. Use the ▲/▼ buttons to change to desired setting.
4. Press ◼ when setting is made.

NOTE: If Audio Bolus is activated, you cannot use the side button as a shortcut to Normal Bolus. You can still give a Normal Bolus via the MAIN MENU.

To move to the next Setup Advanced screen, scroll to the bottom of the screen and highlight “→”. Press ◼.

To return to the Home screen, scroll to “Home” and press ◼.
Setup Advanced Screen 8 – Insulin on Board Setting

The Insulin on Board feature activated and set by you helps you calculate how much insulin might still be active in your body from a previous bolus dose. The actual amount of insulin left in your body is determined by the rate at which your body uses insulin, your infusion site, your activity level, and other factors. Your pump uses a curvilinear algorithm that mimics the way insulin is metabolized to track Insulin on Board.

The Insulin on Board setting is important as Insulin on Board amounts are taken into consideration when using the ezBG and ezCarb features on your pump to calculate suggested bolus amounts (see Chapter 10 in Section I). Insulin on Board amounts apply only if the feature has been activated on your pump, and you are using either the ezBG or ezCarb features to calculate a suggested bolus amount. In certain situations, your pump will calculate a reduced suggested total bolus amount to account for any Insulin on Board.

**Insulin on Board when using the ezCarb feature:**

The ezCarb Bolus Total screen will display a carb correction amount, a BG correction amount, your Insulin on Board amount (if the feature is activated), and a suggested total bolus amount.

*NOTE:* The displayed carb correction, BG correction, and Insulin on Board amounts (if the feature is activated), and the resulting total bolus amount are for reference only. They do not represent the actual calculation performed on the pump.

If the Insulin on Board feature is activated, your Insulin on Board amount will always be displayed for reference, but may not always be applied to the suggested total bolus amount.

Refer to Chapter 10 in Section I for an example of ezCarb when the Insulin on Board feature on your pump is activated.

**Insulin on Board when using the ezBG feature:**

The ezBG Total screen will display a BG correction amount, your Insulin on Board amount (if the feature is activated), and a suggested total bolus amount.

*NOTE:* The displayed BG correction and Insulin on Board amounts, and the resulting total bolus amount are for reference only. They do not represent the actual calculation performed on the pump.

If the Insulin on Board feature is activated, your Insulin on Board amount will always be displayed for reference, but may not always be applied to the suggested total bolus amount. For instance, when Insulin on Board is enough to cover the amount required to bring a high BG back into target range, no additional insulin amount will be suggested to cover the high BG.

Refer to Chapter 10 in Section I for an example of ezBG when the Insulin on Board feature on your pump is activated.
WARNING: The Insulin on Board feature is intended for use only with U100 rapid-acting insulin analogs such as Novo Rapid®, Humalog®, or Apidra®. If you use an insulin other than Novo Rapid®, Humalog®, or Apidra®, Do Not use this feature. Use of any insulin with lesser or greater concentration can result in serious injury or death.

Then SETUP ADV 8 screen allows you to:

- Turn the Insulin on Board (indicated by “IOB” on the screen) feature on or off
- Select the duration from 1.5 to 6.5 hours in half-hour increments.

1. From the SETUP ADV 8 screen, scroll to the desired field.
2. Press ∈ to change to flashing cursor for Edit mode.
3. Use the ▲/▼ buttons to change to desired setting.
4. Press ≤ when setting is made.

To move to the next Setup Advanced screen, scroll to the bottom of the screen and highlight “ →”. Press ∈.

To return to the Home screen, scroll to “Home” and press ∈.

NOTE: Your pump is constantly tracking Insulin on Board, so when you turn on the feature, your pump will immediately take into account the current amount remaining from previous bolus doses within the time frame you have selected during set up of the feature.
Setup Advanced Screen 9 – Sick Day Guidelines

Your healthcare team may recommend guidelines to use when you are sick, such as when to test your BG or ketones. Your pump provides a convenient way to store some of these guidelines. For more information on sick day guidelines, refer to Chapter 15 in Section I and contact your healthcare team.

This screen allows you to:

- Set a BG limit as a reminder for testing when sick
- Set the frequency of checking for ketones when sick
- Set the frequency of checking your BG when sick

1. From the SETUP ADV 9 screen, scroll to the desired field.
2. Press ➥ to change to flashing cursor for Edit mode.
3. Use the ▲/▼ buttons to change to desired setting.
4. Press ➥ when setting is made.

To move to the next Setup Advanced screen, scroll to the bottom of the screen and highlight “→”. Press ➥.

To return to the Home screen, scroll to “Home” and press ➥.

NOTE:
- This screen is intended as a reference only. Alerts are NOT triggered based on values displayed on this screen.
- The BG limit you set on the SETUP ADV 9 screen is different than the Low and High Glucose Alerts that apply only to CGM readings when using the Dexcom G4 PLATINUM Sensor and Transmitter with your pump. See Chapter 2 in Section II for more information on CGM Alerts.
NOTE: Before using these features, you must turn them on in the Setup Advanced menu. See Chapter 9 in Section I.

Audio Bolus/ezBolus™ Button

The Audio Bolus/ezBolus™ button on the right side of your pump serves two purposes. If you activate the Audio Bolus feature, it allows you to bolus without looking at the screen display. This is convenient if you wear your pump under your clothing. When first using the Audio Bolus feature, also check the display screen until you are comfortable with the programming steps. If you do not wish to use the Audio Bolus feature, this button serves as a shortcut to the Normal Bolus screen. See ezBolus™ in this chapter.

1. Turn on Audio Bolus in the Setup Advanced menu and select your preferred step size. See Setup Advanced Screen 7 – Audio Bolus Feature in Chapter 9 in Section I.

2. The Audio Bolus button is the soft rubber button on the end of your pump. Press it once. Your pump will beep (or vibrate) to indicate you have accessed Audio Bolus mode as well as indicate the step size you have set up.

   The number of beeps (or vibrate pulses) reminds you of the step size you have set.
   • 1 beep (or vibration pulse) indicates 0.1U step size
   • 2 beeps (or vibration pulses) indicates 0.5U step size
   • 3 beeps (or vibration pulses) indicates 1.0U step size
   • 4 beeps (or vibration pulses) indicates 5.0U step size

3. Press the Audio Bolus button once for each step size you have programmed to reach the desired total amount. For example, if you are using 1.0U step size and you wish to bolus 4 units, press the button 4 times. You will hear a beep tone or vibrate for each button press. If you are using 0.5U step size and you wish to bolus 4 units, press the button 8 times.

4. Within 5 seconds, your pump will respond with a number of confirmation beeps equal to the number of times you pressed the Audio Bolus button.

NOTE: Do Not press any of the function buttons until the confirmation beep sequence is complete. Once the confirmation beep sequence is complete, you can press any function button other than the Audio Bolus button or Contrast button to cancel.
5. Within 5 seconds, your pump will beep twice to “ask” you to confirm that you wish to activate delivery and “Confirm” is displayed on the Audio Bolus screen.

**NOTE:** You can press any function button other than the Audio Bolus button or Contrast button to cancel.

<table>
<thead>
<tr>
<th>Audio Bolus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Confirm</td>
</tr>
<tr>
<td>3.00U</td>
</tr>
<tr>
<td>Press any other key to CANCEL</td>
</tr>
</tbody>
</table>

6. Within 5 seconds, press the button again to activate delivery. Your pump will beep twice to confirm your delivery command. The DELIVERING bolus screen is displayed and your pump will beep once to signal the start of delivery and once to signal end of delivery (if you turned on Normal Bolus Sounds in Setup).

**NOTE:** You can press any function button other than the Audio Bolus button or Contrast button to cancel.

If you cancel a bolus delivery after you have activated it, the screen at right will be displayed. See Chapter 11 in Section I.

<table>
<thead>
<tr>
<th>Warning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bolus delivery canceled by user button press.</td>
</tr>
<tr>
<td>Delivered: 2.00U of 3.00U</td>
</tr>
<tr>
<td>Confirm</td>
</tr>
</tbody>
</table>

**NOTE:** If during a bolus delivery your low cartridge level is reached, your pump will not display the warning until after the bolus is completed. So you could possibly have less insulin available than your low cartridge setting.

The maximum number of Audio Bolus button presses is 20. Therefore, if you have set the step size to 0.1U, the maximum audio bolus amount is 2U. If you have set the step size at 0.5U, the maximum audio bolus amount is 10U and if your step size is 1.0U, the maximum audio bolus amount is 20U. With a 5.0U step size, the maximum cannot be greater than 35U, which is the maximum amount for any type of bolus.
ezBolus™

ezBolus™ is a one-button shortcut to the Normal Bolus screen whenever the Audio Bolus feature is not activated.

1. Press the black button on the right side of your pump once. The Normal Bolus screen is displayed. Program a Normal Bolus as usual.

Advanced Bolus Features

- ezCarb
- ezBG
- Combo Bolus
- Reminders

All Advanced Bolus features are activated in the Setup Advanced Menu. See Setup Advanced Screen 2 – Advanced Bolus Features and Multiple Basal Programs in Chapter 9 in Section I. When the Advanced Bolus features and Reminders are activated, the full BOLUS MENU is displayed.

⚠️ WARNING: Be sure to review all the values used in bolus calculations to make sure they are correct. You may always adjust the insulin units up or down before you decide to administer your bolus. If you dose an insulin amount that is too high or too low, this may result in a hypoglycemic or hyperglycemic event. Please discuss the bolus calculator feature and all relevant personal settings with your healthcare professional before using the calculator for the first time.
NOTE: When using the ezCarb or ezBG feature to calculate a “suggested” total bolus amount, that amount will be set to 0.00U whenever the calculation results in a negative number.

Before you begin using the ezBG and ezCarb features on your pump, take note how your pump determines the difference between your current BG and the BG Target range/value.

If you set a BG Target range, then the difference between your current BG and your BG Target range is determined as follows:

- If your current BG is above your BG Target range, your pump subtracts the midpoint of your BG Target range from your current BG.
  
  For example, if you set a BG Target range of 5.6 – 7.8 mmol/L (midpoint is 6.7 mmol/L) and your current BG is 8.9 mmol/L, then the resulting difference is 8.9 mmol/L – 6.7 mmol/L = 2.2 mmol/L.

- If your current BG is below your BG Target range, your pump subtracts the midpoint of your BG Target range from your current BG. The resulting difference will be a negative number.
  
  For example, if you set a BG Target range of 5.6 – 7.8 mmol/L (midpoint is 6.7 mmol/L) and your current BG is 4.5 mmol/L, then the resulting difference is 4.5 mmol/L – 6.7 mmol/L = – 2.2 mmol/L.

- If your current BG is within your BG Target range, then the resulting difference is automatically set to 0 mmol/L.
  
  For example, if you set a BG Target range of 4.5 – 6.1 mmol/L (midpoint is 5.3 mmol/L) and your current BG is 5.0 mmol/L, then the resulting difference is set to 0 mmol/L.

If you set a single BG Target value, then the difference between your current BG and your BG Target value is determined as follows:

- If your current BG is above your BG Target value, the pump subtracts your BG Target value from your current BG.
  
  For example, if you set a BG Target value of 5.8 mmol/L and your current BG is 6.1 mmol/L, then the resulting difference is 6.1 mmol/L – 5.8 mmol/L = 0.3 mmol/L.

- If your current BG is below your BG Target value, the pump subtracts your BG Target value from your current BG. The resulting difference will be a negative number.
  
  For example, if you set a BG Target value of 5.9 mmol/L and your current BG is 5.6 mmol/L, then the resulting difference is 5.6 mmol/L – 5.9 mmol/L = – 0.3 mmol/L.

- If your current BG is exactly equal to your BG Target value, then the resulting difference is automatically set to 0 mmol/L.
  
  For example, if you set a BG Target value of 5.0 mmol/L and your current BG is 5.0 mmol/L, then the resulting difference is set to 0 mmol/L.
ezCarb

This feature allows you to enter the number of carbs eaten, either manually, or by selecting items from a Food Database. Your pump will then automatically calculate your bolus dose, based on your I:C ratio, ISF and BG Target for the current time stored in the pump. Consult your healthcare team for your personal I:C ratios, ISFs and BG Target ranges. See Setup Advanced Screen 1 in Chapter 9 in Section I.

If the Insulin on Board feature is activated, your pump will take Insulin on Board amounts into consideration when calculating a suggested bolus amount. If the feature is not activated on your pump, dashes (---) will appear instead of a number in the “IOB” field.

You can use compatible database management software to customize and then upload a Food Database to your pump.

The following pages provide examples of how to use the ezCarb feature to calculate a suggested bolus amount to cover a set number of carbs and reduce a high BG. The first example shows how to manually enter a carb, and the second example shows how to select carb amounts from the ezCarb Food Database. The third example shows how to add a BG correction bolus to a carb bolus.

**NOTE:** Carb amounts you enter with the ezCarb feature will be stored in the pump along with insulin delivery data. You can use compatible diabetes management software to track, review and analyze pump carb and insulin data on your computer.
Calculating an ezCarb Bolus by Entering Carbs Manually

1. From the BOLUS MENU, scroll to “ezCarb”. Press \( \text{OK} \). The ezCarb Home screen is displayed.

2. The cursor will flash on the “Carbs” field to indicate that you can edit the total number of carbs eaten. Use the \( \uparrow / \downarrow \) buttons to enter the number of carbs. Press \( \text{OK} \). “Add BG” is highlighted. (See Adding a BG Correction Bolus to ezCarb in this chapter.)

**NOTE:**
- The max limit for carb totals that are used in the bolus calculator is 999g.
- The “Actual” field below the “Carbs” field reflects the carb amount entered from the Food Database and will be set to 0g (grams) for any carb amounts you entered manually.

3. Check that the grams of carb entered and your I:C ratio at the top of the screen are correct.
   
   **a.** If the entries are correct, scroll to “Show Result”. Press \( \text{OK} \) and go to Step 5.
   
   **b.** If not correct, scroll up to highlight the field and press \( \text{OK} \) to activate Edit Mode. Use \( \uparrow / \downarrow \) buttons to enter your I:C ratio and/or change the carb entry. Press \( \text{OK} \).

4. Scroll down to “Show Result”. Press \( \text{OK} \).
5. The Bolus Total screen is displayed and the suggested (calculated) bolus amount from your ezCarb Bolus appears in the “Total” field. Above the “Total” field are the three parts that are used in calculating the suggested “Total” amount. Carb refers to the carb correction amount that was calculated to cover the carbs you manually entered. BG refers to any BG correction bolus you may have added. In this example, you did not add a BG correction so the BG amount is set to 0.00U. IOB refers to the Insulin on Board amount from a previous bolus. In this example, the Insulin on Board feature is not turned on so dashes appear instead of a number.

Below the suggested “Total” amount is the bolus amount entry field where you can choose to deliver the suggested amount or adjust the amount as needed. This field will display 0.00U, and will be highlighted and flashing.

Press the \( \uparrow \) button once to change the amount to match the suggested bolus amount. Then use the \( \downarrow / \uparrow \) buttons to adjust the amount if necessary. When you have the desired delivery amount displayed, press \( \downarrow \).

**NOTE:**
- Calculated total units will be rounded to the nearest .05 units.
- If the maximum bolus limit you set in Advanced Features is less than the suggested “Total” bolus amount on the Bolus Total screen, the bolus amount entry field will change to that limit (rather than the suggested “Total” amount) when you press the \( \uparrow \) button once.

6. “Go” is highlighted. If you wish to give a Normal Bolus, press \( \downarrow \) to deliver.

7. If you wish to give a Combo Bolus, scroll to the “Type” field and press \( \downarrow \) to edit.

8. Use the \( \downarrow / \uparrow \) buttons to select bolus type: “Normal” (default) or “Combo”. Press \( \downarrow \).

9. “Go” is highlighted. Press \( \downarrow \).

**NOTE:** If you select the Combo Bolus option, the Combo Bolus screen will be displayed. See *Combo Bolus* in this chapter for instructions on delivering the Combo Bolus.
Calculating an ezCarb Bolus by Entering Carbs Using the Food Database

You may use compatible diabetes management software to customize and then upload a Food Database to your pump memory. Refer to your diabetes management software for information on uploading a Food Database to your pump.

The Food Database provides you with an easy and accurate way to obtain carb totals when using the bolus calculator in the ezCarb Bolus screen. A special “Favorites” selection in the Food Database lets you create a separate library of food items and carb amounts for your most preferred or frequently consumed food items.

1. From the BOLUS MENU, scroll to “ezCarb”. Press 📌.


3. The Food List screen will appear where you can access 16 food categories. The first six food categories appear on the Food List screen. Scroll to “←→” or “→→” and press 📌 to display the other food categories.

4. Scroll to desired food category and press 📌.

5. An additional menu of food items (brand choices) appears along with the carb totals for a typical serving size. Scroll up to the desired brand choice and press 📌. To display additional brand choices for this food category, scroll to “←→” or “→→” and press 📌.

NOTE: To return to the Food List to select a different category, scroll up and highlight “List” and press 📌.
6. Nutritional information is displayed for the standard serving size of that brand choice. The “Servings” field is highlighted and flashing.

7. Use the ▲/▼ buttons to adjust the serving size as needed and press 🕐. As you adjust the serving size, the nutritional units will automatically be re-calculated.

8. “Add Item” will be highlighted. Up to nine food items may be selected for use with the bolus calculator. Repeat steps 2-6 to add additional food items. When you are finished adding food items, use the ▲/▼ buttons to scroll to “Total” and press 🕐.

9. The ezCarb Total screen will appear and will list all your food items and their specific carb amounts. “Done” will be highlighted. If you have entered more than 5 food items, scroll to “←−” or “→−” and press 🕐 to review your other selected food items.

**NOTE:** The max limit for carb totals that are used in the bolus calculator is 999g. If your carb total from total Food Database items is more than 999g, the display will show the actual total you selected in the “Total” field. “MAX Carbs = 999(g)” will appear to let you know that the max carb limit (999g) will be used in the bolus calculator.
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10. Review the food items and carb amounts on the ezCarb Total screen.

a. If the food items and carb amounts are both correct, press \( \text{Done} \) with “Done” highlighted. The ezCarb Home screen will be displayed, with the total carb amount displayed in the “Carbs” field. The “Actual” field below the “Carbs” field also reflects the carb amount entered using the Food Database. Proceed to Adding a BG Correction Bolus to ezCarb section that follows to add a BG correction, or highlight “Show Result” and press \( \text{Done} \) to calculate the ezCarb bolus.

b. If the food items and carb amounts are not correct, scroll up to the food item you wish to edit and press \( \text{Done} \).

Nutritional information is displayed for that food item. The “Servings” field is highlighted and flashing. Use the \( \uparrow / \downarrow \) buttons to adjust the serving size as needed. To delete a food item, change the serving size to 0. When you are finished, press \( \text{Done} \) with “Total” highlighted. You will return to the ezCarb Total screen and your adjusted carb amounts and total will be displayed. When all entries are completed, highlight “Done” and press \( \text{Done} \) to return to the ezCarb Home screen.

NOTE: You may also review carb amounts for food items selected from the Food Database by highlighting “Review Total” on the ezCarb Home screen and pressing \( \text{Done} \). The ezCarb Total screen discussed in step 9 will appear where you adjust serving sizes or change food items as needed.
Adding a BG Correction Bolus to ezCarb

The following example shows how to add a BG correction bolus to a carb bolus.

1. On the ezCarb Home screen, enter the number of carbs. Press ➔.

2. “Add BG” is highlighted. Press ➔. The BG CORRECT screen is displayed.

**NOTE:**
- If you are using the Dexcom G4 PLATINUM Sensor and Transmitter with your pump, **Do Not** enter CGM readings as BG values. CGM readings (see Section II) should never be used to make insulin dosing or other treatment decisions. Always verify BG levels with a BG meter.
- The Food List option on ezCarb Home screen is not yet operational with the Animas® Vibe® Insulin Pump you received with this Owner’s Booklet.

3. The “Actual” field is highlighted and flashing to indicate Edit mode. Use the ▲/▼ buttons to enter your current (Active) BG value. Press ➔. “Show Result” is highlighted.

4. Check that the BG Target and ISF are correct.
   - If they are **correct**, press ➔ with “Show Result” highlighted.
   - If they are **not correct**, scroll up to highlight the fields and press ➔. Use the ▲/▼ buttons to adjust the values. Press ➔ to exit Edit mode. Scroll down to “Show Result”. Press ➔.
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5. The Bolus Total screen is displayed and the suggested (calculated) bolus amount from your ezCarb Bolus appears in the “Total” field. Above the “Total” field are the three parts that are used in calculating the “Total” suggested amount. Carb refers to the carb correction amount. BG refers to the BG correction amount calculated from the BG CORRECT screen. IOB refers to the Insulin on Board amount from previous bolus. In this example, the Insulin on Board feature is not turned on.

Below the suggested “Total” amount is the bolus amount entry field where you can choose to deliver the suggested amount or adjust the amount as needed. This field will display 0.00U, and will be highlighted and flashing. Press the button once to change the amount to match the suggested bolus amount. Then use the buttons to adjust the amount if necessary. When you have the desired delivery amount displayed, press .

NOTE:
• Calculated total units will be rounded to the nearest .05 units.
• If the maximum bolus limit you set in Advanced Features is less than the suggested “Total” bolus amount on the Bolus Total screen, the bolus amount entry field will change to that limit (rather than the suggested “Total” amount) when you press the button once.

6. “Go” is highlighted. Press to deliver as a Normal Bolus or scroll to the “Type” field to select Combo Bolus, then select “Go”.

If you selected the Combo Bolus option, you will begin the steps for delivering the ezCarb units as a Combo Bolus (see Combo Bolus in this chapter). The bolus amount you entered on the Bolus Total screen in step 6 will appear in the “Total” field on the first Combo Bolus screen.

7. If you are using the Dexcom G4 PLATINUM Sensor and Transmitter with your pump, you will be prompted on the display after the bolus is delivered to decide if the BG value you just entered should be used to calibrate your CGM (see Chapter 5 in Section II). Select “Yes” and press to use this BG value for CGM calibration.

NOTE:
• This screen will appear only if you are in an active CGM session. If you decide to use the BG value for CGM calibration, the value must be within 2.2 – 22.2 mmol/L, must be from a fingerstick BG test, and must have been taken within the last 5 minutes. Do Not use a BG test result from an alternative sampling site (e.g., palm or forearm) for CGM calibration.
• The pump display may time out before you have had a chance to confirm the use of the BG value for CGM calibration. In this case, the BG value will not be used for CGM calibration.
**ezCarb Examples with the Insulin on Board Feature Activated**

If the Insulin on Board feature is activated, your Insulin on Board amount will be displayed for reference on the ezCarb Bolus Total screen.

With the Insulin on Board feature activated, your suggested ezCarb total bolus amount will be as follows:

- If your current BG is above your target range, and your BG correction amount is greater than your Insulin on Board amount, then your suggested total bolus amount will be your Carb correction amount plus your BG correction amount minus your Insulin on Board amount. This is illustrated in example 2 that follows.

- If your current BG is above your target range, and your Insulin on Board amount is greater than your BG correction amount, then your suggested total bolus amount will be your Carb Correction amount. This is illustrated in example 1 that follows.

- If your current BG is within your target range, or equal to your target value, your suggested total bolus amount will be your Carb correction.

- If your current BG is below your target range, your suggested total bolus amount will be your Carb correction amount plus your BG correction amount minus your Insulin on Board amount. The suggested total bolus amount will be 0.00U whenever the calculation results in a negative number. A negative number implies that any additional insulin bolus amount would potentially result in over delivery of insulin and hypoglycemia. Discuss the calculator feature with your healthcare professional so you have a thorough understanding of how it works before you begin using it.

The following examples illustrate typical screens you may encounter when using the ezCarb feature with Insulin on Board activated. Insulin on Board amounts appear in the “IOB” field.

### Example 1

In Example 1, the Insulin on Board amount is displayed for reference but is not applied to the suggested total bolus amount. In this case, even though your current BG level is above the target range, there is sufficient Insulin on Board to cover the high BG. Therefore, the only insulin amount suggested is to cover the carbs being consumed.

### Example 2

In Example 2, the Insulin on Board amount is displayed for reference and is applied to the suggested total bolus amount. In this case, your current BG is above your target range, and your BG correction amount is greater than your Insulin on Board amount. Therefore, the insulin amount suggested is to cover the carbs being consumed, and any BG correction amount not already covered by your Insulin on Board.

### Example 3

In Example 3, your current BG is below your target range, resulting in a negative BG correction amount. In this case, your carb amount needs to be offset by your BG correction amount since you are already below your target range. Therefore, the insulin amount suggested is to cover only the carb amount not already covered by your Insulin on Board amount and the negative BG correction amount.
ezBG

This feature allows you to enter your current (Actual) BG value and your pump will automatically calculate a BG correction bolus based on your ISF and BG Target range for the current time stored in the pump. If the Insulin On Board feature is activated, your pump will subtract your Insulin On Board amount from the BG correction amount before calculating and displaying the suggested bolus amount.

1. From the BOLUS MENU, select “ezBG”. Press the \( \text{button} \).

2. The “Actual” field will be highlighted and flashing to indicate Edit mode. Use the \( \uparrow \) \( \downarrow \) buttons to enter your actual BG value. Press the \( \text{button} \) to confirm the entry and exit Edit mode.

   NOTE: If you are using the Dexcom G4 PLATINUM Sensor and Transmitter with your pump, Do Not enter CGM readings (see Section II) as BG values. CGM readings should never be used to make insulin dosing or other treatment decisions. Always verify BG levels with a fingerstick test from your BG meter.

The difference between your current (Actual) BG and BG Target appears below the “Target” field. The difference is calculated according to whether your current (Actual) BG is within, below, or above your BG Target. Refer to Setup Advanced Screen1 – BG Target Ranges in Chapter 9, and Chapter 10 in Section I for information on how your BG Target settings impact the calculation of a BG correction bolus.

3. Check to be sure the BG Target and Insulin Sensitivity Factor (ISF) are correct. Your healthcare team will give you these values. If you need to edit these fields, scroll up to highlight the field and press \( \text{button} \) to activate Edit mode. Use \( \uparrow \) \( \downarrow \) buttons to change target. Press \( \text{button} \) to confirm and to exit Edit mode.

4. “Show Result” is highlighted. Press \( \text{button} \).
5. The ezBG Total screen is displayed and the suggested bolus amount from your ezBG Bolus appears in the “Total” field. Above the “Total” field are the two parts that are used in calculating the suggested “Total” amount. BG refers to the BG correction amount calculated from the previous ezBG screen. IOB refers to the Insulin on Board amount from a previous bolus.

Below the suggested amount “Total” is the bolus amount entry field where you can choose to deliver the suggested amount or adjust the amount as needed. This field will display 0.00U, and will be highlighted and flashing. Press the button once to change the amount to match the suggested bolus amount. Then use the buttons to adjust the amount if necessary. When you have the desired delivery amount displayed, press . With “Go” highlighted, press to deliver the bolus.

NOTE:
• If the BG amount on the ezBG Total screen is a negative number, the suggested “Total” amount will be set to 0.00U.
• Calculated total units will be rounded to the nearest .05 units.
• If the maximum bolus limit you set in Advanced Features is less than the suggested “Total” bolus amount on the Bolus Total screen, the bolus amount entry field will change to that limit (rather than the suggested “Total” amount) when you press the button once.

6. If you are using the Dexcom G4 PLATINUM Sensor and Transmitter with your pump, you will be prompted on the display after the bolus is delivered to decide if the BG value you just entered should be used to calibrate your CGM (see Chapter 5 in Section II). Select “Yes” and press to use this BG value for CGM calibration. If the pump display times out before you select “Yes”, the BG value will not be used for CGM calibration.

NOTE:
• If you enter a BG amount below 3.9 mmol/L or above 13.9 mmol/L, your pump will alert you that you have entered an out of range BG. To confirm the Alert, press . Your pump will still use the out of range BG value in ezCarb and ezBG bolus calculations, but treat the out of range BG as recommended by your healthcare team.

• The LOW BG and HIGH BG Alerts discussed here are different than the Low and High Glucose Alerts that apply only to CGM readings when using the Dexcom G4 PLATINUM Sensor and Transmitter with your pump. See Chapter 2 in Section II for more information on CGM Alerts.
ezBG Examples with the Insulin on Board Feature Activated

If the Insulin on Board feature is activated, your Insulin on Board amount will be displayed for reference on the ezBG Total screen.

With the feature activated, your suggested ezBG total bolus amount will be as follows:

• If your current BG is above your target range, and your BG correction amount is greater than your Insulin on Board amount, the suggested total bolus will be your BG correction amount minus your Insulin on Board amount. This is illustrated in example 1 below.

• In all other situations, your suggested total bolus will be 0.00U.

The following examples illustrate typical screens you may encounter when using the ezBG feature with Insulin on Board activated. Insulin on Board amounts appear in the “IOB” field.

In Example 1, the Insulin on Board amount is displayed for reference and is applied to the suggested total bolus amount.

In Examples 2 and 3, the Insulin on Board amount is displayed for reference but is not applied to the suggested total bolus amount. In Example 3, even though your current BG level is above the target range, there is sufficient Insulin on Board to cover the high BG. Therefore, no insulin amount is suggested to cover the high BG. In Example 2, your BG level is low. Therefore, no insulin amount is suggested.
CHAPTER 10 - USING ADVANCED FEATURES

Combo Bolus

The Combo Bolus feature is used to “split” your bolus into a Normal and Extended Bolus. This feature is useful for consumption of high carb/high fat meals such as pizza, that have prolonged carb absorption. It is also useful if you will be eating (“grazing”) over a few hours or if you have gastroparesis, where food remains in the stomach for a longer period than normal. You can program part of your bolus amount to be delivered immediately (Normal portion) and part of it to be delivered slowly over the course of up to 12 hours (Extended portion). Your healthcare team can help you determine the “split” of Normal to Extended insulin amounts, as well as the duration that is most appropriate for you.

1. From the BOLUS MENU, select “Combo Bolus”. If you used the ezCarb Bolus option to calculate a bolus and chose to deliver it as a Combo Bolus, you will begin at the Combo Bolus screen in step 2.

2. Use the ↑/↓ buttons to enter the Total bolus amount. Press Go. “Go” is highlighted. The factory default setting for Duration is 30 minutes, and the Ratio is 0% Normal and 100% Extended. If these settings are appropriate, press Go to deliver.

3. To change either the Duration or Ratio, scroll up to the desired field and press Go to activate Edit mode.

4. Use the ↑/↓ buttons to change settings. As you change the Ratio by percentage, the amount in units is automatically changed. You cannot change the ratio by units, only by percentage.

5. When settings are correct, press Go to confirm and exit Edit Mode.

NOTE: Your pump is “smart”; it will remember your last duration and the ratio (as percentages) you programmed. So if you use the same duration and ratio for certain types of meals, you need only change the total bolus amount the next time you use this feature. However, the last programmed Combo Bolus settings will be cleared each time you change the battery.
6. Scroll to “Go” and press \( \mathbin{\text{Go}} \) to activate. The Home screen shows Combo Bolus Active.

To cancel an active Combo Bolus from the BOLUS MENU, select “Combo Bolus”. Details of the active Combo Bolus will be displayed.

Scroll to “CANCEL” and press \( \mathbin{\text{Go}} \) to cancel the Combo Bolus.

NOTE: If you Suspend your pump, any active Combo Bolus will also be cancelled and the screen display will alert you. Combo Bolus is also cancelled when you change the battery and/or prime your pump.

Reminders

This feature allows you to set personal reminders if you have activated the Reminders feature (see Setup Advanced Screen 2 – Advanced Bolus Features and Multiple Basal Programs in Chapter 9 in Section I). You can set two separate reminders to prompt you at two designated times during the day, and one reminder to check BG at a certain time after a bolus. Confirm the Reminder by pressing \( \mathbin{\text{Go}} \). Once you have confirmed the Reminder, you will not be alerted again.

Bolus Reminders for Time of Day

1. From the BOLUS MENU, select “Reminders”. Press \( \mathbin{\text{Go}} \).

2. The “Reminder-1” field will be highlighted. Press \( \mathbin{\text{Go}} \) to enter Edit mode. Use the \( \mathbin{\text{A}} \)/\( \mathbin{\text{V}} \) buttons to turn on or off. Press \( \mathbin{\text{Go}} \) to confirm and exit Edit mode.
3. The “Time” field for this reminder will be highlighted. Press \( \mathbb{E} \) to activate Edit mode. Use the \( \Delta/\nabla \) buttons to enter the time you wish a reminder to sound (or vibrate, if that is the setting you selected in the SETUP SOUND menu). Press \( \mathbb{E} \) to confirm your setting and exit Edit mode.

When the feature is turned on, your pump will display the “Reminder” screen on the right at the selected time of day.

4. Repeat for Reminder 2.

### BG Check Reminder

1. From the REMINDERS menu, select “BG Check” to remind you to check your BG. Press \( \mathbb{E} \) to activate Edit mode to turn this reminder on or off. Press \( \mathbb{E} \) to confirm and exit Edit mode.

   **NOTE:** The BG Check reminder you set here is independent of the “Enter BG” prompts you will see when using the Dexcom G4 PLATINUM Sensor and Transmitter with your pump.

2. Scroll down to highlight the “After Bolus” field. Press \( \mathbb{E} \) to select the field and activate Edit mode. Use the \( \Delta/\nabla \) buttons to enter how long after a Normal Bolus you wish your pump to sound (or vibrate) to remind you to check your BG. You can select a reminder time of 1, 2, 3 or 4 hours.

   When this feature is turned on, your pump will display the BG Reminder screen immediately after a bolus. On this screen you can use the \( \Delta/\nabla \) buttons to select a different reminder time (1, 2, 3, or 4 hours), or choose not to be reminded by entering 0. For example, if you have given a bolus in the evening, you may not wish to have the Reminder sound while you are sleeping. If the Reminder is not confirmed, battery life will be reduced and the Replace Battery Alarm will appear sooner than expected.

   **NOTE:** The BG Reminder screen is not displayed when you use the Audio Bolus feature.
NOTE: When you enter a time, your pump will sound a reminder and display this screen at that time after any Normal Bolus or Audio Bolus is delivered, including the Normal portion of a Combo Bolus. If you program an Extended Bolus only, the reminder will sound at the default time you have set.

3. When finished setting reminders, scroll to “Main Menu” and press \( \text{Confirm} \) to display the MAIN MENU.
Alerts, Warnings and Alarms

Your pump has a “progressive” warnings and alarms safety system. This means if you do not confirm the warning or alarm, it will get progressively louder and change to a sweep tone with vibrate within one hour. At the high volume stage, if you do not confirm the warning or alarm, the sweep tone will begin and will not stop until appropriate action is taken.

**NOTE:** Your pump uses battery power to notify you of alerts, warnings, and alarms. If you do not confirm the notification, your pump will continue to use battery power as the notifications repeat and progress. This will result in reduced battery life and the Replace Battery Alarm screen appearing sooner than expected.

Additionally, certain warnings (e.g., Low Cartridge Warning, Occlusion Alarm) take precedence over less critical ones (e.g., Low Battery Warning). This means if you do not confirm the more critical warning, battery life will be reduced and your pump may skip the Low Battery Warning and go directly to the Replace Battery Alarm.

If multiple alerts, warnings, or alarms occur simultaneously, the pump will display the most critical one first. After confirming the condition with the highest priority (the one currently displayed), the alert, alarm, or warning with the next highest priority will be displayed until confirmed. Each alert, alarm, and/or warning must be confirmed separately until all simultaneous conditions have been confirmed.

Take special note of alerts, alarms and/or warnings that include messages about insulin delivery continuing or stopping, particularly when they occur simultaneously on the pump. It is possible to see a “Deliveries continue” message followed by a “No delivery” message. “Deliveries continue” means insulin delivery is not impacted by the alert, alarm and/or warning that prompted the message. “No delivery” means insulin delivery has stopped and will remain stopped until the problem that caused the alert, alarm and/or warning to appear is resolved.

Alerts are automatically displayed to remind you of a function that you have set or a condition that exists. Warnings are triggered for a variety of reasons. They require you to confirm the warning by pressing and/or taking action to address the warning. Alarms are triggered by several conditions. All require you to address the alarm by taking appropriate action in order to clear the alarm condition.

- Indicates that this alert, warning or alarm can play a tune as the initial notification for medium and high volume settings. The pump default for sounds at the low volume setting is a factory-set sound.

There is an additional list of warnings, alarms and alerts that will display/sound on your pump related to the use of CGM functions when you begin using your Dexcom G4 PLATINUM Sensor and Transmitter with your pump. See Chapter 10 in Section II for more information on this list. Certain CGM warnings, alarms and alerts may display/sound on your pump if you enter CGM information without the intention of initiating a valid CGM session. An example is entering a valid Transmitter ID without actually inserting a Transmitter/Sensor.

**NOTE:** Alarms, warnings and alerts will display actual insulin units during pump operation, rather than the “XX” or “XXX” units displayed on some of the screens in this list.
### Alerts, Warnings and Alarms

<table>
<thead>
<tr>
<th>Alert: Active Basal Program Empty</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cause</strong></td>
</tr>
<tr>
<td><strong>Effect</strong></td>
</tr>
<tr>
<td><strong>Message</strong></td>
</tr>
<tr>
<td><strong>Action</strong></td>
</tr>
<tr>
<td><strong>Beeps/Vib</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Alert: Temp Basal Minimum Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cause</strong></td>
</tr>
<tr>
<td><strong>Effect</strong></td>
</tr>
<tr>
<td><strong>Message</strong></td>
</tr>
<tr>
<td><strong>Action</strong></td>
</tr>
<tr>
<td><strong>Beeps/Vib</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Alert: Suspend (Temp Basal/Combo Bolus Cancelled)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cause</strong></td>
</tr>
<tr>
<td><strong>Effect</strong></td>
</tr>
<tr>
<td><strong>Message</strong></td>
</tr>
<tr>
<td><strong>Action</strong></td>
</tr>
<tr>
<td><strong>Beeps/Vib</strong></td>
</tr>
</tbody>
</table>
## Alerts, Warnings and Alarms

### Alert: Low BG

<table>
<thead>
<tr>
<th>Cause</th>
<th>BG entry below 3.9 mmol/L.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effect</td>
<td>Requires user confirmation to continue.</td>
</tr>
<tr>
<td>Message</td>
<td>Displayed until confirmed or until pump goes to sleep.</td>
</tr>
<tr>
<td>Action</td>
<td>Press to confirm.</td>
</tr>
<tr>
<td>Beeps/Vib</td>
<td>User selected, one time. No progression.</td>
</tr>
</tbody>
</table>

**NOTE:** The LOW BG Alert is different than the Low Glucose Alert that applies only to CGM readings when using the Dexcom G4 PLATINUM Sensor and Transmitter with your pump. Refer to Chapter 2 in Section II for information on CGM-related alerts.

### Alert: High BG

<table>
<thead>
<tr>
<th>Cause</th>
<th>BG entry above 13.9 mmol/L.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effect</td>
<td>Requires user confirmation to continue.</td>
</tr>
<tr>
<td>Message</td>
<td>Displayed until confirmed or until pump goes to sleep.</td>
</tr>
<tr>
<td>Action</td>
<td>Press to confirm.</td>
</tr>
<tr>
<td>Beeps/Vib</td>
<td>User selected, one time. No progression.</td>
</tr>
</tbody>
</table>

**NOTE:** The HIGH BG alert is different than the High Glucose alert that applies only to CGM readings when using the Dexcom G4 PLATINUM Sensor and Transmitter with your pump. Refer to Chapter 2 in Section II for information on CGM-related alerts.
Alerts, Warnings and Alarms

### Alert: Clear Program Basal Segments

<table>
<thead>
<tr>
<th>Cause</th>
<th>Clear command selected from BASAL OPTIONS screen.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effect</td>
<td>Requires user confirmation to continue.</td>
</tr>
<tr>
<td>Message</td>
<td>Displayed until one of the two options is selected or until pump goes to sleep.</td>
</tr>
<tr>
<td>Action</td>
<td>Select “Clear Program” or “Basal Options”.</td>
</tr>
<tr>
<td>Beeps/Vib</td>
<td>User selected, one time. No progression.</td>
</tr>
</tbody>
</table>

### Alert: Basal Program Display Change

<table>
<thead>
<tr>
<th>Cause</th>
<th>Changing display of basal programs from 4 to 1 but program 1 is not currently active.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effect</td>
<td>Requires user confirmation to continue.</td>
</tr>
<tr>
<td>Message</td>
<td>Displayed until confirmed or until pump goes to sleep.</td>
</tr>
<tr>
<td>Action</td>
<td>Press to confirm.</td>
</tr>
<tr>
<td>Beeps/Vib</td>
<td>User selected, one time. No progression.</td>
</tr>
</tbody>
</table>

### Warning: Basal Delivery Suspended

<table>
<thead>
<tr>
<th>Cause</th>
<th>Basal Edit was not saved.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effect</td>
<td>Basal delivery stopped.</td>
</tr>
<tr>
<td>Message</td>
<td>Displayed when manually awakened until confirmed.</td>
</tr>
<tr>
<td>Action</td>
<td>Press to select “Edit Basal”. Review basal edits and select “Save/Review”.</td>
</tr>
<tr>
<td>Beeps/Vib</td>
<td>User selected, every 3 minutes until confirmed. If not confirmed, progresses to sweep/vib within one hour.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Alert</th>
<th>Clear Program deletes all basal segments in this program.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Confirm</td>
<td>1-weekday must be the active program to change the basal display setting.</td>
</tr>
<tr>
<td>Warning</td>
<td>Basal edit not saved. Basal delivery suspended.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Alert</th>
<th>Clear Program Basal Options</th>
</tr>
</thead>
</table>
### Alerts, Warnings and Alarms

#### Warning: Suspend

<table>
<thead>
<tr>
<th>Cause</th>
<th>Pump suspended manually.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effect</td>
<td>All insulin deliveries stop.</td>
</tr>
<tr>
<td>Message</td>
<td>Displayed each time pump is awakened. Then displayed once every 3 minutes upon confirmation, and once every 15 minutes if not confirmed, until action is taken.</td>
</tr>
<tr>
<td>Action</td>
<td>Press to confirm. Resume delivery.</td>
</tr>
<tr>
<td>Beeps/Vib</td>
<td>User selected, once every 3 minutes if confirmed, once every 15 minutes if not. No progression. Sweep/vib within one hour only if bolus or basal delivery was in progress when pump was suspended.</td>
</tr>
</tbody>
</table>

#### Warning: No Cartridge Detected, Deliveries Disabled

<table>
<thead>
<tr>
<th>Cause</th>
<th>No cartridge detected after “Load cartridge” step during Prime/Rewind.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effect</td>
<td>No insulin deliveries.</td>
</tr>
<tr>
<td>Message</td>
<td>Displayed when manually awakened until confirmed.</td>
</tr>
<tr>
<td>Action</td>
<td>Press to confirm. Be sure Prime/Rewind sequence is completed with cartridge properly in place.</td>
</tr>
<tr>
<td>Beeps/Vib</td>
<td>User selected, once every 3 minutes. No progression if confirmed each time displayed. Sweep/vib within one hour if not confirmed.</td>
</tr>
</tbody>
</table>
### Alerts, Warnings and Alarms

#### Warning: Low Battery

<table>
<thead>
<tr>
<th><strong>Cause</strong></th>
<th>Battery life will last a minimum of 30 minutes.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Effect</strong></td>
<td>Insulin deliveries continue.</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Displays when pump is awake until confirmed. Displays when triggered by event (such as bolus) &amp; when manually awakened.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Press to confirm. Insert new Battery.</td>
</tr>
<tr>
<td><strong>Beeps/Vib</strong></td>
<td>User selected, every 3 minutes until confirmed. If not confirmed, progresses to sweep/vib within one hour.</td>
</tr>
</tbody>
</table>

#### Warning: Low Cartridge

<table>
<thead>
<tr>
<th><strong>Cause</strong></th>
<th>Low insulin level reached.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Effect</strong></td>
<td>Insulin deliveries may continue until Empty Cartridge alarm is triggered.</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Displayed when manually awakened until confirmed.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Press to confirm. Replace with filled cartridge.</td>
</tr>
<tr>
<td><strong>Beeps/Vib</strong></td>
<td>User selected, every 3 minutes until confirmed. If not confirmed, progresses to sweep/vib within one hour.</td>
</tr>
</tbody>
</table>

#### Warning: Exceeds Max Bolus

<table>
<thead>
<tr>
<th><strong>Cause</strong></th>
<th>Audio bolus delivery exceeds user-set maximum.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Effect</strong></td>
<td>Bolus delivery stops.</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Displayed when manually awakened until confirmed.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Press to confirm. Reprogram max bolus amount in the Setup Advanced menu.</td>
</tr>
<tr>
<td><strong>Beeps/Vib</strong></td>
<td>User selected, every 3 minutes until confirmed. If not confirmed, progresses to sweep/vib within one hour.</td>
</tr>
</tbody>
</table>
### Alerts, Warnings and Alarms

#### Warning: Exceeds Max TDD

<table>
<thead>
<tr>
<th>Cause</th>
<th>Bolus delivery exceeds user-set maximum Total Daily Dose (TDD).</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effect</td>
<td>All insulin deliveries stop. Any Combo Bolus or Temp Basal is cancelled.</td>
</tr>
<tr>
<td>Message</td>
<td>Displayed when manually awakened until confirmed.</td>
</tr>
<tr>
<td>Action</td>
<td>Press to confirm. Reprogram max TDD amount in the Setup Advanced menu. If the Warning is not confirmed by the time your pump clock passes midnight, the message will continue to be displayed.</td>
</tr>
<tr>
<td>Beeps/Vib</td>
<td>User selected, every 3 minutes until confirmed. If not confirmed, progresses to sweep/vib within one hour.</td>
</tr>
</tbody>
</table>

#### Warning: Exceeds Max 2-hour Delivery

<table>
<thead>
<tr>
<th>Cause</th>
<th>Combined basal and bolus delivery exceeds user-set 2-hour maximum.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effect</td>
<td>Insulin delivery stops. Any Combo Bolus or Temp Basal is cancelled.</td>
</tr>
<tr>
<td>Message</td>
<td>Displayed when manually awakened until confirmed.</td>
</tr>
<tr>
<td>Action</td>
<td>Press to confirm. Reprogram Max 2-Hr amount in the Setup Advanced menu.</td>
</tr>
<tr>
<td>Beeps/Vib</td>
<td>User selected, every 3 minutes until confirmed. If not confirmed, progresses to sweep/vib within one hour.</td>
</tr>
</tbody>
</table>

**NOTE:** If the Exceeds Max TDD or the Exceeds Max 2-hour Delivery warning appears and is not confirmed, the warning will re-appear every 3 minutes. Basal deliveries will stop until either the warning is confirmed or that time period is complete. For the Exceeds Max TDD warning, Basal deliveries will resume the following day (beginning at midnight). For the Exceeds Max 2-hour Delivery warning, Basal deliveries will resume the next 2-hour time period.
## Alerts, Warnings and Alarms

### Warning: Exceeds Max Basal

<table>
<thead>
<tr>
<th><strong>Cause</strong></th>
<th>Basal delivery rate (or Temp Basal delivery) exceeds user-set maximum.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Effect</strong></td>
<td>Basal delivery stops.</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Displayed when awakened (by basal delivery attempt every 3 minutes or manually) until confirmed.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Press ( 	ext{Confirm} ) to confirm. Reprogram Max Basal amount in the Setup Advanced menu (or reprogram Temp Basal).</td>
</tr>
<tr>
<td><strong>Beeps/Vib</strong></td>
<td>User selected, every 3 minutes until confirmed. If not confirmed, progresses to sweep/vib within one hour.</td>
</tr>
</tbody>
</table>

### Warning: Delivery Cancelled due to Low Cartridge

<table>
<thead>
<tr>
<th><strong>Cause</strong></th>
<th>Basal or Bolus delivery exceeds insulin remaining in cartridge.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Effect</strong></td>
<td>Basal or Bolus delivery stopped.</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Once per occurrence and each time awakened until confirmed.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Press ( 	ext{Confirm} ) to confirm. Replace with full cartridge.</td>
</tr>
<tr>
<td><strong>Beeps/Vib</strong></td>
<td>User selected, every 3 minutes until confirmed. If not confirmed, progresses to sweep/vib within one hour.</td>
</tr>
</tbody>
</table>

### Warning: No Prime, No Delivery

<table>
<thead>
<tr>
<th><strong>Cause</strong></th>
<th>Pump is not primed.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Effect</strong></td>
<td>All insulin deliveries stop.</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Every 3 minutes or when awakened manually.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Press ( 	ext{Confirm} ) to confirm. Disconnect, reprime.</td>
</tr>
<tr>
<td><strong>Beeps/Vib</strong></td>
<td>User selected, every 3 minutes until confirmed. If not confirmed, progresses to sweep/vib within one hour.</td>
</tr>
</tbody>
</table>
Alerts, Warnings and Alarms

### Warning: Bolus Delivery Cancelled

<table>
<thead>
<tr>
<th><strong>Cause</strong></th>
<th>User pressed function button on pump during bolus delivery.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Effect</strong></td>
<td>Bolus delivery stopped.</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Every 3 minutes or when awakened manually.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Press ( \text{confirm} ) to confirm. If button was pressed accidentally, repeat steps to deliver remaining insulin units.</td>
</tr>
<tr>
<td><strong>Beeps/Vib</strong></td>
<td>User selected, every 3 minutes until confirmed. If not confirmed, progresses to sweep/vib within one hour.</td>
</tr>
</tbody>
</table>

### Alarm: Occlusion

<table>
<thead>
<tr>
<th><strong>Cause</strong></th>
<th>Occlusion/blockage detected in the insulin delivery path.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Effect</strong></td>
<td>All insulin deliveries stop.</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Continuous until confirmed.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Press ( \text{confirm} ) to confirm. Disconnect and prime to clear occlusion. Option to select Suspend (see Suspend Warning screen in this chapter).</td>
</tr>
<tr>
<td><strong>Beeps/Vib</strong></td>
<td>User selected, every 3 minutes until confirmed. If not confirmed, progresses to sweep/vib within one hour. (Once confirmed, No Prime warning triggered, see No Prime Warning screen in this chapter.)</td>
</tr>
</tbody>
</table>
# Alerts, Warnings and Alarms

<table>
<thead>
<tr>
<th>Alarm: Empty Cartridge</th>
<th>![Empty Cartridge Alarm]</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cause</strong></td>
<td>Cartridge empty.</td>
</tr>
<tr>
<td><strong>Effect</strong></td>
<td>All insulin deliveries stop.</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Continuous until confirmed.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Press ( \text{确认} ) to confirm. Replace with full cartridge. Option to select “Suspend” (see Suspend Warning screen in this chapter.)</td>
</tr>
<tr>
<td><strong>Beeps/Vib</strong></td>
<td>User selected, every 3 minutes until confirmed. If not confirmed, progresses to sweep/vib within one hour. (Once confirmed, No Prime warning triggered, see No Prime Warning screen in this chapter.)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Alarm: Replace Battery</th>
<th>![Replace Battery Alarm]</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cause</strong></td>
<td>Battery life has a minimum of 3 minutes remaining.</td>
</tr>
<tr>
<td><strong>Effect</strong></td>
<td>All insulin deliveries stop.</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Continuous until battery is removed or has no power remaining.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Remove battery to silence alarm. Insert new battery.</td>
</tr>
<tr>
<td><strong>Beeps/Vib</strong></td>
<td>MAX volume every 3 minutes until action taken. If not confirmed, will progress to 4 long tones.</td>
</tr>
</tbody>
</table>
CHAPTER 11 - PUMP SAFETY SYSTEM AND ALARMS

Alerts, Warnings and Alarms

### Alarm: Call Service

<table>
<thead>
<tr>
<th><strong>Cause</strong></th>
<th>Hardware or software problem detected.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Effect</strong></td>
<td>All insulin deliveries suspended.</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Continuous until battery is removed.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Press to silence alarm for 30 minutes (alarm can only be silenced once). Contact Animas Customer Technical Support.</td>
</tr>
<tr>
<td><strong>Beeps/Vib</strong></td>
<td>Fixed beep/vib tone. If not confirmed, progresses to sweep/vib within one hour.</td>
</tr>
</tbody>
</table>

**NOTE:** Some Call Service Alarms have a unique sound/vibration sequence and cannot be silenced by pressing .

For these Alarms the usual progression is replaced by 3 chirps/vib repeated every 9 minutes for the first half hour. This is followed by 4 long tones/vib after that.

### Alarm: Auto-Off

<table>
<thead>
<tr>
<th><strong>Cause</strong></th>
<th>Suspended due to no key press in user-set time period.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Effect</strong></td>
<td>All insulin deliveries stop.</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Continuous until confirmed.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Press to confirm. Adjust time period in the Setup Advanced menu.</td>
</tr>
<tr>
<td><strong>Beeps/Vib</strong></td>
<td>User-selected, every 3 minutes until confirmed. If not confirmed, progresses to sweep/vib within one hour. (Once confirmed, No Prime warning triggered, see No Prime Warning screen in this chapter.)</td>
</tr>
</tbody>
</table>
CHAPTER 12 - CARE AND MAINTENANCE OF YOUR INSULIN PUMP

Section I of this Owner’s Booklet covers safety, maintenance, troubleshooting, lifestyle, and technical information about your Animas® Vibe® Insulin Pump.

Care and Maintenance of your Animas® Vibe® Insulin Pump

The Vents
Your pump features a redundant Vent Safety System. Vents serve two purposes. First, they allow air to enter and exit your pump so that pressure is equalized under a variety of environmental circumstances, such as changes in altitude. Second, the vents are backed by a special membrane, which keeps water from entering your pump.

Battery Cap with O-ring and Vent
Your battery cap contains an o-ring and vent. The vent is a tiny hole backed by a membrane, which allows air to pass through but prevents water from entering. The o-ring helps to keep your pump waterproof. It is recommended that you change the battery cap/vent every six months. If you work in a dusty environment such as a construction site, mill, cement factory, etc., or if you are a frequent swimmer, you should change your battery cap every 3 months. You can contact Animas Canada Customer Care at 1-866-406-4844 to order an extra battery cap.

⚠️ WARNING: Under no circumstances should you introduce any kind of sharp object into the vent openings to clean them. Doing so could compromise your pump’s waterproof capabilities. If at any time you suspect the vent opening is clogged, replace the battery cap.

Cleaning
⚠️ CAUTION: Do Not use household or industrial cleaners, chemicals, solvents, bleach, scouring pads or sharp instruments to clean your pump. Never put your pump in the dishwasher or use very hot water to clean it. Use only a very mild detergent (for example a drop of liquid soap in a glass of water) and a lint-free cloth.
Never put your pump in a microwave oven or baking oven to dry it. Use a soft towel.
Never clean the battery or insulin cartridge compartments.
General Wear and Tear

If you drop your pump or it has been hit against something hard, inspect it to be sure it is still working properly. Check that the display screen is working and clear, that the cartridge cap, battery cap and infusion set are properly in place. Check for leaks around the cartridge by wrapping a piece of tissue around the connection area. Cracks, chips or damage to your pump may impact the battery contact and/or the waterproof feature of your pump. Contact Animas Customer Technical Support at 1-877-937-7867 if you identify or suspect your pump is damaged. They will help determine if your pump should be replaced.

Disposal

International regulations require controlled disposal of devices such as insulin pumps. Contact Animas Canada Customer Care at 1-866-406-4844 for disposal instructions.

Dispose of batteries according to your local environmental regulations.
Your pump display Lens Protection Film Kit contains 3 lens protection films, the film application solution and a rubber squeegee.

Follow the instructions below for proper application.

1. Wash your hands with mild soap and water.

2. Slowly remove existing lens protection film.
   - Do Not use heat or metal instruments.

3. Clean lens with a dry lint free cloth.
   - Film can be applied without disconnecting pump.

   - Solution contains isopropyl alcohol.
   - Shake before use.
   - Do Not ingest.

5. Remove lens film from paper backing.
   - Touch with wet fingers only.
   - Hold adhesive side up.
   - Do Not let film adhere to itself.

**NOTE:** Before proceeding, make sure the film orientation matches the frame orientation of the lens.

7. Place film onto lens.
   - Place adhesive side down, facing lens.
   - **Do Not** press into place.
   - If needed, remove film, reapply solution, and reposition film to align all edges.

   - Start from center of lens and pull in all directions, to remove moisture and bubbles from under the surface.
   - Pull squeegee across all corners and edges to adhere film.

9. Remove excess moisture with lint free cloth.
   - If necessary, apply direct pressure to film edges until film is adhered to lens.
   - Your pump can be used immediately after film application.
   - Wash hands thoroughly after film application.

**IMPORTANT INFORMATION:** The viewing area of the pump display should be visually clear after film application. If air or moisture bubbles are visible after the film is installed, peel the film up from one edge at least to the location of the bubbles. Re-spray the film adhesive and the pump surface with solution, and re-apply the film with the squeegee. If this does not remove the bubbles, reinstall a new film.
It is a good idea to set up a troubleshooting procedure to use anytime you suspect something might be wrong. Work with your healthcare team to establish guidelines in the event of a problem.

**Hypoglycemia**

⚠️ **WARNING:** Low BG is a risk for anyone using insulin therapy. You may experience one or more of the following symptoms:

- Shakiness; rapid heart rate; nervousness; perspiration; cold, clammy skin; weakness; blurred or double vision; sudden hunger; tingling in your hands, lips, or tongue; headache and confusion.

- If you experience symptoms of hypoglycemia, you should immediately eat a quick-acting carbohydrate (glucose tablets, juice, or hard candy).
- If your BG is abnormally low, Do Not attempt to program your pump yourself. Get help.
- Treat hypoglycemia immediately.
- If you are using the Dexcom G4 PLATINUM Sensor and Transmitter with your pump, Do Not rely on CGM readings if you experience symptoms of hypoglycemia. If you suspect hypoglycemia, obtain a fingerstick value with your BG meter. See *Section II*.

**Rule of 15***

1. Consume 15 grams of quick-acting carbohydrate
2. Wait 15 minutes
3. Recheck BG with BG meter
4. If BG is < 3.9 mmol/L, repeat above

**Troubleshooting hypoglycemia:**

**INSULIN PUMP**

<table>
<thead>
<tr>
<th>POSSIBLE CAUSE OF LOW BG</th>
<th>SUGGESTED SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basal rate programmed incorrectly</td>
<td>Check times and rates, remember to review basal programs when making any changes.</td>
</tr>
<tr>
<td>Clock time incorrect</td>
<td>Reset clock to current time, being careful to check AM &amp; PM.</td>
</tr>
<tr>
<td>Pump exposed to MRI</td>
<td>Disconnect from pump. Contact Animas Customer Technical Support.</td>
</tr>
</tbody>
</table>

### Troubleshooting hypoglycemia:

#### FOOD INTAKE

<table>
<thead>
<tr>
<th>POSSIBLE CAUSE OF LOW BG</th>
<th>SUGGESTED SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bolus too large</td>
<td>Check bolus amounts and times. Bolus only enough to lower your BG to normal level.</td>
</tr>
<tr>
<td>Low carbohydrate intake for bolus</td>
<td>Measure carbohydrates accurately. See dietitian for carb counting review. May need recalculation of I:C ratio; consult with healthcare team.</td>
</tr>
<tr>
<td>Improper timing of bolus</td>
<td>Match timing of bolus with intake of food. Check BG prior to meal bolus and adjust accordingly.</td>
</tr>
<tr>
<td>Alcohol consumption</td>
<td>May cause hypoglycemia (or may cause hyperglycemia). Eat food when drinking alcohol. Be cautious with bedtime bolus. Always check BG before going to bed. Check BG at 3 am. Consult healthcare team.</td>
</tr>
</tbody>
</table>

#### ACTIVITY

<table>
<thead>
<tr>
<th>POSSIBLE CAUSE OF LOW BG</th>
<th>SUGGESTED SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Did not Suspend pump or activate Temp Basal</td>
<td>Consult healthcare team for guidelines for use of Temp Basal rate during exercise.</td>
</tr>
<tr>
<td>Low carbohydrate intake prior to exercise</td>
<td>If not decreasing insulin prior to or during exercise, may need to eat foods containing carbohydrate prior to exercise.</td>
</tr>
<tr>
<td>Unplanned activity (shopping)</td>
<td>If BG is below 5.6 mmol/L, eat snack prior to exercise. Frequent BG testing before, during and after any activity.</td>
</tr>
<tr>
<td>Long or intensive exercise</td>
<td>Effects of exercise can be present for hours after activity has stopped. Consult with healthcare team for specific guidelines.</td>
</tr>
<tr>
<td>Insulin infusion site is too close to the Sensor insertion site when using the Dexcom G4 PLATINUM Sensor and Transmitter with your pump</td>
<td>Make sure the sites are at least 7.62 centimeters (3 inches) away from each other.</td>
</tr>
</tbody>
</table>

**NOTE:** Always check BG levels with a fingerstick test from your BG meter.
Preventing hypoglycemia:

- Check BG a minimum of four times a day, and more frequently with exercise.
- Keep accurate track of carbohydrates in the foods you eat.
- Consult your healthcare professional if you are experiencing frequent hypoglycemia or have a severe low that may require the help of another person.

  It may be necessary to adjust your basal rates, bolus doses, or review your BG Target goals, along with your daily regimen of food and exercise. If you have a low BG level (hypoglycemia), follow the routine established for you by your healthcare team.

- It is important to monitor your BG frequently, including periodic checks overnight.
- Investigate the cause of hypoglycemia.
- If you are using the Dexcom G4 PLATINUM Sensor and Transmitter with your pump, check your BG frequently if your CGM readings suggest possible hypoglycemia or hyperglycemia.

Hyperglycemia

Because your pump uses only rapid-acting insulin, you will not have a reserve of long-acting insulin in your body. This means that any interruption in the delivery of insulin by your pump can quickly result in a sharp rise of your BG levels.

Hyperglycemia (high BG) can occur within two to four hours after insulin delivery stops, and diabetic ketoacidosis (DKA) can develop within four to ten hours.

Several things can cause a high BG value. The most common problems and causes of high BG are listed in the following table, as are some suggested solutions.

Diabetic Ketoacidosis (DKA)

Hyperglycemia can lead to DKA. If your BG is above 13.9 mmol/L, check blood or urine ketones per your healthcare team. Remember, the first signs of DKA are often nausea and vomiting. Also remember that because you no longer have long-acting insulin in your system, DKA can develop quickly if you ignore and/or fail to troubleshoot potential problems.
Troubleshooting hyperglycemia:

### INFUSION SET

<table>
<thead>
<tr>
<th>POSSIBLE CAUSE OF HIGH BG</th>
<th>SUGGESTED SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Redness, irritation, inflammation, swelling, discharge or discomfort</td>
<td>Change infusion set tubing and site. Contact healthcare team.</td>
</tr>
<tr>
<td>Bump or nodule at infusion site</td>
<td>Change infusion set and rotate sites. Avoid this area for site selection.</td>
</tr>
<tr>
<td>Scar tissue</td>
<td>Avoid this area for site selection.</td>
</tr>
<tr>
<td>Catheter inserted in area of friction</td>
<td>Avoid waistline and friction areas.</td>
</tr>
<tr>
<td>Kink in tubing/catheter</td>
<td>Change infusion set tubing and site.</td>
</tr>
<tr>
<td>Infusion set not primed (air in tubing)</td>
<td>Disconnect tubing from body. Prime tubing completely.</td>
</tr>
<tr>
<td>Cannula not filled</td>
<td>Verify filling volume from manufacturer’s instructions, and program that amount when prompted on the FILL CANNULA screen as needed.</td>
</tr>
<tr>
<td>Tubing not tightly attached to cartridge</td>
<td>Tighten tubing attachment to cartridge.</td>
</tr>
</tbody>
</table>

### INSULIN

<table>
<thead>
<tr>
<th>POSSIBLE CAUSE OF HIGH BG</th>
<th>SUGGESTED SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cloudy, clumpy, crystallized, or expired insulin, or insulin exposed to extreme temperatures</td>
<td>Remove infusion set and cartridge and discard. Use new vial of insulin.</td>
</tr>
</tbody>
</table>

### FOOD INTAKE

<table>
<thead>
<tr>
<th>POSSIBLE CAUSE OF HIGH BG</th>
<th>SUGGESTED SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bolus insufficient or omitted</td>
<td>Review carbohydrate counting and I:C ratio settings.</td>
</tr>
<tr>
<td>High protein or fat intake</td>
<td>Consult dietitian; may need to count protein and fat.</td>
</tr>
<tr>
<td>Long meal, continuous snacking, slowly-absorbed food (high fiber), delayed digestion (gastroparesis)</td>
<td>Consult healthcare team. May need to use extended bolus or combination bolus option.</td>
</tr>
<tr>
<td>Improper bolus timing</td>
<td>Consult healthcare team.</td>
</tr>
</tbody>
</table>
Troubleshooting hyperglycemia:

<table>
<thead>
<tr>
<th>POSSIBLE CAUSE OF HIGH BG</th>
<th>SUGGESTED SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less activity</td>
<td>Use Temp Basal increase. Consult healthcare team.</td>
</tr>
<tr>
<td>Overuse of Temp Basal reduction</td>
<td>Record amount of time for changes. Frequent BG testing to document changes.</td>
</tr>
<tr>
<td>BG higher than 13.9 mmol/L with ketones before exercise</td>
<td>BG will increase with exercise when ketones are present. Do Not exercise when ketones are present. Consult healthcare team for exercise guidelines.</td>
</tr>
</tbody>
</table>

⚠️ CAUTION: Infusion set should be changed every 2 to 3 days or as recommended by your healthcare team. Always use clean technique! Notify healthcare team with signs or symptoms of infection at your insulin infusion site, or Sensor insertion site if you are using the Dexcom G4 PLATINUM Sensor and Transmitter with your pump!

### OTHER

<table>
<thead>
<tr>
<th>POSSIBLE CAUSE OF HIGH BG</th>
<th>SUGGESTED SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medications (steroids, terbutaline, acetaminophen, other hormone treatments)</td>
<td>Inform healthcare team of all medication changes or additions.</td>
</tr>
<tr>
<td>Infection, illness, virus</td>
<td>Refer to Sick Day Management Guidelines in Chapter 15 in Section I.</td>
</tr>
<tr>
<td>Pre-menstrual cycle</td>
<td>Consult healthcare team. May need to use Temp Basal or set additional Basal Program.</td>
</tr>
<tr>
<td>Pregnancy</td>
<td>Insulin requirements may increase in later trimesters. Consult healthcare team.</td>
</tr>
<tr>
<td>Weight changes</td>
<td>May need recalculation of basal or bolus doses. Consult healthcare team.</td>
</tr>
</tbody>
</table>

⚠️ WARNING: Consult your healthcare team before making any changes in your basal rates or bolus calculation settings. When in doubt, change it out! 1. Follow guidelines provided by your healthcare team. 2. Change infusion set. 3. Check for ketones. 4. Take rapid-acting insulin by injection.
### Problems with Infusion Sets, Sites and Cartridge

A number of problems can occur with infusion sets and sites, the most common of which are listed in the following table, along with some suggested solutions.

<table>
<thead>
<tr>
<th>POSSIBLE PROBLEMS</th>
<th>SUGGESTED SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air bubbles in tubing</td>
<td>Always fill your pump cartridge with room temperature insulin. Check Luer lock connection and tubing; change infusion set if needed. If using a disconnect set, remove the set from your infusion site and prime the bubbles out. Check that cartridge plunger is straight and the cartridge is not filled with more than 2.0 mL of insulin.</td>
</tr>
<tr>
<td>Kinked tubing</td>
<td>Straighten tubing if needed; replace infusion set if needed.</td>
</tr>
<tr>
<td>Dislodged needle or cannula</td>
<td>Change infusion set and site. Consider using different tape, dressing or infusion set. A cannula cannot be pushed back into skin successfully.</td>
</tr>
<tr>
<td>Blood in tubing (insulin looks pink or red)</td>
<td>Change infusion set and site. Check needle/cannula angle at new infusion site.</td>
</tr>
<tr>
<td>Insulin leak</td>
<td>Check Luer lock connection by wrapping a tissue around it to check for moisture; tighten or change cartridge and infusion set if needed. Check that cartridge is not filled with more than 2.0 mL of insulin. Do Not tighten cartridge cap while the infusion set is connected to your body.</td>
</tr>
<tr>
<td>Redness, tenderness, lumps, itching, warmth, discharge</td>
<td>Change infusion set and site; use clean technique. Treat old site for infection if necessary. Consult healthcare team.</td>
</tr>
<tr>
<td>Cartridge Reused</td>
<td>Do Not reuse cartridge. Cartridge is for single use only.</td>
</tr>
</tbody>
</table>
During periods of minor illness*, it may be more difficult to maintain good control of your diabetes. Examples of minor illness are: dental surgery, colds, nausea/vomiting, sore throat, mild infections, diarrhea, fever. However, you should call your healthcare team if:

• Illness persists without improvement for 24-48 hours.
• Temperature rises above 37.8° C (100° F).
• Vomiting or diarrhea continues longer than 4 hours.
• There are moderate to large amounts of ketones in urine.
• BG levels continue to run less than 3.3 mmol/L or above 13.9 mmol/L (above 7.2 mmol/L during pregnancy) after taking extra bolus doses as prearranged by your healthcare team.
• You show signs of diabetic ketoacidosis (DKA), dehydration or other serious problems such as: increased drowsiness, abdominal or chest pain, difficulty breathing, fruity odour to the breath, dry cracked lips, mouth or tongue.
• Any uncertainty as to what to do to take care of yourself.

Never omit your insulin! If you are ill and cannot eat, your need for insulin continues and may also increase.

• Continue your usual basal dose of insulin along with bolus insulin to cover food eaten or to correct high BG as prearranged with your healthcare team.
• You may need to temporarily increase or decrease your basal rate by using the Temp Basal feature as prearranged with your healthcare team.


Medication

Always let your healthcare team know ALL medications you are taking. Even medications you are taking for other reasons may impact your diabetes management, so it is important that you always let your healthcare team know all the medications you are taking.

⚠️ CONTRAINDICATION: If you are using the Dexcom G4 PLATINUM Sensor and Transmitter with your pump, taking acetaminophen (such as Tylenol®) containing medications while wearing the Sensor may falsely raise your Sensor glucose readings. The level of inaccuracy depends on the amount of acetaminophen (such as Tylenol®) active in your body.

Blood and Urine Testing

• Check your BG before your usual mealtime and every 2-4 hours if indicated.
• Test your blood or urine for ketones at least 4 times a day, or according to instructions from your healthcare team.
CHAPTER 15 - SICK DAY GUIDELINES

**Fluids and Diet**

*Always follow your healthcare team’s sick day guidelines.* Fluid intake is essential with any illness. Consume 240 ml (8.3 ounces) of fluid per hour. Every third hour consume 240 ml (8.3 ounces) of a sodium-rich liquid, such as bouillon. You need to consume 150-200 grams of carbohydrates daily. If ketones are moderate, contact your healthcare team. Develop a sick plan with your healthcare team prior to illness.
CHAPTER 16 - LIFESTYLE ISSUES

Exercise and Sports

There are many options for wearing your pump during exercise and sports activities. During “low-contact” sport activities, such as walking, biking or aerobics, your pump can be clipped to the waistband, or for added security, placed in a “sport case.” During “contact” sports such as baseball, basketball or hockey, your pump can be disconnected for up to one hour. Always follow your healthcare team’s individual guidelines when disconnecting your pump because you may need to compensate for missed basal insulin. Before and after you disconnect for any length of time, remember to check your BG levels.

Swimming

Your pump is tested for immersion in water to a depth of 3.6 meters (12 feet) for 24 hours under normal swimming conditions. You should not wear your pump while scuba diving or when using high diving boards. Your pump should not be taken into hot tubs, as the extreme temperature can adversely affect insulin quality.

If your pump has been dropped, examine it carefully for cracks or signs of damage. If the back label of your pump is not securely affixed or if you suspect your pump may have been damaged or otherwise had its waterproof integrity compromised, Do Not use in water. Contact Animas Canada Customer Care.

If you are using the Dexcom G4 PLATINUM Sensor and Transmitter with your pump, the Dexcom G4 PLATINUM Sensor and Transmitter are tested at IP28 (water resistant when submerged for up to 2.4 meters (8 feet) for a maximum of 24 hours).

NOTE: CGM readings may not be transmitted from your CGM to the pump while in water.

High Altitude Activities (Skiing, Hiking, etc.)

Your pump is tested at altitudes up to 3048 meters (10,000 feet) at standard operating temperatures. Extreme altitude, temperature or atmospheric conditions may affect pump performance. Refer to Chapter 17 in Section I for more information on pump operating conditions. Your Dexcom G4 PLATINUM Sensor and Transmitter components are tested at altitudes up to 3657 meters (11,998 feet). Refer to Chapter 13 in Section II for more information on CGM operating conditions. Check the instructions that come with your BG meter for more information on meter operating conditions.

Travelling

With a pump, travelling becomes less complicated and more enjoyable. However, travelling still requires preparation. Remember to order your pump supplies in advance and pack the following items:

• A letter from your healthcare team that explains the necessity of carrying insulin supplies and wearing a pump.

• A prescription for insulin, both rapid-acting for your pump and the type recommended by your healthcare team in case you need to take insulin by injection (Remember, your pump is designed and calibrated to use U100 concentration insulin only. Use of any insulin with lesser or greater concentration can result in serious injury or death.)
• Emergency supplies listed in the Before You Begin section.

• Accessible snacks.

• Bottled water to prevent dehydration while flying. (Remember to check your BG frequently to distinguish between high BG dehydration and normal flight dehydration.)

• The name of a referral healthcare team at your final destination in case of an emergency.

Also to consider when travelling:

• Pack your insulin carefully so that it is not exposed to extreme temperatures or temperature changes. (Refer to the instructions that came with your insulin for appropriate storage conditions.)

• Pack your pump supplies in carry-on luggage when travelling by air or train. Do Not pack your supplies in checked luggage. Contact your local airport administration or security office before travelling by air to obtain prescription/medical supply carry-on regulations.

• Your pump may set off the metal detector at airport security check-in. Additionally, airport security systems, such as X-rays, may damage the pump, so it may be necessary to disconnect and remove the pump prior to going through security. Contact your local airport administration or security office before travelling by air to obtain information about bringing your pump through airport security check-in.

• Delays through customs may occur if you have a pump malfunction and need a pump replacement. Contact Animas Customer Technical Support for information about obtaining a pump replacement.

• Adjust your pump’s clock when crossing time zones.

For more information on travelling with pumps, visit the Canadian Diabetes Association (CDA) website (www.diabetes.ca) or call your local airport for security guidelines that may apply.

**Intimacy**

Your pump need not interfere with intimacy. You can disconnect most infusion sets. Always follow your healthcare team’s guidelines when disconnecting from your pump. You may need to compensate for missed basal insulin. Also, before and after you disconnect for any length of time, remember to check your BG levels.
ANIMAS® VIBE® INSULIN PUMP WARRANTY

Animas® warrants that the Animas® Vibe® Insulin Pump will be free from defects in material and workmanship, for a period of four (4) years from the date of purchase by the original purchaser. This limited warranty extends only to the original retail purchaser. If an Animas® representative is not available in your area, contact Animas Customer Technical Support for warranty assistance.

If, during the warranty period, the pump should fail because of a defect in material or workmanship, it may be returned to Animas® and Animas® will repair or replace your pump with a new or recertified pump, at Animas®, option, without charge to the purchaser. In certain circumstances and at its sole discretion, Animas® may instead elect to refund all or a portion of the purchase price of the pump to the purchaser. Freight and transportation charges, where applicable, incurred in shipping a pump to be repaired or replaced under this limited warranty will be paid by Animas®. In the event a pump is replaced or repaired under this warranty, the warranty period shall not be extended. Once you have received your repaired or replaced pump, you must return your original pump to Animas®. In the event it is not returned, this warranty shall be void and the user will not be entitled to future pump replacement or repairs.

This limited warranty is valid only if the Animas® Vibe® Insulin Pump is used under normal use and conditions and in accordance with the manufacturer’s instructions as detailed in the Owner’s Booklet provided to you at time of purchase. This limited warranty does not extend to any damage resulting from the following:

• changes or modifications to the pump by the user or any other third person after the date of manufacture;
• service or repairs performed by any person or entity other than an Animas®-authorized service person;
• a force majeure or other event beyond the control of Animas®;
• accidents, negligence, misuse, or abuse of the pump by the user or any other third person, including, but not limited to, improper storage of or physical abuse such as dropping or otherwise damaging the Animas® Vibe® Insulin Pump; or
• normal “wear and tear,” including but not limited to cosmetic damage such as scratched display lenses and/or scratched paint.

This warranty will not apply:

• If damage results from use of non-Animas cartridges and/or infusion sets.

This limited warranty only covers the pump and does not cover batteries, infusion sets, cartridges, battery caps, or other accessories of the insulin pump.

Except as expressly set forth in this limited warranty, all other warranties are expressly disclaimed and excluded, including, without limitation, any warranties of merchantability or fitness for a particular purpose.

The remedies provided for in this warranty are the exclusive remedies available in the event of any breach hereof. Except for such remedies, Animas®, its suppliers, and its distributors shall not be liable for any losses, liabilities, claims, or damages of any kind or nature whatsoever, including, without limitation, any indirect, consequential, incidental, or special damages caused by or arising from a defect of the insulin pump.
**ANIMAS® VIBE® INSULIN PUMP ACCESSORY WARRANTY**

Limited Product Warranty for Insulin Pump Accessories (Cases, Clips, Skins, etc.)

Your Animas® Vibe® Insulin Pump accessory is warranted against defects in materials and workmanship for a period of THREE (3) MONTHS from the date of original retail purchase. If a defect exists, Animas Corporation, at its option and to the extent permitted by law will (1) repair the product at no charge using new or refurbished parts, (2) exchange the product with a functionally equivalent product that is new or refurbished, or (3) refund the original purchase price. This warranty is available only to the original retail purchaser and excludes damage resulting from abuse, accident, modifications or other causes that are not defects in materials and workmanship. TO THE EXTENT PERMITTED BY APPLICABLE LAW ANIMAS® IS NOT LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR SERVICE OF THE PRODUCT. THE WARRANTY AND REMEDIES DESCRIBED ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, REMEDIES, AND CONDITIONS, WHETHER ORAL, WRITTEN, EXPRESS, STATUTORY OR IMPLIED. TO THE EXTENT PERMITTED BY APPLICABLE LAW ANIMAS® DISCLAIMS ALL IMPLIED AND STATUTORY WARRANTIES, INCLUDING, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IF IMPLIED WARRANTIES CANNOT BE DISCLAIMED, THEN SUCH WARRANTIES ARE LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY. Any recovery is limited to the original purchase price. No other person is authorized to modify this limited warranty.

**ANIMAS® VIBE® INSULIN PUMP MAINTENANCE PARTS WARRANTY**

Limited Product Warranty for Insulin Pump Maintenance Parts (Battery Caps, Cartridge Caps, etc.)

Your Animas® Vibe® Insulin Pump maintenance part is warranted against defects in materials and workmanship for a period of SIX (6) MONTHS from the date of original retail purchase. If a defect exists, Animas Corporation, at its option and to the extent permitted by law will (1) repair the product at no charge using new or refurbished parts, (2) exchange the product with a functionally equivalent product that is new or refurbished, or (3) refund the original purchase price. This warranty is available only to the original retail purchaser and excludes damage resulting from abuse, accident, modifications or other causes that are not defects in materials and workmanship. TO THE EXTENT PERMITTED BY APPLICABLE LAW ANIMAS® IS NOT LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR SERVICE OF THE PRODUCT. THE WARRANTY AND REMEDIES DESCRIBED ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, REMEDIES, AND CONDITIONS, WHETHER ORAL, WRITTEN, EXPRESS, STATUTORY OR IMPLIED. TO THE EXTENT PERMITTED BY APPLICABLE LAW ANIMAS® DISCLAIMS ALL IMPLIED AND STATUTORY WARRANTIES, INCLUDING, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IF IMPLIED WARRANTIES CANNOT BE DISCLAIMED, THEN SUCH WARRANTIES ARE LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY. Any recovery is limited to the original purchase price. No other person is authorized to modify this limited warranty. Some provinces do not allow limitations on how long an implied warranty lasts, or exclusions of incidental or consequential damages, so the above limitations may not apply to you. This warranty gives you specific legal rights, and you may have other rights, which vary from province to province.
Technical Specifications – Animas® Vibe® Insulin Pump

NOTE: When applicable, testing used 23” Comfort™ infusion set and temperature of 23° C ± 1° C (73° F ± 2° F)

Dimensions: 8.26 x 5.08 x 2.18 centimeters (3.25 x 2.00 x 0.86 inches)
Weight: Approximately 105 grams (3.70 ounces)
Number of Basal Segments: 12 per Program
Number of Basal Programs: 4
Basal Delivery Frequency (Basal rates of 0.2 U/hr or higher): every 3 minutes
Temp Basal Range: -90% to +200%, in 10% increments, OFF
Temp Basal Duration: 0.0 hr to 24 hrs in 0.5 hr increments
Extended Bolus Duration: 0.1 hr to 12 hrs, with 0.5 hr increments for 0.5 hr to 12 hrs
Battery Type: Energizer® Ultimate Lithium AA (1.5V) (recommended) or Energizer® E91 Alkaline AA (1.5V) (optional)
Number of Batteries: 1
Battery Life, Typical use: approximately 3 to 4 weeks for an Energizer® Ultimate Lithium battery (1.5V)
Maximum volume infused under single fault condition: Max 2.0U
Cartridge Capacity up to: 2.0 mL or 200 units
Storage Conditions: -20° C (-4° F) to +60° C (+140° F)
10% to 100% relative humidity, including condensation
500 Hpa to 1060 Hpa
Batteries must be removed during storage periods exceeding 2 weeks.
Operating Conditions: +5° C (+40° F) to +40° C (+104° F)
Outside these temperatures, the flow accuracy and time to occlusion could be compromised.
700 Hpa to 1060 Hpa
20% to 90% relative humidity, including condensation
up to 3048 meters (10,000 feet)
Critical Audible Alarms: 50 dB(A) at 1m min., per IEC 60601-2-24.
Pump Disposal: Contact Animas Canada Customer Care for pump disposal information.
Audio Bolus Range: 0.1 – 2.0U in 0.1U step
0.5 – 10.0U in 0.5U step
1.0 – 20.0U in 1.0U step
5.0 – 35.0U in 5.0U step
CHAPTER 17 - ANIMAS® VIBE® INSULIN PUMP WARRANTY AND OTHER TECHNICAL INFORMATION

Performance Characteristics

Flow Rate Accuracy

<table>
<thead>
<tr>
<th>Delivery Mode</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bolus</td>
<td>+/- 5%</td>
</tr>
<tr>
<td>Basal</td>
<td>+/- 5%</td>
</tr>
</tbody>
</table>

Maximum Time to Occlusion Alarm*

<table>
<thead>
<tr>
<th>Basal/bolus delivery</th>
<th>Low occlusion sensitivity setting</th>
<th>High occlusion sensitivity setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.025 U/Hr basal</td>
<td>120 hours</td>
<td>72 hours</td>
</tr>
<tr>
<td>1.0 U/Hr basal</td>
<td>3 hours</td>
<td>1.5 hours</td>
</tr>
<tr>
<td>3U or more bolus</td>
<td>30 seconds</td>
<td>8 seconds</td>
</tr>
</tbody>
</table>

*Maximum Time to Occlusion will vary based upon user-selected delivery rates. Certain factors, such as the presence of air in the infusion set or the cartridge and/or ambient temperature changes, can delay an occlusion alarm.

Occlusion Pressure Threshold: 15 psi typical, 35 psi max.

Bolus Volume after Occlusion release:

- 1.0 U max with occlusion sensitivity set to high
- 3.0 U max with occlusion sensitivity set to low

Delivery Rates:

- Bolus, under 1U: 1.1 to 2.2 U/sec
- Bolus, 1U or more (normal delivery speed): 0.5 to 0.9 U/sec
- Bolus, 1U or more (slow delivery speed): 0.2 to 0.4 U/sec
- Prime: 1.7 to 3.3 U/sec

Insulin Types Used: Rapid-acting U100 insulin

Basal Rate Range: 0.025-25 U/Hr in 0.025 U/Hr steps

Bolus Range: 0.05-35 U in 0.05 U steps

Protection from equipment error: More than 1.5 million redundant safety cross-checks per day for both hardware and software functionality.

RF specifications:

- Range between pump and Sensor/Transmitter: 3.6 meters (12 feet)
- Frequency: 2.4 GHz
- Pump Mode: Receive only

Continuous Operation, Internally Powered Device

Type BF Medical Equipment (Patient isolated, not defibrillator protected)

Watertight Equipment, IPX8 (protected against the effects of submersion, tested at 3.6 meters (12 feet) for 24 hours).

Infrared communication port
Section II

Dexcom G4 PLATINUM Sensor and Transmitter
Section II of this Owner's Booklet covers instructions for using the Dexcom G4 PLATINUM Sensor and Transmitter in conjunction with your Animas® Vibe® Insulin Pump. The optional Dexcom G4 PLATINUM Sensor and Transmitter can be added to your Animas® Vibe® Insulin Pump to provide continuous glucose monitoring (CGM) reporting on your pump. The Dexcom G4 PLATINUM Sensor and Transmitter are packaged and available separately.

In addition to providing continuous insulin delivery, your Animas® Vibe® System is designed to perform continuous glucose monitoring when used in conjunction with the Dexcom G4 PLATINUM Sensor and Transmitter. Once you have completed training on your Animas® Vibe® Insulin Pump and the Dexcom G4 PLATINUM Sensor and Transmitter, and have activated the RF communication link between them, your Animas® Vibe® System can provide an integrated approach to managing your glucose levels.

The Dexcom G4 PLATINUM Sensor is a disposable unit that you insert under the skin of your abdomen (belly) to continuously monitor your glucose levels for up to 7 days. The Transmitter is a reusable device that snaps into your Sensor Pod.

Together, the Sensor and Transmitter wirelessly send CGM readings every 5 minutes to your Animas® Vibe® Insulin Pump where the data can be viewed and analyzed on the pump’s colour display. You can also set your pump to alert you when your CGM readings are too high or too low, or are rising or falling too quickly. Certain historical CGM data records are also available for review on your pump (see Chapter 7 in Section II for more information). You can use compatible diabetes management software to track, review and analyze CGM data (from your pump) on your computer.

You will need to calibrate the Dexcom G4 PLATINUM Sensor and Transmitter on a regular basis with fingerstick values from a BG meter. Any commercially-available BG meter can be used for obtaining fingerstick calibration values.
Symbols on Dexcom G4 PLATINUM Sensor and Transmitter package labels

The following symbols may be found on the Dexcom G4 PLATINUM Sensor and Transmitter package labels. These symbols tell you about the proper and safe use of the CGM. This table shows what each symbol means.

- **“Use By” Date**
- **Caution**
- **Do Not Reuse**
- **Serial Number**
- **Sterile by Radiation**
- **Lot Number**
- **Part Number, Catalog Number**
- **Type BF Applied Part**
- **European Union WEEE Directive 2006-66-EC**

Contact Animas Canada Customer Care regarding recycling of the Dexcom G4 PLATINUM Transmitter.

About Radio Frequency (RF) Communication

Your pump and Dexcom G4 PLATINUM Sensor and Transmitter have built-in RF capability. RF is a type of wireless communication. Cell phones use RF technology, as do many other devices. RF is how your pump and CGM communicate and share CGM data.

The RF feature on your pump will be deactivated when you first receive it. In order to begin using your pump and CGM together as a system, you must enter the ID of your Transmitter into your pump to activate RF communication.

RF communication between your pump and CGM will work up to a distance of about 3.6 meters (12 feet) and will transmit through clothing. Direct line of sight is not required for RF communication. As long as you have a good RF signal and are within range, you can use your pump to display CGM data. Exposing your pump and CGM to water, lying in a waterbed, and certain objects in between the two devices may interfere with RF communication. Nearby metallic objects and electrical blankets may also interfere with RF communication.

When conditions or distance cause RF communication to be lost or interrupted, data transfer between the two devices will stop temporarily. This means that you will not be able to use your pump to display most recent CGM data or future CGM readings until the RF communication is restored. Refer to Chapter 12 in Section II for more information on conditions that may cause RF communication problems.
CHAPTER 2 - CGM SETTINGS

Setting your Transmitter ID

Your CGM and pump communicate using RF communication. RF communication will be activated when you enter the unique Transmitter ID into the pump and start your CGM session. This will ensure that communication takes place only between this pump and this Transmitter. Any time you replace the Transmitter, you will need to enter the new Transmitter ID into the pump. Similarly, if your pump is replaced, you will need to enter the current Transmitter ID into the new pump.

NOTE:
• CGM menu options are not available while pump is suspended.
• Do Not remove the Transmitter from the tray until you are ready to use it. While the Transmitter is in the tray, it is in sleep mode to conserve battery power. When the Transmitter is removed from the tray for the first time, it permanently wakes up.

1. For the initial setup, remove the Transmitter from the tray and wait 10 minutes for the Transmitter to turn on and be ready for use.

2. From the MAIN MENU screen, scroll to “CGM” and press .


4. Scroll to “Transmitter” and press . The Transmitter screen will be displayed and “CGM Setup” will be highlighted.
5. Scroll to the “S/N#” field. The last digit will be highlighted. Scroll to the first digit and then press so that the first digit is flashing.

NOTE:
• The Transmitter ID appears on the underside of the Transmitter.
• The Transmitter ID should begin with 6 or 7.

6. Use the buttons to enter the first number/letter of the Transmitter ID. Press to move to the next digit and press again so that the second digit is flashing.

7. Repeat these steps until you have correctly entered all 5 numbers/letters from your Transmitter ID. Press when the last digit is highlighted.

8. “CGM Setup” will be highlighted. If you need to edit the Transmitter ID you just entered, scroll to the “S/N#” field and re-enter the correct Transmitter ID. With “CGM Setup” highlighted, press to return to the CGM Setup screen.

NOTE:
• If this is the first time you are entering a Transmitter ID, all zeros (00000) will appear in the “S/N#” field.
• You cannot enter a Transmitter ID when a CGM session is currently active.
• Entering a valid Transmitter ID but not inserting a Transmitter/Sensor may trigger certain CGM warnings, alarms and alerts to display/sound on your pump.
CHAPTER 2 - CGM SETTINGS

Setting CGM Alerts on your Pump

You can set your pump to display and sound (beep/vibrate) an alert when:

- Your CGM readings are outside your target range.
- Your CGM readings may be rising or falling too quickly.
- Your Transmitter is not within RF range of your pump.
- There are other CGM problems that require your attention.

On a few CGM settings, you can also select a “snooze time.” The snooze time tells your pump to display/sound the alert again at a set amount of time after first confirming the alert, if the condition causing the original alert has not been resolved. Consult with your healthcare team on the settings that are most appropriate for you.

CGM settings affect how and when your pump displays/sounds an alert, and how information is displayed on the CGM Data and CGM Trend screens.

You can set pump sounds for:

- High Alert
- Low Alert
- Rise Rate
- Fall Rate
- (Transmitter) Out of Range
- Other (alerts)

Pump sounds may be set to:

- Vibrate (Vib) only
- Low Volume (L) beep and vibrate
- Medium Volume (M) beep and vibrate
- High Volume (H) beep and vibrate (default setting)

NOTE: Your pump does not have the same “progressive” warnings and alarms safety system for CGM functions as it does for insulin delivery functions.

1. From the MAIN MENU screen, scroll to “CGM” and press  

2. Scroll to “Setup” and press  

   **MAIN MENU**
   
   Bolus
   CGM
   Suspend/Resume
   History
   Basal
   Setup
   Prime/Rewind
   Status
   Home

   **CGM Menu**
   
   BG Cal.
   Trend Graph
   Start/Stop
   History
   Setup

   Main Menu

   111
3. Scroll to “Sounds” on the CGM Setup screen and press 

4. The “High Alert” field will be highlighted on the CGM Warning Sounds screen. Press so that the highlight is flashing. Use the and buttons to select the desired sound for this alert. Press .

5. Repeat step 4 for the remaining alerts (Low Alert, Rise Rate, Fall Rate, Out of Range, Other).

6. When you are finished, scroll to “CGM Setup” and press to return to the CGM Setup screen.

Setting CGM Alert Values/Limits

You can enable/disable alerts and set CGM values/limits for:

- High Alert
- Low Alert
- Rise Rate
- Fall Rate

You can also set a “snooze time” for the High and Low Alert limits and the (Transmitter) Out of Range alert. See the pages that follow for more information on CGM Alerts.

NOTE:
- If you disable an Alert, it will not display/sound on the pump.
- You cannot disable the CGM Warning that displays/sounds when your most recent CGM reading is at or below 3.1 mmol/L.
High and Low Glucose Alerts

The High and Low (Glucose) Alerts will display/sound on your pump if the last CGM reading is at the limit or falls above or below these limits.

1. From the CGM Setup screen, scroll to “High Alert”. Press .

2. With the “Warn above” field highlighted on the High Alert screen, press so that the highlight is flashing. Use the buttons to select the desired level for the High Alert and press . You may set the High Alert from 6.7 mmol/L to 22.2 mmol/L (default is 11.1 mmol/L) in 1.1 mmol/L increments.

3. The “Snooze Time” field will be highlighted. Use the buttons to select the desired snooze time for the High Alert and press . The snooze time lets you set a time for the High Alert to display/sound again on your pump after you first confirm the alert, if the condition causing the original alert has not been resolved. You may set a snooze time from 0 to 300 minutes (default is 0 minutes – no re-alert) in 30 minute increments.

4. Scroll to the “Enable” field and press to enter edit mode. The Enable setting gives you the option to display/sound the High Alert on your pump whenever the last CGM reading falls at or above this level. When you select “No”, this feature is disabled so that High Alerts will not display/sound on your pump. The default setting is “Yes” – enable.

5. When you are finished, scroll to “CGM Setup” and press to return to the CGM Setup screen.
CHAPTER 2 - CGM SETTINGS

Rise and Fall Rate Alerts

The Rise and Fall Rate Alerts will display/sound on your pump if your CGM readings begin to rise or fall at or faster than these limits.

6. Scroll to “Low Alert” on the CGM Setup screen and repeat these steps for the Low (Glucose) Alert. You may set the Low Alert from 3.3 mmol/L to 5.5 mmol/L (default is 4.4 mmol/L) in 0.5 mmol/L increments, the snooze time from 0 to 300 minutes (default is 0 minutes – no re-alert) in 30 minute increments, and either enable or disable (default is “Yes” – enable) the Low Alert. When you are finished, scroll to “CGM Setup” and press \( \text{OK} \) to return to the CGM Setup screen.

NOTE: The High and Low (Glucose) Alerts that are set here will appear as horizontal lines on the graphs included in the CGM Trend screens. These levels will also affect the colour coding of the Trend Arrows that appear in the CGM Data and CGM Trend screens. If you choose to disable these alerts, the horizontal lines will not appear on the Trend graph and the alerts will not display/sound on the pump. See Chapter 6 in Section II for more information on the CGM Data and CGM Trend screens.

Rise and Fall Rate Alerts

The Rise and Fall Rate Alerts will display/sound on your pump if your CGM readings begin to rise or fall at or faster than these limits.

6. Scroll to “Low Alert” on the CGM Setup screen and repeat these steps for the Low (Glucose) Alert. You may set the Low Alert from 3.3 mmol/L to 5.5 mmol/L (default is 4.4 mmol/L) in 0.5 mmol/L increments, the snooze time from 0 to 300 minutes (default is 0 minutes – no re-alert) in 30 minute increments, and either enable or disable (default is “Yes” – enable) the Low Alert. When you are finished, scroll to “CGM Setup” and press \( \text{OK} \) to return to the CGM Setup screen.

NOTE: The High and Low (Glucose) Alerts that are set here will appear as horizontal lines on the graphs included in the CGM Trend screens. These levels will also affect the colour coding of the Trend Arrows that appear in the CGM Data and CGM Trend screens. If you choose to disable these alerts, the horizontal lines will not appear on the Trend graph and the alerts will not display/sound on the pump. See Chapter 6 in Section II for more information on the CGM Data and CGM Trend screens.
CHAPTER 2 - CGM SETTINGS

(Transmitter) Out Of Range Alert

The (Transmitter) Out of Range Alert will display/sound on your pump if your Transmitter is not within RF range of your pump (3.6 meters (12 feet)).

1. From the CGM Setup screen, scroll to “Out of Range”. Press 3.

2. With the “Snooze Time” field highlighted on the Out of Range screen, press 3 to activate the edit mode (flashing highlight). Use the A/V buttons to select the desired snooze time for the alert and press 3. The snooze time lets you set a time for the Out of Range alert to display/sound again on your pump after you first confirm the alert, if the condition causing the original alert has not been resolved. You may set a snooze time from 21 to 201 minutes (default value is 30 minutes) in 3 minute increments.

3. When you are finished, scroll to “CGM Setup” and press 3 to return to the CGM Setup screen.

NOTE: You can enable or disable (default is “Yes” – enable) the Out Of Range Alert. If this feature is disabled, the Out Of Range Alert will not display/sound on the pump.
To use the Dexcom G4 PLATINUM Sensor and Transmitter in conjunction with your Animas® Vibe® Insulin Pump, you will need a Dexcom G4 PLATINUM Sensor and Transmitter. You will also need a BG meter and test strips for calibration and to make all treatment decisions. Once inserted and calibrated, the Sensor will continuously measure and display your glucose readings for up to 7 days (166 hours after the 2-hour startup period). This chapter will show you how to insert the Sensor and attach the Transmitter.

Sensor Overview

The Sensor is a device that continuously measures your glucose levels. You will use a BG meter to calibrate your glucose readings measured by the Sensor. The Transmitter collects the Sensor readings and sends them to the pump using wireless, radio frequency (RF) technology. This happens every 5 minutes for up to 7 days.

Transmitter Overview

The Transmitter wirelessly sends your glucose information from the Sensor to the pump. The Sensor and Transmitter are water resistant when properly connected. Do Not throw away your Transmitter. The same Transmitter is used when you change Sensors.

The transmission range from the Transmitter to the pump is up to 3.6 meters (12 feet) without obstruction. Wireless communication does not work well through water so the range may be much less if you are in a pool, bath tub, waterbed, etc.

The Transmitter battery will last about 6 months. Once the Transmitter Low Battery Warning appears on your pump display, replace the Transmitter as soon as possible. Refer to Chapter 10 in Section II for information on the Transmitter Low Battery Warning.

Before You Start

⚠️ CAUTION: Sensors should be stored at temperatures between 2° C – 25° C (36° F – 77° F) for the length of the shelf life. You may store your Sensors in the refrigerator if it is within this temperature range. Sensors should not be stored in a freezer.

- Be sure your pump has sufficient battery life to avoid running out of battery power during use.
- Check that the date and time on your pump are correct.
- Make sure the correct Transmitter ID has been entered into your pump (see Chapter 2 in Section II).
- Check the Use By Date printed on the Sensor package label. The Use By Date format is YYYY-MM-DD. Sensors must be inserted on or before the end of the calendar day printed on the Sensor package label.
- Make sure you are using your BG meter per the manufacturer’s instructions to ensure you are getting accurate BG values for calibration.
- Clean the bottom of the Transmitter with a wrung-out, slightly water-dampened cloth or isopropyl wipe. Place the Transmitter on a clean, dry cloth and air dry for 2-3 minutes.
- Make sure the date and time on your pump matches the date and time on your BG meter.

⚠️ WARNING: DO NOT allow small children (either pump users or non-users) to come in contact with or ingest small pump, sensor, or transmitter component pieces. Small component pieces could pose a choking hazard. If ingested or swallowed these small component pieces may cause internal injury or infection. For example, the batteries contain chemicals that may be especially harmful to children.
Inserting a new Sensor and Transmitter

Review the Sensor Applicator

Review the Sensor Applicator picture below before using a new Sensor.

1. Remove the Sensor from its packaging

⚠️ CAUTION: The Sensor is sterile in its unopened, undamaged package. Do Not use any Sensor if its sterile package has been previously damaged or opened.

- Wash your hands thoroughly and dry them.
- Carefully remove the Sensor from its packaging. Look closely at the Sensor to make sure it is not damaged.
- The Applicator is a single use, disposable unit. The Safety Lock prevents you from accidentally releasing the Introducer Needle before you are ready.
2. Choose an insertion site

⚠ CAUTION:
- Change the site where you place your Sensor with each insertion to allow your skin to heal.
- Avoid areas that are likely to be bumped, pock’d or compressed, or areas of the skin with scarring, tattoos, or irritation, as these are not ideal sites to measure glucose.
- Avoid injecting insulin or placing an insulin pump infusion set within 7.62 centimeters (3 inches) of the Sensor in case the insulin affects the Sensor glucose readings.

Choose a site on your belly to place the Sensor.

- **Adults age 18 or older:** insert in the belly (front of body, option A).
- **Children and adolescents between 2 and 17 years old:** insert in the belly (front of body, option A) or the upper buttocks (back of body, option B).

No other Sensor insertion sites have been tested.

The ideal Sensor insertion site for you may be based on your body type, activity, sensitivities, and other personal traits. You can choose a site above or below your belt line. The best areas to insert your Sensor are usually flat and “pinchable.” Avoid Sensor insertion where something may rub or press against the Sensor. For example, avoid Sensor insertion along the waist band and seat belt strap, in or near the belly button, on the upper buttocks near the waist/belt or too low on the buttocks where you sit.

- Choose an area that is at least 7.62 centimeters (3 inches) from where you plan to inject insulin or from where your pump infusion site is located.
- Avoid using the same spot repeatedly for Sensor insertion. Rotate your Sensor placement sites, and **Do Not** use the same site for two Sensor sessions in a row.
- You may need to shave the area where you plan to put the Sensor so that the adhesive patch sticks securely.
- Make sure there are no traces of lotions, perfumes or medications on the area.

⚠ CAUTION: Before inserting the Sensor, always clean the skin at the Sensor insertion location with a topical antimicrobial solution, such as isopropyl alcohol. This may help prevent infection. **Do Not** apply the Sensor until the cleaned area is dry so that it will stick better.
CHAPTER 3 - INSERTING THE SENSOR AND TRANSMITTER

3. Place the Sensor

a. Clean the area first with an alcohol wipe. Make sure the area is clean and completely dry before you insert the Sensor.

b. Using the white tabs on the adhesive backing, remove the adhesive backing from the Sensor Pod one half at a time. Hold the Sensor by the Applicator Barrel and try not to touch the sticky adhesive patch.

c. Place the Sensor flat on your selected area, to the left or right of your belly button. Make sure the Sensor is placed in the same direction shown in the picture below. You should not place the Sensor pointing in the up or down direction.

\[\text{Remove the adhesive backing} \quad \text{Adhere the Sensor on the skin}\]

\[\text{d. Press your finger firmly around the adhesive patch to make sure it is smooth.}\]

\[\text{e. Hold on to the Applicator. Then pull the Safety Lock straight out away from the Applicator, in the direction the arrows show in the picture below.}\]

\[\text{Remove the Safety Lock}\]

*NOTE:* The Safety Lock can be used later for Transmitter removal. Keep this piece to help you remove the Transmitter at the end of a CGM session. When your CGM session is over, follow the steps in Chapter 9 in Section II to remove the Transmitter.
CHAPTER 3 - INSERTING THE SENSOR AND TRANSMITTER

4. Insert the Sensor

Once you have placed the Applicator on your belly and removed the Safety Lock, you are ready to insert the Sensor. To insert your Sensor, follow the next 4 steps below (a – d).

a. Using one hand, you may want to pinch up the skin, at the edge of the white adhesive. Do Not pinch up in the middle section of the plastic base. With your other hand, place two fingers above the Collar on the Applicator Barrel so they are resting above the Collar.

b. Place your thumb on the white Plunger. Push the Plunger down completely, making sure it is flush against the Applicator Barrel. You should hear 2 “clicks”. This action inserts the Introducer Needle and Sensor under your skin.

c. To remove the Sensor Introducer Needle, keep pinching up on your skin with one hand. With your other hand, place two fingers under the Collar. Keep your thumb lightly on top of the white Plunger and pull the Collar back towards your thumb until you hear 2 “clicks” or cannot pull back any more. This step leaves the Sensor under your skin and removes the Sensor Introducer Needle from your body.

d. To remove the Applicator Barrel, squeeze the ribbed Release Tabs on the sides of the Sensor Pod (when you squeeze the front part of the Release Tabs, the back part of the tabs will widen, allowing you to pull off the Applicator Barrel). After this step, only the Sensor Pod will be left on your body.

- Make sure the Transmitter Latch is down (against your body) to remove the Applicator Barrel.
- Be sure to squeeze the center of the ribbed part of the Release Tabs.
- While squeezing the Release Tabs, rock the Applicator Barrel forward and out away from the body.
5. Attach the Transmitter

Once you have inserted your Sensor, you will need to snap the Transmitter into the Sensor Pod. Follow the steps below to attach your Transmitter.

a. Clean and dry the bottom of the Transmitter with a damp cloth or an alcohol wipe before every use. Be careful not to touch the metal circles on the bottom of the Transmitter with your skin. For disinfection instructions, refer to Chapter 11 in Section II. Be careful not to scratch the bottom of the Transmitter as scratches may compromise the waterproof seal.

b. Place the Transmitter in the Sensor Pod with the flat side facing down.

   • Place one finger on the Transmitter to keep it in place while securing the Transmitter into the Sensor Pod.
   • Pull the Transmitter Latch over the Transmitter to snap the Transmitter into place. The Transmitter should lie flat in the Sensor Pod. You should hear 2 “clicks.” If you do not hear 2 “clicks”, the Transmitter might not be fully snapped in. You can release your pinch on the adhesive edge at this time.
   • Make sure the Transmitter is secure by sliding your first and second fingers under the Sensor Pod wings, and press down on the Transmitter with your thumb.

 ⚠️ WARNING: Sensors may fracture on rare occasions. If a Sensor breaks and no portion of it is visible above the skin, Do Not attempt to remove it. Seek professional medical help if you have symptoms of infection or inflammation – redness, swelling or pain – at the insertion site. If you experience a broken Sensor, please report this to Animas Customer Technical Support.

For patients undergoing an MRI with a retained wire broken off from a Sensor, in-vitro MRI testing did not detect any safety hazards. There was no significant migration or heating of the wire and imaging artifacts were limited to areas around the wire.

The pump and any type of metallic infusion set must be removed prior to an MRI, and left outside the room during the procedure.

If you have any problems with insertion, save the Sensor and Applicator and contact Animas Customer Technical Support.
CHAPTER 3 - INSERTING THE SENSOR AND TRANSMITTER

d. Hold the Transmitter in place with one hand. Using your other hand, remove the Transmitter Latch by holding the edge of the Latch and quickly twisting off the Latch away from your body.

NOTE:
• Make sure you hear 2 “clicks” when you snap the Transmitter in place (see Step c). Failing to seat the Transmitter completely may lead to a poor Sensor connection and allow fluids to get under the Transmitter. This can lead to inaccurate Sensor glucose readings.
• Do Not remove the Transmitter from the Sensor Pod while the Pod is attached to your skin.

△ CONTRAINDICATION: The Sensor and Transmitter must be removed prior to Magnetic Resonance Imaging (MRI), CT scan, or diathermy treatment. The Sensor and Transmitter have not been tested during MRI or CT scans or with diathermy treatment, and it is unknown if there are safety or performance issues.

The pump and any type of metallic infusion set must be removed prior to an MRI, and left outside the room during the procedure.

Taping the Sensor Pod

The Sensor Pod should stay securely attached to your skin using its own adhesive. But, if the patch is peeling up, you can use medical tape (such as Bioclusive™ transparent dressing, Blenderm™, Tegaderm™, IV 3000™) for extra support. If you use tape, only tape over the white adhesive patch on all sides for even support. Do Not tape over the Transmitter or any of the plastic parts of the Sensor Pod. Do Not tape under the Sensor Pod or leave any substance on the skin where you insert the Sensor.

The CGM and Water

The Sensor is water resistant when showering, bathing or swimming if the Transmitter is fully snapped in. The Sensor has been tested to be water resistant when submerged up to 2.44 meters (8.0 feet) for a maximum of 24 hours.

△ CAUTION: The transmission range from the Transmitter to the pump is up to 3.6 meters (12 feet) without obstruction. Wireless communication does not work well through water so the range is much less if you are in a pool, bathtub, waterbed, etc.
2-Hour CGM Startup Period

Once your Sensor is inserted, and your Transmitter ID is entered into your pump, you are ready to begin a CGM session. Each CGM session will last up to 7 days (166 hours after the 2-hour startup period), after which you will need to replace the Sensor and start a new CGM session. During the 2-hour startup period, your CGM will make adjustments so that it adapts to your body's biological environment.

NOTE: Make sure you have removed the Transmitter from its tray and have waited 10 minutes for it to turn on and be ready for use.

1. From the MAIN MENU screen, scroll to “CGM” and press.

2. Scroll to “Start/Stop” and press.

   NOTE: If a session is currently active and “Start/Stop” is selected, you will go to the CGM Stop Session screen.

3. Scroll to “START” and press to begin the 2-hour startup period. Wait at least 8 seconds for the CGM session to start before pressing any other buttons on the pump. If you need to cancel the start of the CGM session, scroll to “CANCEL” and press to return to the CGM Menu screen.

   NOTE: If you entered an invalid Transmitter ID, you will be prompted to re-enter the correct Transmitter ID.
When you select “Start”, a CGM Warning screen will appear to remind you not to rely solely on CGM readings for making therapeutic adjustments. **Always use Fingerstick BG for Treatment Decisions and CGM Calibration.** This Warning will appear every time you begin a new 2-hour CGM startup period. Press [Confirm] to confirm the Warning and continue with the 2-hour startup session. After pressing [Confirm], you will go to the CGM Trend screen (see *Chapter 6 in Section II*).

Once you start a CGM session, you can use the CGM Data and Trend screens on your pump to view the progress of the 2-hour startup period.

Keep your pump within 3.6 meters (12 feet) of your Sensor/Transmitter during the 2-hour startup period for best communication. You can check that your devices are communicating by pressing the contrast button/CGM shortcut on your pump while the pump is in sleep mode to display one of the CGM Information screens (see *Chapter 6 in Section II*). If a CGM Trend screen is displayed, a **shaded box** will appear on the top left of the screen to indicate the progress of the CGM startup period. The CGM session will start with the box completely shaded, but the shaded area will gradually diminish over the 2-hour startup period. The **shaded box** also appears on the CGM data screen.

Similarly, the graph area on CGM Trend screens will be shaded dark grey to start, but the grey area will gradually diminish over the 2-hour startup period. See *Chapter 6 in Section II* for more information on the CGM Trend screen.

If the **ANT** symbol appears on the CGM Data or Trend screen and/or if your pump displays the Transmitter Out of Range Warning screen, then your devices are not communicating. Press [Confirm] to confirm the warning.

To troubleshoot CGM communication:

- Check that your pump and the Sensor/Transmitter are within 3.6 meters (12 feet) of each other. If not, move them closer. Wait about 5-10 minutes to see if the **shaded box** appears on the CGM Data or Trend screen (**ANT** will disappear).
- The pump and Sensor/Transmitter may lose communication when they are near other metallic objects, or while you are lying on a waterbed or using an electric blanket.
- If the Warning screen appears again, verify that you have entered the correct Transmitter ID into your pump.
- Refer to *Chapter 12 in Section II* for troubleshooting problems with CGM communication.
- If the correct ID has been entered, and the Warning screen continues to re-appear, contact Animas Customer Technical Support.

**NOTE:** After starting a new Sensor session, you will not receive Sensor glucose readings until your 2-hour startup period has ended, and you have completed your initial calibrations (see following page).
In order for your CGM to work properly, you will be prompted to calibrate your CGM with fingerstick BG test results at various times during a CGM session. More specifically, you will need to be prepared to take a fingerstick test(s) with your commercially-available BG meter, and enter the BG results into your pump within 5 minutes of being prompted. The purpose of calibration is to correlate Sensor readings to the reference BG meter to maintain Sensor performance.

These are the required times for calibration:

- **Startup Calibration** – at the end of the 2-hour CGM startup period.
- **Calibration Update** – at least once every 12 hours during a CGM session.
- **Recalibration** – may be required if one of the fingerstick BG values entered for Startup Calibration or Calibration Update is not accepted by the pump.

**NOTE:** You may see a brief delay in screen display immediately after entering a CGM calibration value. This is normal as the calibration value is processed.

⚠ **CONTRAINDICATION:** Taking acetaminophen (such as Tylenol®) containing medications while wearing the Sensor may falsely raise your Sensor glucose readings. The level of inaccuracy depends on the amount of acetaminophen (such as Tylenol®) active in your body.

⚠ **WARNING:** You Sensor glucose readings may be inaccurate if you calibrate less than every 12 hours.

⚠ **CAUTION:** To calibrate the CGM, you must enter the exact BG value that your BG meter displays within 5 minutes of a carefully performed BG measurement. Entering incorrect BG values or BG values from more than 5 minutes ago could result in inaccurate Sensor glucose readings.

When using your BG meter to obtain CGM calibration values:

- Always use a fingerstick test.
- **Do Not** use alternative sampling sites (e.g., palm or forearm).
- Always use the same BG meter for calibration for each CGM session.
- **Do Not** switch your BG meter in the middle of a CGM session.
- Follow your BG meter instructions for BG testing.
- It is important to follow proper BG testing techniques to ensure accurate calibration values and CGM performance.
CHAPTER 5 - CGM CALIBRATION

2-Hour CGM Startup Period Calibration

When the 2-hour CGM startup period ends, you will be prompted to enter 2 separate fingerstick BG values in your pump. Press \( \) to confirm the Warning.

1. Scroll to “BG Cal.” on the CGM Menu screen and press \( \)

2. The “BG value” field will be highlighted and flashing on the BG Calibrate screen. Use the \( \) buttons to enter the first of 2 fingerstick BG values. Press \( \) “CANCEL” will be highlighted. Scroll to “CALIBRATE” and press \( \). If you need to cancel the BG value, scroll to “CANCEL” and press \( \). In either case, you will return to the CGM Menu screen.

   \[ \text{NOTE: The value on the BG Calibrate screen will start at 6.7 mmol/L the first time you calibrate, and at the current CGM reading when in calibration.} \]

3. Repeat step 2 to enter the second BG value.

   \[ \text{NOTE: Suspending insulin delivery during the 2-hour CGM Startup period will not affect the initial calibration sequence, and the CGM session will remain active.} \]

12-hour CGM Calibration Update

Your CGM requires that you perform a calibration update at least once every 12 hours with a fingerstick BG value that you enter in the pump. Calibration update is necessary to make sure Sensor readings remain accurate and are close to your BG meter readings. Follow the steps under the preceding section 2-Hour CGM Startup Period Calibration for entering a BG value at any time. Any fingerstick BG value you may have entered in your pump during ezCarb and ezBG Bolus calculations may serve as a BG value for the calibration update (see Chapter 10 in Section I). \textbf{You only need to enter 1 fingerstick BG value for each 12-hour CGM calibration update.}

If you forget to enter a BG value during each 12-hour period, you will be prompted to enter one. Press \( \) to confirm the Warning and follow the steps for entering a BG value. The CGM Warning screen will re-appear until you enter a new BG fingerstick value that is accepted for calibration.
CGM Recalibration

When you enter a fingerstick BG value for calibration update, the CGM checks how well it is functioning compared to BG meter results. During each calibration update, you may be prompted for another fingerstick BG value. You may also be prompted for another fingerstick BG value during the 2-hour startup period.

When prompted, press to confirm the Warning and follow the steps for entering a BG value. You will continue to be reminded to enter a valid BG value until the BG value is accepted for recalibration. will appear on the CGM Data and CGM Trend screens in place of your current CGM reading until the BG value is accepted. You may also choose to end the CGM session (see Chapter 8 in Section II) after repeated unsuccessful attempts at recalibration.

**NOTE:**
- Do Not enter a BG value for CGM calibration if you see the or on the CGM Data or CGM Trend screens on your pump (see Chapter 6 in Section II). This means the pump and Transmitter/Sensor are not communicating. Refer to Chapter 12 in Section II for troubleshooting problems with CGM calibration.
- Any BG value you enter when using the ezBG or ezCarb feature on your pump can be used for CGM calibration update/recalibration. When prompted to choose if you want the BG value used for CGM calibration, select “Yes” and press .
CHAPTER 6 - VIEWING CGM INFORMATION ON YOUR PUMP

Your fingerstick BG meter only gives you a BG level at one point in time (like a still picture). However, the CGM information displayed on your pump will help you understand the rate of change and direction your glucose level is moving (like a video camera).

The Sensor sits in the fluid under your skin, not in your blood. The Sensor calculates a glucose reading from this fluid when you calibrate your CGM. So the glucose reading may be different than the fingerstick result you get from your BG meter.

During an active session, CGM readings will be sent from your Transmitter to your pump every 5 minutes. You may use your pump to view and analyze CGM data using the CGM Data and CGM Trend screens. CGM readings between 2.2 and 22.2 mmol/L will display as the actual value on CGM Data and CGM Trend screens. CGM readings above 22.2 mmol/L will display as HIGH, and CGM readings below 2.2 mmol/L will display as LOW, on CGM Data and CGM Trend screens.

The screens provide important information about your current and previous CGM readings, whether your CGM readings fall above or below High and Low (Glucose) Alert levels, and whether your glucose levels may be rising or falling too fast. It is important that you focus on the CGM trends and rate of change on your pump, rather than a single CGM reading. See Chapter 2 in Section II for CGM settings that impact how information is displayed on the CGM Data and CGM Trend screens.

⚠️ WARNING:
• The BG value from your BG meter should be used for treatment decisions, such as how much insulin you should take. The CGM does not replace a BG meter. BG values may differ from Sensor glucose readings. The direction, rate of glucose change, and trend graph from your CGM and displayed on your pump provide additional information to help with your diabetes management decisions.
• Symptoms of high and low glucose should not be ignored. If your Sensor glucose readings do not fit with your symptoms, you should measure your BG with a BG meter.
• When CGM readings are missing, rely on results from your BG meter.

⚠️ CAUTION: While insulin delivery is suspended, your CGM session will remain active, but CGM readings will not be recorded or displayed. As soon as insulin delivery resumes, CGM readings will start recording and displaying again.
CHAPTER 6 - VIEWING CGM INFORMATION ON YOUR PUMP

CGM Data Screen
The CGM Data screen provides a snapshot of your current glucose status. Each CGM Data screen displays the current time on your pump, your current CGM reading, any Insulin on Board (indicated by “IOB” on the screen), and Trend Arrows that represent how fast your glucose levels may be rising or falling.

See the charts on the following pages for the meaning of the various symbols that might appear on the CGM Data screen.

CGM Trend Screen
The CGM Trend screen provides a more detailed view of your glucose status, and includes a graphical display of your CGM readings over a time period you select (1, 3, 6, 12, or 24 hours). Each CGM Trend screen also includes the current time on your pump, your most recent CGM reading, High (Glucose) and Low (Glucose) Alert settings, and Trend Arrows that represent how fast your glucose levels may be rising or falling.

See the charts on the following pages for the meaning of the various symbols that might appear on the CGM Trend screen. During an active CGM session, you can access the CGM Trend screen by pressing the Contrast button/CGM shortcut to wake up the pump.

When the pump is in sleep mode, pressing the Contrast button/CGM shortcut will awaken the pump to the CGM Data or Trend screen last displayed when the pump went to sleep.

* Trend Arrows (on CGM Data and CGM Trend screens) and CGM data points (readings) on the CGM Trend screen are colour coded. An explanation of the Trend Arrows and the colour coding appears on the following pages.

† A symbol may appear in place of your current CGM reading on CGM Data and CGM Trend screens. An explanation of these symbols appears on the following pages.
CHAPTER 6 - VIEWING CGM INFORMATION ON YOUR PUMP

CGM Data and CGM Trend Screen Arrows and Colour Key

NOTE: The colour key applies to the Trend Arrows on the CGM Data and CGM Trend screens, and CGM data points (readings) on the CGM Trend screens.

Trend Arrows

These arrows indicate whether your glucose is rising or falling and at what rate.

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>↑↑</td>
<td>Rapidly rising: Your CGM glucose readings are rising more than 0.17 mmol/L each minute.</td>
</tr>
<tr>
<td>↑</td>
<td>Rising: Your CGM glucose readings are rising 0.11 – 0.17 mmol/L each minute.</td>
</tr>
<tr>
<td>↗</td>
<td>Slowly rising: Your CGM glucose readings are rising 0.06 – 0.11 mmol/L each minute.</td>
</tr>
<tr>
<td>→</td>
<td>Constant: Your CGM glucose readings are steady (not increasing/decreasing more than 0.06 mmol/L each minute).</td>
</tr>
<tr>
<td>↓</td>
<td>Slowly falling: Your CGM glucose readings are falling 0.06 – 0.11 mmol/L each minute.</td>
</tr>
<tr>
<td>↓↓</td>
<td>Rapidly falling: Your CGM glucose readings are falling more than 0.17 mmol/L each minute.</td>
</tr>
<tr>
<td>No arrow(s)</td>
<td>No Rate of Change Information: The CGM cannot always calculate how fast your CGM glucose readings are rising or falling.</td>
</tr>
</tbody>
</table>

NOTE:
- Trend Arrows do not appear when CGM readings are “missing” on the CGM Data and CGM Trend screens (see Missing CGM Readings in this chapter).
- If the Trend Arrows are missing but you are concerned that your BG level may be rising or falling, take a fingerstick BG test to check your level. It is important to use the Trend Arrow information in conjunction with the CGM Trend screen graphs.
- Do Not take action based on the Trend Arrow information only: Use the information on the CGM Trend screen graph and results from your BG meter in addition to the Trend Arrows to make an informed decision about your glucose management.

Colour Key

<table>
<thead>
<tr>
<th>Arrows</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red arrows</td>
<td>(or red CGM data points on the CGM Trend screens) indicate your most recent CGM reading was at or above the High (Glucose) Alert level you set in your pump.</td>
</tr>
<tr>
<td>Green arrows</td>
<td>(or green CGM data points on the CGM Trend screens) indicate your most recent CGM reading was between the High and Low (Glucose) Alert levels you set in your pump.</td>
</tr>
<tr>
<td>Blue arrows</td>
<td>(or blue CGM data points on the CGM Trend screens) indicate your most recent CGM reading was at or below the Low (Glucose) Alert level you set in your pump.</td>
</tr>
</tbody>
</table>
Symbols That Might Appear in Place of your Current CGM Reading

These symbols may appear in place of your current CGM reading on the CGM Data and CGM Trend screens.

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>There is no active CGM session.</td>
</tr>
<tr>
<td></td>
<td>A Sensor was inserted within the last 30 minutes. No CGM readings are available.</td>
</tr>
<tr>
<td></td>
<td>A Sensor was inserted between 30 and 60 minutes ago. No CGM readings are available.</td>
</tr>
<tr>
<td></td>
<td>A Sensor was inserted between 60 and 90 minutes ago. No CGM readings are available.</td>
</tr>
<tr>
<td></td>
<td>A Sensor was inserted between 90 and 120 minutes ago. No CGM readings are available.</td>
</tr>
<tr>
<td>ERR0</td>
<td>Sensor Error 0. Wait 15 minutes and then enter at least one fingerstick BG value into the pump to recalibrate.</td>
</tr>
<tr>
<td>ERR1</td>
<td>Sensor Error 1. Wait 1 hour and then enter at least one fingerstick BG value into the pump to recalibrate.</td>
</tr>
<tr>
<td>BG</td>
<td>Fingerstick BG values needed for calibration.</td>
</tr>
<tr>
<td>???</td>
<td>The CGM reading cannot be displayed at this time.</td>
</tr>
<tr>
<td>ANT</td>
<td>There was no communication between the pump and Transmitter within the last 5 minutes.</td>
</tr>
<tr>
<td>HIGH</td>
<td>Most recent CGM reading was higher than 22.2 mmol/L.</td>
</tr>
<tr>
<td>LOW</td>
<td>Most recent CGM reading was lower than 2.2 mmol/L.</td>
</tr>
</tbody>
</table>
Accessing the CGM Data and CGM Trend screens from the CGM Menu

1. From the MAIN MENU screen, scroll to “CGM” and press .

2. Scroll to “Trend Graph” and press .

3. The last CGM Trend screen or Data screen (if you have just awakened the pump display) will be displayed. Use the / buttons to scroll through the 1-hr, 3-hr, 6-hr, 12-hr, and 24-hr CGM Trend screens, and then the CGM Data screen. CGM readings (data points) on CGM Trend screens track from right (most recent) to left (oldest) for the time period covered. The CGM Trend screens show you where your glucose levels have been and where your glucose levels are headed. To return to the CGM Menu screen, press while viewing the CGM Data screen or any CGM Trend screen.
CHAPTER 6 - VIEWING CGM INFORMATION ON YOUR PUMP

CGM High/Low and Rise/Fall Rate Alerts

The High and Low (Glucose) Alerts let you know when your CGM readings fall outside the levels you set in the pump. The Rise and Fall Rate (of change) Alerts let you know when your CGM readings are rising or falling faster than the limits you set in the pump. You have the option to enable or disable these alerts, and customize the levels/limits based on your healthcare professional’s recommendations (see Chapter 2 in Section II). In addition to the information on CGM Data and CGM Trend screens, these Alerts are another way of letting you know when your glucose levels may be getting dangerously high or low.

⚠️ WARNING:
- The BG value from your BG meter should be used for treatment decisions, such as how much insulin you should take. The CGM does not replace a BG meter. BG values may differ from Sensor glucose readings. The direction, rate of glucose change, and trend graph from your CGM and displayed on your pump provide additional information to help with your diabetes management decisions.
- Symptoms of high and low glucose should not be ignored. If your Sensor glucose readings do not fit with your symptoms, you should measure your BG with a BG meter.

NOTE: The CGM Alerts discussed here are separate from the LOW BG and HIGH BG Alerts that display/sound on your pump when you enter a BG value below 3.9 mmol/L or above 13.9 mmol/L.

In these 4 instances, insulin deliveries and your CGM session will continue. Press \( \text{-confirm} \) to continue but be prepared to treat High or Low BG according to your healthcare professional’s recommendations.

An additional CGM Alarm will display/sound on your pump when your most recent CGM reading is at or below 3.1 mmol/L. This Alarm limit is fixed, and cannot be changed or disabled. You will be re-alerted every 30 minutes if your current CGM reading remains at or below 3.1 mmol/L.

Refer to Chapter 10 in Section II for additional information about CGM alerts that display/sound on your pump.
CHAPTER 6 - VIEWING CGM INFORMATION ON YOUR PUMP

Missing CGM Readings

Periodically you may notice you are “missing” CGM readings on the CGM Data and CGM Trend screens. “Missing” means one or more CGM readings have not been received or were not understood by your pump, and are not available for display. You can identify “missing” data by a symbol appearing instead of your most recent CGM reading and trend arrow(s), or that there are gaps (no data) when displaying CGM Trend graphs.

This can happen when:
• Your pump and Sensor/Transmitter are not communicating.
• Your pump does not recognize the Sensor/Transmitter signal.
• Your pump is waiting for you to enter a fingerstick BG value to recalibrate the CGM.
• The CGM reading cannot be displayed.

⚠️ WARNING:
• The BG value from your BG meter should be used for treatment decisions, such as how much insulin you should take. The CGM does not replace a BG meter. BG values may differ from Sensor glucose readings. The direction, rate of glucose change, and trend graph from your CGM and displayed on your pump provide additional information to help with your diabetes management decisions.
• Symptoms of high and low glucose should not be ignored. If your Sensor glucose readings do not fit with your symptoms, you should measure your BG with a BG meter.
• When CGM readings are missing, rely on results from your BG meter.

Missing CGM Readings – [ANT] symbol appears in place of current CGM reading

When the [ANT] symbol appears on either the CGM Data or CGM Trend screens, your pump did not receive the last CGM reading from your Sensor/Transmitter. This is most likely due to your pump and Sensor/Transmitter not being in RF range.

Try moving your pump and Sensor/Transmitter closer to each other and wait at least 10 minutes for the next CGM reading to be received. Also verify that the correct Transmitter ID has been entered into the pump. Your pump and Sensor/Transmitter may lose communication when you are lying on a waterbed, using an electric blanket, or have other metallic objects nearby. If the [ANT] symbol remains on the display, there is still a problem with your pump receiving CGM readings. Contact Animas Customer Technical Support for assistance.

NOTE:
When you see [ANT] instead of a CGM reading, taking additional fingerstick BG tests and entering the values into your pump will not result in further CGM readings appearing on the display. Any fingerstick BG values entered into your pump while the [ANT] is displayed will be ignored.
CHAPTER 6 - VIEWING CGM INFORMATION ON YOUR PUMP

**Missing CGM Readings – ??? appears in place of current CGM reading**

Any time you see the ??? symbol on either the CGM Data or CGM Trend screens, your pump did not understand a CGM reading that it received from your Sensor/Transmitter.

Check that your Sensor is still sticking well to your skin and that nothing else is rubbing against the Sensor Pod, such as clothing or seat belts. Check that the Transmitter is snapped in on both sides of the Sensor Pod.

*NOTE:*

- ??? may appear on CGM Data or CGM Trend screens for several hours. Contact Animas Customer Technical Support for assistance if ??? continues to appear for more than a few hours.
- When you see ??? instead of a CGM reading, taking additional fingerstick BG tests and entering the values into your pump will not result in further CGM readings appearing on the display. Any fingerstick BG values entered into your pump while the ??? is displayed will be ignored.

Sometimes the ??? problem will resolve itself and your CGM session will continue to provide CGM readings. Other problems may be serious enough to result in a Sensor failure, and your CGM session will terminate. Your pump will notify you on the display if that happens. **Your pump will continue to deliver insulin if there is a Sensor failure.** After pressing to confirm the Warning, contact Animas Customer Technical Support for assistance.
**Missing CGM Readings – [BG] appears in place of current CGM reading**

Any time you see the [BG] symbol on either the CGM Data or CGM Trend screens, your pump requires that you enter a fingerstick BG value for a calibration update or recalibration.

A CGM Warning screen will also appear to remind you to enter a fingerstick BG value.

Follow the steps for entering a fingerstick BG value (see Chapter 5 in Section II). After entering a fingerstick BG value, a CGM reading should immediately appear on the display, and CGM readings should resume being updated every 5 minutes. If a CGM reading does not immediately appear, follow any display prompts and refer to Chapter 10 in Section II to troubleshoot any warnings, alarms, or alerts.

The [BG] symbol will remain on CGM Data and CGM Trend screens until the calibration update/recalibration was successful. Your pump will then begin/resume displaying CGM readings.
You can review certain historical CGM records on your pump, or you can use compatible diabetes management software to track, review and analyze pump CGM history on your computer.

**CGM Session Start History**

This selection displays the start date and time of your current CGM session.

**NOTE:** CGM Session Start history is only available if a CGM session is currently active.

1. From the Main Menu screen, scroll to “CGM” and press 

2. Scroll to “History” and press 

3. With “Session Start” highlighted on the CGM History screen, press 

The start date and time of your current CGM session will appear on the display. Only your last (current) CGM Session Start record is available for viewing. To return to the CGM History screen, highlight “CGM History” on any Session Start record screen and press .
CHAPTER 7 - CGM HISTORY SCREENS

**Last BG Calibration History**

This selection displays the date, time and value of the last BG calibration entered in your pump.

1. From the CGM History screen, scroll to “Last BG Cal”. Press \( \textcolor{red}{\text{OK}} \).

The BG value, date and time of your last BG calibration will appear on the display. Only your last (current) BG calibration record is available for viewing. To return to the CGM History screen, highlight “CGM History” on any BG Calibration record screen and press \( \textcolor{red}{\text{OK}} \).
CHAPTER 7 - CGM HISTORY SCREENS

CGM Alert History

This selection displays the date, time, alert code and description of your last 300 CGM alerts.

1. From the CGM History screen, scroll to “Warnings”. Press \[\text{OK}\].

The CGM Warnings screen will be displayed, and “CGM History” will be highlighted. The most recent CGM Alert record will be displayed, along with the date, time, code, and description of the alert.

2. To go to other Alarm records, first scroll to the “Record” field at the top of the screen and press \[\text{OK}\] so that the highlight over the record number is flashing. Then use the \[\text{Up/Down}\] buttons to scroll to other CGM Alarm records.

To return to the CGM History screen, highlight “CGM History” on any Alert record screen and press \[\text{OK}\].
Ending a CGM Session Before the 7-Day Expiration Time

At any point during the CGM session, you may also choose to end the session before its intended expiration time.

1. From the MAIN MENU screen, scroll to “CGM” and press .

2. Scroll to “Start/Stop” and press .

Sensor Expiration

When you are within six hours of the expiration time, your pump will begin prompting you with a series of reminders that your session will be expiring shortly. You will be reminded with 6 hours remaining, 2 hours remaining, and 30 minutes remaining. Press to confirm the Warning at any of the reminder times.

During this time your pump will continue to receive CGM readings. Once the final 30 minutes ends, you will be prompted that your CGM session has ended. Press to confirm the CGM Warning and return to the CGM Menu screen. You will no longer receive CGM readings on your pump until you replace the Sensor and begin a new CGM session (see Chapter 4 in Section II).
3. With “STOP” highlighted on the Stop CGM screen, press

You will be notified on your pump display that you have stopped the CGM session. After a few seconds, you will return to the CGM Menu screen.

NOTE:
Stopping a CGM session will not extend the Sensor life beyond 7 days. Your Sensor session will end 7 days after you start a CGM session.

Early Sensor Expiration

In some cases, the CGM session may end before you have completed a full 7-day period. See Chapter 10 in Section II for more information on the Sensor Failure Warnings that may be displayed on your pump.

⚠️ WARNING: Sensors may fracture on rare occasions. If a Sensor breaks and no portion of it is visible above the skin, Do Not attempt to remove it. Seek professional medical help if you have symptoms of infection or inflammation – redness, swelling or pain – at the insertion site. If you experience a broken Sensor, please report this to Animas Customer Technical Support.

For patients undergoing an MRI with a retained wire broken off from a Sensor, in-vitro MRI testing did not detect any safety hazards. There was no significant migration or heating of the wire and imaging artifacts were limited to the area around the wire.

The pump and any type of metallic infusion set must be removed prior to an MRI, and left outside the room during the procedure.
CHAPTER 9 - REMOVING THE TRANSMITTER AND SENSOR

At the end of every CGM session, you will need to remove your Transmitter and Sensor.

Removing the Sensor

When you are ready to remove the Sensor, make sure to pull out the Sensor Pod while the Transmitter is still attached. Gently peel up the Sensor Pod adhesive patch from your skin. This will pull out your Sensor.

⚠️ WARNING: Sensors may fracture on rare occasions. If a Sensor breaks and no portion of it is visible above the skin, Do Not attempt to remove it. Seek professional medical help if you have symptoms of infection or inflammation – redness, swelling or pain – at the insertion site. If you experience a broken Sensor, please report this to Animas Customer Technical Support.

For patients undergoing an MRI with a retained wire broken off from a Sensor, in-vitro MRI testing did not detect any safety hazards. There was no significant migration or heating of the wire and imaging artifacts were limited to the area around the wire.

The pump and any type of metallic infusion set must be removed prior to an MRI, and left outside the room during the procedure.

Removing the Transmitter

Once the Sensor Pod is off your body, you will need to remove the Transmitter (Do Not dispose of the Transmitter). To remove the Transmitter, you can use either of the two methods that follow:

Method 1

The Safety Lock, once removed from the Applicator, can be used as a tool to remove the Transmitter.

1. Place the Sensor Pod on a table.
2. Hold the rounded edge of the Safety Lock.
3. Make sure the jagged edge of the Safety Lock is facing down (the direction away from the removal arrow) as shown below:

4. Insert the jagged edges so that they “hug” the wide end of the Transmitter in the Sensor Pod. Press the Safety Lock down until you cannot press down anymore, and the Transmitter will “pop” out of the Sensor Pod.
5. Remove the Transmitter, clean it, and store it in a cool, dry place until your next CGM session.
CHAPTER 9 - REMOVING THE TRANSMITTER AND SENSOR

Method 2

If you did not save the Safety Lock, you can simply use your fingers to spread out the tabs at the back of the Sensor Pod (end closest to the Sensor Pod tab wings). The Transmitter will “pop” out of the Sensor Pod.

NOTE:

• Do Not remove the Transmitter from the Sensor Pod while Sensor Pod is attached to your skin.

• Do Not dispose of your Transmitter. It is reusable. The same Transmitter is used for each Sensor session until you have reached the end of the Transmitter battery life.

• Consult your local waste management authorities for appropriate procedures for disposal of blood containing components (Sensor and Applicator).
CHAPTER 10 - CGM SAFETY SYSTEM AND ALERTS

Your pump **DOES NOT** have the same “progressive” warnings and alarms safety system for CGM functions as it does for insulin delivery functions. Refer to *Chapter 11* in *Section I* for more information on the progressive warnings and alarms safety system for pump alarms not related to CGM functions.

This chapter reviews the warnings and alerts that appear and sound on your pump regarding CGM functions. See *Chapter 11* in *Section I* for information on warnings, alarms, and alerts associated with insulin delivery on your pump.

If multiple CGM alerts, warnings, or alarms occur simultaneously, the pump will display the most critical one first. After confirming the condition with the highest priority (the one currently displayed), the alert, alarm, or warning with the next highest priority will be displayed until confirmed. Each alert, alarm, and/or warning must be confirmed separately until all simultaneous conditions have been confirmed.

The CGM warnings and alerts that are described in this chapter apply only to the Dexcom G4 PLATINUM Sensor and Transmitter part of your Animas® Vibe® System. They do not apply to any other Dexcom CGM system.

### Warning: 2 BG Values Required For 2-Hour Startup Calibration

<table>
<thead>
<tr>
<th>Cause</th>
<th>No BG values have been entered in the pump following the 2-hour CGM startup session.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effect</td>
<td>Insulin deliveries continue. CGM does not start.</td>
</tr>
<tr>
<td>Message</td>
<td>Displayed each time pump is awakened until confirmed, and action is taken.</td>
</tr>
<tr>
<td>Action</td>
<td>Press [Confirm] to confirm. Take 2 fingerstick BG tests and enter values in pump. <strong>Do Not</strong> enter a fingerstick BG value if [ANT] or [??] appear on the CGM Trend or Data screen.</td>
</tr>
<tr>
<td>Beeps/Vib</td>
<td>User selected (under CGM Setup menu options), every 3 minutes until confirmed. If confirmed, snooze for 15 minutes. No progression.</td>
</tr>
</tbody>
</table>

| CGM Warning | Enter 2 Startup BGs | Confirm |
### Warning: Second BG Value Required For 2-Hour Startup Calibration

<table>
<thead>
<tr>
<th><strong>Cause</strong></th>
<th>Only 1 of the 2 required BG values has been entered in the pump following the 2-hour CGM startup session.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Effect</strong></td>
<td>Insulin deliveries continue. CGM does not start.</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Displayed each time pump is awakened until confirmed, and action is taken.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Press <strong>OK</strong> to confirm. Take fingerstick BG test and enter value in pump. <strong>Do Not</strong> enter a fingerstick BG value if <a href="#">ANT</a> or <a href="#">??</a> appear on the CGM Trend or Data screen.</td>
</tr>
<tr>
<td><strong>Beeps/Vib</strong></td>
<td>User selected (under CGM Setup menu options), every 3 minutes until confirmed. If confirmed, snooze for 15 minutes. No progression.</td>
</tr>
</tbody>
</table>

### Warning: BG Value Required For Calibration Update

<table>
<thead>
<tr>
<th><strong>Cause</strong></th>
<th>No BG values have been entered in the pump in the last 12 hours.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Effect</strong></td>
<td>Insulin deliveries continue. CGM continues.</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Displayed each time pump is awakened until confirmed, and action is taken.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Press <strong>OK</strong> to confirm. Take fingerstick BG test and enter value in pump. <strong>Do Not</strong> enter a fingerstick BG value if <a href="#">ANT</a> or <a href="#">??</a> appear on the CGM Trend or Data screen.</td>
</tr>
<tr>
<td><strong>Beeps/Vib</strong></td>
<td>Silent (no Beeps/Vib). If confirmed, snooze for 15 minutes. No progression.</td>
</tr>
</tbody>
</table>
### Warning: BG Value Required For Recalibration

<table>
<thead>
<tr>
<th><strong>Cause</strong></th>
<th>The BG value entered has not been accepted for startup calibration or calibration update.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Effect</strong></td>
<td>Insulin deliveries continue. CGM continues but with a possible CGM data gap.</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Displayed each time pump is awakened until confirmed, and action is taken.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Press ( \text{confirm} ) to confirm. Take another fingerstick BG test and enter value in pump. You will continue to be reminded to enter a valid BG value until the BG value is accepted for recalibration. <strong>Do Not</strong> enter a fingerstick BG value if ( \text{ANT} ) or ( \text{??} ) appear on the CGM Trend or Data screen.</td>
</tr>
<tr>
<td><strong>Beeps/Vib</strong></td>
<td>User selected (under CGM Setup menu options), every 3 minutes up to 3 times or until confirmed. No progression.</td>
</tr>
</tbody>
</table>

### Warning: Use Fingerstick BG For Treatment Decisions and CGM Calibration

<table>
<thead>
<tr>
<th><strong>Cause</strong></th>
<th>Appears at start of every CGM session.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Effect</strong></td>
<td>Insulin deliveries continue. CGM continues.</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Displayed each time pump is awakened until confirmed.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Press ( \text{confirm} ) to confirm. Take fingerstick BG test before adjusting insulin dose, eating, exercising, or making any other treatment decisions.</td>
</tr>
<tr>
<td><strong>Beeps/Vib</strong></td>
<td>User selected (under CGM Setup menu options), one time. No progression.</td>
</tr>
</tbody>
</table>
### Warning: CGM Session Expires In 6 Hours

<table>
<thead>
<tr>
<th><strong>Cause</strong></th>
<th>Current CGM Session has 6 hours left until 7-day period ends.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Effect</strong></td>
<td>Insulin deliveries continue. CGM continues.</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Displayed each time pump is awakened until confirmed. Each time the pump is awakened, the screen will display the actual time remaining rather than the original 6 hours displayed when the Warning first appeared.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Press &quot;Confirm&quot; to confirm. Replace Sensor in 6 hours and start new CGM session.</td>
</tr>
<tr>
<td><strong>Beeps/Vib</strong></td>
<td>Silent (no Beeps/Vib), one time. No progression.</td>
</tr>
</tbody>
</table>

### Warning: CGM Session Expires In 2 Hours

<table>
<thead>
<tr>
<th><strong>Cause</strong></th>
<th>Current CGM Session has 2 hours left until 7-day period ends.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Effect</strong></td>
<td>Insulin deliveries continue. CGM continues.</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Displayed each time pump is awakened until confirmed. Each time the pump is awakened, the screen will display the actual time remaining rather than the original 2 hours displayed when the Warning first appeared.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Press &quot;Confirm&quot; to confirm. Replace Sensor in 2 hours and start new CGM session.</td>
</tr>
<tr>
<td><strong>Beeps/Vib</strong></td>
<td>Silent (no Beeps/Vib), one time. No progression.</td>
</tr>
</tbody>
</table>
### Warning: CGM Session Expires In 30 Minutes

<table>
<thead>
<tr>
<th><strong>Cause</strong></th>
<th>Current CGM Session has 30 minutes left until 7-day period ends.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Effect</strong></td>
<td>Insulin deliveries continue. CGM continues.</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Displayed each time pump is awakened until confirmed. Each time the pump is awakened, the screen will display the actual time remaining rather than the original 30 minutes displayed when the Warning first appeared.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Press ( \text{Confirm} ) to confirm. Replace Sensor in 30 minutes and start new CGM session.</td>
</tr>
<tr>
<td><strong>Beeps/Vib</strong></td>
<td>User selected (under CGM Setup menu options), every 3 minutes up to 3 times, or until confirmed. No progression.</td>
</tr>
</tbody>
</table>

### CGM Session Expired

<table>
<thead>
<tr>
<th><strong>Cause</strong></th>
<th>Current CGM Session has expired.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Effect</strong></td>
<td>Insulin deliveries continue. CGM session ends.</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Displayed each time pump is awakened until confirmed.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Press ( \text{Confirm} ) to confirm. Replace Sensor and start new session.</td>
</tr>
<tr>
<td><strong>Beeps/Vib</strong></td>
<td>User selected (under CGM Setup menu options), every 3 minutes up to 3 times, or until confirmed. No progression.</td>
</tr>
</tbody>
</table>
### Warning: Glucose Level Above High Glucose Alert Level

<table>
<thead>
<tr>
<th><strong>Cause</strong></th>
<th>Last CGM reading at or above limit set in pump.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Effect</strong></td>
<td>Insulin deliveries continue. CGM continues.</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Displayed each time pump is awakened until confirmed.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Press <code>OK</code> to confirm. Check BG with fingerstick test.</td>
</tr>
<tr>
<td><strong>Beeps/Vib</strong></td>
<td>User selected (under CGM Setup menu options), every 3 minutes until confirmed. If confirmed, snooze for user selected snooze time. No progression.</td>
</tr>
</tbody>
</table>

### Warning: Glucose Level Below Low Glucose Alert Level

<table>
<thead>
<tr>
<th><strong>Cause</strong></th>
<th>Last CGM reading at or below limit set in pump.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Effect</strong></td>
<td>Insulin deliveries continue. CGM continues.</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Displayed each time pump is awakened until confirmed.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Press <code>OK</code> to confirm. Check BG with fingerstick test.</td>
</tr>
<tr>
<td><strong>Beeps/Vib</strong></td>
<td>User selected (under CGM Setup menu options), every 3 minutes until confirmed. If confirmed, snooze for user selected snooze time. No progression.</td>
</tr>
</tbody>
</table>
### CGM Warning: Glucose Level Falling Faster Than Fall Rate Limit

<table>
<thead>
<tr>
<th><strong>Cause</strong></th>
<th>CGM readings are falling at or faster than Fall Rate limit set in pump.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Effect</strong></td>
<td>Insulin deliveries continue. CGM continues.</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Displayed each time pump is awakened until confirmed.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Press [确认] to confirm. Check BG with fingerstick test.</td>
</tr>
<tr>
<td><strong>Beeps/Vib</strong></td>
<td>User selected (under CGM Setup menu options), every 3 minutes up to 3 times, or until confirmed. No progression.</td>
</tr>
</tbody>
</table>

### CGM Warning: Glucose Level Rising Faster Than Rise Rate Limit

<table>
<thead>
<tr>
<th><strong>Cause</strong></th>
<th>CGM readings are rising at or faster than Rise Rate limit set in pump.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Effect</strong></td>
<td>Insulin deliveries continue. CGM continues.</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Displayed each time pump is awakened until confirmed.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Press [确认] to confirm. Check BG with fingerstick test.</td>
</tr>
<tr>
<td><strong>Beeps/Vib</strong></td>
<td>User selected (under CGM Setup menu options), every 3 minutes up to 3 times, or until confirmed. No progression.</td>
</tr>
</tbody>
</table>

---

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### Warning: Invalid Transmitter ID

<table>
<thead>
<tr>
<th><strong>Cause</strong></th>
<th>Transmitter ID entered in pump is not valid.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Effect</strong></td>
<td>Insulin deliveries continue. CGM session does not start.</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Displayed until confirmed or until pump goes into sleep mode.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Press ( ) to re-enter the correct ID or select “Cancel” and press ( ) to return to the CGM Menu. Refer to Chapter 2 in Section II for information on entering the Transmitter ID.</td>
</tr>
<tr>
<td><strong>Beeps/Vib</strong></td>
<td>User selected (under CGM Setup menu options), one time. No progression.</td>
</tr>
</tbody>
</table>

### Warning: Pump and Sensor/Transmitter Not Within RF range

<table>
<thead>
<tr>
<th><strong>Cause</strong></th>
<th>Pump and Sensor/Transmitter are not within 3.6 meters (12 feet) of each other. Pump is unable to receive CGM readings and Sensor/Transmitter is unable to receive BG values for calibration.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Effect</strong></td>
<td>Insulin deliveries continue. CGM data gap for time period devices were not within RF range.</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Displayed each time pump is awakened until confirmed.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Press ( ) to confirm. Move devices closer and wait 10 minutes.</td>
</tr>
<tr>
<td><strong>Beeps/Vib</strong></td>
<td>User selected (under CGM Setup menu options), every 3 minutes until confirmed. If confirmed, snooze for user selected snooze time. No progression.</td>
</tr>
</tbody>
</table>
### Warning: CGM Session Stopped

<table>
<thead>
<tr>
<th><strong>Cause</strong></th>
<th>CGM session stopped due to a problem with the Sensor or Transmitter.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Effect</strong></td>
<td>Insulin deliveries continue. CGM session stops.</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Displayed each time pump is awakened until confirmed.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Press ( \text{ok} ) to confirm. Replace Sensor and start new CGM session.</td>
</tr>
<tr>
<td><strong>Beeps/Vib</strong></td>
<td>User selected (under CGM Setup menu options), every 3 minutes up to 3 times or until confirmed. No progression.</td>
</tr>
</tbody>
</table>

### Warning: Sensor Failure

<table>
<thead>
<tr>
<th><strong>Cause</strong></th>
<th>Sensor error indicating that Sensor is not functioning properly.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Effect</strong></td>
<td>Insulin deliveries continue. CGM session ends.</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Displayed each time pump is awakened until confirmed.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Press ( \text{ok} ) to confirm. Contact Animas Customer Technical Support for assistance.</td>
</tr>
<tr>
<td><strong>Beeps/Vib</strong></td>
<td>User selected (under CGM Setup menu options), every 3 minutes up to 3 times or until confirmed. No progression.</td>
</tr>
</tbody>
</table>
### Warning: Sensor Error 1

<table>
<thead>
<tr>
<th><strong>Cause</strong></th>
<th>Sensor error indicating that Sensor is not functioning properly.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Effect</strong></td>
<td>Insulin deliveries continue. CGM data gap during time periods Sensor was not functioning.</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Displayed each time pump is awakened until confirmed.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Press to confirm. Wait one hour and then enter at least one fingerstick BG value into the pump to recalibrate. If no CGM readings appear after entering additional BG values, Sensor should be replaced.</td>
</tr>
<tr>
<td><strong>Beeps/Vib</strong></td>
<td>User selected (under CGM Setup menu options), every 3 minutes until confirmed. If confirmed, snooze for 15 minutes.</td>
</tr>
</tbody>
</table>

### Warning: Sensor Error 0

<table>
<thead>
<tr>
<th><strong>Cause</strong></th>
<th>Sensor error indicating that Sensor is not functioning properly.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Effect</strong></td>
<td>Insulin deliveries continue. CGM data gap during time periods Sensor was not functioning.</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Displayed each time pump is awakened until confirmed.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Press to confirm. Wait 15 minutes and then enter at least one fingerstick BG value into the pump to recalibrate. If no CGM readings appear after entering additional BG values, Sensor should be replaced.</td>
</tr>
<tr>
<td><strong>Beeps/Vib</strong></td>
<td>User selected (under CGM Setup menu options), every 3 minutes until confirmed. If confirmed, snooze for 15 minutes.</td>
</tr>
</tbody>
</table>
**Warning: CGM Data Failure**

<table>
<thead>
<tr>
<th><strong>Cause</strong></th>
<th>Sensor/Transmitter and pump are having a communication problem.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Effect</strong></td>
<td>Insulin deliveries continue. CGM session stops.</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Displayed each time pump is awakened until confirmed.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Press to confirm. Contact Animas Customer Technical Support for assistance.</td>
</tr>
<tr>
<td><strong>Beeps/Vib</strong></td>
<td>User selected (under CGM Setup menu options), every 3 minutes until confirmed. No progression.</td>
</tr>
</tbody>
</table>

**Warning: Transmitter Low Battery**

<table>
<thead>
<tr>
<th><strong>Cause</strong></th>
<th>Transmitter battery power is low.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Effect</strong></td>
<td>Insulin deliveries continue. CGM continues but with possible data gaps.</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Displayed each time the pump is awakened until confirmed.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Press to confirm. Replace the Transmitter.</td>
</tr>
<tr>
<td><strong>Beeps/Vib</strong></td>
<td>User selected (under CGM Setup menu options), every 3 minutes until confirmed. No progression.</td>
</tr>
</tbody>
</table>
### Warning: Glucose Level Below 3.1 mmol/L

<table>
<thead>
<tr>
<th>Cause</th>
<th>Last CGM reading at or below 3.1 mmol/L (fixed limit set in pump – not user selected).</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effect</td>
<td>Insulin deliveries continue. CGM continues.</td>
</tr>
<tr>
<td>Message</td>
<td>Displayed each time pump is awakened until confirmed.</td>
</tr>
<tr>
<td>Action</td>
<td>Press (\text{ok}) to confirm. Check BG with fingerstick test.</td>
</tr>
<tr>
<td>Beeps/Vib</td>
<td>Every 3 minutes until confirmed. If confirmed, snooze for 30 minutes. No progression.</td>
</tr>
</tbody>
</table>

### Alert: CGM Session Stopped By User

<table>
<thead>
<tr>
<th>Cause</th>
<th>User stopped current CGM session.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effect</td>
<td>Insulin deliveries continue. CGM session ends.</td>
</tr>
<tr>
<td>Message</td>
<td>Displayed once for 4 seconds.</td>
</tr>
<tr>
<td>Action</td>
<td>None required.</td>
</tr>
<tr>
<td>Beeps/Vib</td>
<td>User selected (under CGM Setup menu options), one time. No progression.</td>
</tr>
</tbody>
</table>
### CGM Alert: CGM Session Active

<table>
<thead>
<tr>
<th><strong>Cause</strong></th>
<th>Transmitter ID cannot be entered if CGM session is active.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Effect</strong></td>
<td>Insulin deliveries continue. CGM continues.</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Displayed once for 4 seconds.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>None required.</td>
</tr>
<tr>
<td><strong>Beeps/Vib</strong></td>
<td>User selected (under CGM Setup menu options), one time. No progression.</td>
</tr>
</tbody>
</table>

### CGM Alert: CGM Session Not Active

<table>
<thead>
<tr>
<th><strong>Cause</strong></th>
<th>You are trying to enter a BG Calibration value on the pump CGM Menu but no CGM session is active.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Effect</strong></td>
<td>Insulin deliveries continue. No CGM.</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Displayed once for 4 seconds.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Start new CGM session if desired.</td>
</tr>
<tr>
<td><strong>Beeps/Vib</strong></td>
<td>User selected (under CGM Setup menu options), one time. No progression.</td>
</tr>
<tr>
<td><strong>Alert:</strong> CGM Data Not Available While Pump Suspended</td>
<td></td>
</tr>
<tr>
<td>---------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td><strong>Cause</strong></td>
<td>CGM menu options not available on pump while it is suspended.</td>
</tr>
<tr>
<td><strong>Effect</strong></td>
<td>Insulin delivery currently suspended. Active CGM session continues but CGM data not available on pump. If you want to temporarily suspend insulin delivery but still view CGM readings, do not use the suspend delivery feature. Instead, set Temp Basal to OFF for the time period you want basal delivery suspended.</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Displayed once for 4 seconds.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Resume pump operation.</td>
</tr>
<tr>
<td><strong>Beeps/Vib</strong></td>
<td>User selected (under CGM Setup menu options), one time. No progression.</td>
</tr>
</tbody>
</table>
CHAPTER 11 - CARE AND MAINTENANCE OF YOUR DEXCOM G4 PLATINUM SENSOR AND TRANSMITTER

Care and Maintenance of your Dexcom G4 PLATINUM Sensor and Transmitter

Only use Dexcom-supplied parts (Dexcom G4 PLATINUM Sensors and Transmitters) with your Animas® Vibe® System. Do Not use Sensors and Transmitters from other companies.

Cleaning and Disinfection

Wipe the bottom of the transmitter with a damp cloth or isopropyl alcohol wipe. Place the transmitter on a clean, dry cloth, and air dry for 2-3 minutes.

Cleaning the Transmitter

1. Wipe the outside of the Transmitter with a wrung-out, slightly water-dampened cloth or isopropyl alcohol wipe.

2. The Transmitter is water resistant when snapped into the Sensor pod, but Do Not soak the Transmitter by itself in liquid.

3. Do Not use soap, nail polish remover, or paint thinner. Only use isopropyl alcohol and water.

4. Do Not use wipes that contain adhesives (e.g., Skin-Prep).

5. Place the Transmitter on a clean, dry cloth and air dry for 2-3 minutes.
Disinfecting the Transmitter

Disinfection removes and destroys microorganisms and pathogens from the surface of the Transmitter. Disinfect the Transmitter periodically or whenever you suspect that blood or body fluid has come in contact with its surface. If a second person, such as a healthcare provider, is helping you operate the Transmitter, it should be disinfected before the second person uses it. You will need gloves, clean, dry absorbent wipes, 70% isopropyl alcohol wipes and several disinfectant wipes containing a 1:10 bleach solution (such as Alcavis® Bleach Wipe 1:10 DIN 02333899, or Clorox® Professional Disinfecting Bleach Wipes DIN 02349272) or sodium hypochlorite (household bleach) wipes.

Preparation:
1. Use precaution when handling products worn or handled by another person.
2. Wash hands thoroughly.
3. Wear personal protective equipment as appropriate (gloves, protective goggles, gowns, etc.).

Disinfection:
1. Wear gloves.
2. Thoroughly pre-clean the surface of any visible contamination with one disinfectant wipe (wipe the front, back and all four sides of the device).
3. Thoroughly wet the surface with a second disinfectant wipe to wipe the front, back and all four sides.
4. The surface should remain wet for at least 1 minute at room temperature (21° C/70° F) to ensure proper disinfection. Use additional disinfection wipes to make sure the surface stays wet for the full minute.
5. Dry the Transmitter with a clean, dry absorbent wipe.
6. Wipe the outside of the Transmitter with a 70% isopropyl alcohol wipe to remove any disinfectant residue.
7. Dry the Transmitter with a clean, dry absorbent wipe.
8. Place the Transmitter on a clean, dry cloth and air dry for 2-3 minutes.
9. Remove gloves and dispose of gloves as biohazard waste.
10. Wash hands thoroughly.
Storage

Sensor

• Keep the Sensor in its sterile packaging until you are ready to use it.

• Do Not insert Sensors past the Use By Date printed on the Sensor package label. The Use By Date format is YYYY-MM-DD. Sensors must be inserted on or before the end of the calendar day printed on the Sensor package label.

• Storage temperature should be 2° C – 25° C (36° F – 77° F). You may store your Sensors in the refrigerator if it is within this temperature range. Sensors should not be stored in a freezer.

• Store at humidity levels between 0% – 95% relative humidity.

Transmitter

• Keep the Transmitter clean and protected when not in use.

• Storage temperature should be 0° C – 45° C (32° F – 113° F).

• Store at humidity levels between 10% – 95% relative humidity.

Disposal

Consult your local waste management authorities for appropriate procedures for disposal of devices containing electronic waste (Transmitter) or blood containing components (Sensor and Applicator).
# Problems with Sensor Insertion

Problems can occur during Sensor insertion, and in keeping the Sensor Pod attached to your body. The most common problems are listed in the following table, along with some suggested solutions.

<table>
<thead>
<tr>
<th>POSSIBLE PROBLEMS</th>
<th>SUGGESTED SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety Lock will not detach from the Applicator</td>
<td>• Make sure to pull straight out using the arrows on the Safety Lock as a guide.</td>
</tr>
<tr>
<td></td>
<td>• <strong>Do Not</strong> wiggle back and forth.</td>
</tr>
<tr>
<td>Applicator Collar will not pull up</td>
<td>• Make sure the white plunger is completely pressed down before pulling the collar up.</td>
</tr>
<tr>
<td></td>
<td>• Use force when pulling the collar up.</td>
</tr>
<tr>
<td>Applicator will not detach from the Sensor Pod</td>
<td>• Pull the Collar all the way up. It should be very close to the top of the Applicator.</td>
</tr>
<tr>
<td></td>
<td>• Make sure the Transmitter Latch is down before squeezing the Release Tabs.</td>
</tr>
<tr>
<td></td>
<td>• Then squeeze the center part of the ribbed Release Tabs on the side of the Sensor Pod, and lift the Applicator away from your body.</td>
</tr>
<tr>
<td>Transmitter Latch will not remove easily</td>
<td>• Hold the Sensor Pod down with one hand and twist the Latch with the other hand to remove it.</td>
</tr>
<tr>
<td></td>
<td>• <strong>Do Not</strong> try to snap it straight off.</td>
</tr>
<tr>
<td>Sensor Pod does not remain stuck on body</td>
<td>• <strong>Do Not</strong> use any cream or lotion on your skin where you attach the Sensor Pod.</td>
</tr>
<tr>
<td></td>
<td>• Clean the skin with alcohol and make sure it is completely dry before you attach the Sensor Pod.</td>
</tr>
<tr>
<td></td>
<td>• <strong>Do Not</strong> leave any substance on the skin where the Needle inserts.</td>
</tr>
<tr>
<td></td>
<td>• You may use medical tape (such as Bioclusive™ transparent dressing, Blenderm™ or Tegaderm™) over the white adhesive patch of the Sensor Pod, but <strong>Do Not</strong> place the tape over the Transmitter or the plastic parts of the Sensor Pod.</td>
</tr>
</tbody>
</table>

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CHAPTER 12 - TROUBLESHOOTING PROBLEMS WITH YOUR DEXCOM G4 PLATINUM SENSOR AND TRANSMITTER
### Problems with CGM Calibration/Recalibration

Your CGM requires calibration with fingerstick BG values at various times. After entering a BG value(s) into your pump, you may still be prompted to enter another BG value(s).

<table>
<thead>
<tr>
<th>CGM CALIBRATION ISSUE</th>
<th>SUGGESTED SOLUTION</th>
</tr>
</thead>
</table>
| Repeat prompts to enter BG values during startup calibration | • You must enter 2 separate fingerstick BG values when prompted at the end of the 2-hour startup period.  
• BG values must be within 2.2 – 22.2 mmol/L and must have been taken within the last 5 minutes.  
• You may continue to be reminded to enter another BG value(s) if one or both of the BG values you have entered is/are not accepted. The reminder will re-appear until both BG values are accepted and startup calibration is successful. |
| Repeat prompts to enter BG values during calibration update/recalibration | • You must enter at least one fingerstick BG value every 12 hours for the calibration update.  
• BG values must be within 2.2 – 22.2 mmol/L and must have been taken within the last 5 minutes.  
• You may continue to be reminded to enter another BG value(s) if the one you entered is not accepted. The reminder will re-appear until the BG value is accepted and calibration update/recalibration is successful. |
| Continued prompts to enter BG values even after following all instructions | • Your pump and Sensor/Transmitter may not be communicating. Make sure the devices are within RF range. Check to see if the [???] or [ANT] symbol appears in place of your current CGM reading on the CGM Data or Trend screen. **Do Not** enter fingerstick BG values for startup calibration or calibration update/recalibration if [???] or [ANT] appears. Wait 10 minutes to see if the devices start communicating and then enter a new fingerstick BG value.  
• BG values must be within 2.2 – 22.2 mmol/L and must have been taken within the last 5 minutes.  
• If your pump and Sensor/Transmitter are communicating, and you continue to be prompted for additional fingerstick BG values, contact Animas Customer Technical Support for assistance. |
Problems with RF communication

Certain conditions may cause RF communication between your pump and Sensor/Transmitter to be lost or interrupted. When RF communication is lost or interrupted, ??? or ANT will appear instead of your current CGM reading on the CGM Data and Trend screens. If your pump and Sensor/Transmitter are not within RF range, the Transmitter Out of Range Warning may also display/sound (see Chapter 10 in Section II). The most common causes for RF communication to be lost or interrupted are listed in the table below, along with some suggested solutions. You will need to wait 10 minutes once RF communication resumes for CGM readings to begin appearing again on your pump.

<table>
<thead>
<tr>
<th>POSSIBLE CAUSE OF RF COMMUNICATION PROBLEMS</th>
<th>SUGGESTED SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Your pump and Sensor/Transmitter are not within allowable RF range</td>
<td>Make sure your pump and Sensor/Transmitter are within 3.6 meters (12 feet) of each other.</td>
</tr>
<tr>
<td>Damp clothing</td>
<td>Change to dry clothing.</td>
</tr>
<tr>
<td>Electric blankets</td>
<td>Remove the blanket.</td>
</tr>
<tr>
<td>Waterbeds</td>
<td>Switch to regular bed.</td>
</tr>
<tr>
<td>Nearby metallic objects</td>
<td>Remove or move away from metallic objects.</td>
</tr>
<tr>
<td>High levels of electrical noise</td>
<td>Move away from the source of the noise.</td>
</tr>
</tbody>
</table>
CHAPTER 12 - TROUBLESHOOTING PROBLEMS WITH YOUR DEXCOM G4 PLATINUM
SENSOR AND TRANSMITTER

Sensor Failures/Errors

Your CGM session may be interrupted or stopped before the end of a full 7-day period due to Sensor failure or error.

Sensor Failures – The Sensor Failure Warning or CGM Data Failure Warning (see Chapter 10 in Section II) will display/sound, and the CGM session will stop. Contact Animas Customer Technical Support for assistance before inserting a new Sensor and starting a new CGM session.

Sensor Errors – The Sensor Error 0/Error 1 Warning (see Chapter 10 in Section II) will display/sound. There may be a CGM data gap during the period the Sensor was not functioning properly. Sensor errors may resolve themselves and the CGM session will continue. The Sensor should be replaced if no CGM readings appear after recalibrating.

Follow the guidelines below to have the best result with your Sensors.

<table>
<thead>
<tr>
<th>POSSIBLE PROBLEMS</th>
<th>SUGGESTED SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Expired/damaged Sensors, or Transmitter/Sensor not attached/secured properly</td>
<td>• <strong>Do Not</strong> use expired Sensors.</td>
</tr>
<tr>
<td></td>
<td>• Make sure your Transmitter is snapped in fully.</td>
</tr>
<tr>
<td></td>
<td>• Make sure your Sensor Pod is not dislodged or peeling up.</td>
</tr>
</tbody>
</table>
### Technical Specifications – Dexcom G4 PLATINUM Sensor and Transmitter

**Dexcom G4 PLATINUM Sensor**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Displayed Glucose Range</td>
<td>2.2 – 22.2 mmol/L (40 – 400 mg/dL)</td>
</tr>
<tr>
<td>Sensor Life</td>
<td>Up to 7 days</td>
</tr>
<tr>
<td>Calibration</td>
<td>Fingerstick test with commercially-available BG meter</td>
</tr>
<tr>
<td>Calibration Range</td>
<td>2.2 – 22.2 mmol/L (40 – 400 mg/dL)</td>
</tr>
<tr>
<td>Storage Conditions</td>
<td>Temperature: 2°C – 25°C (36°F – 77°F)</td>
</tr>
<tr>
<td></td>
<td>Humidity: 0% – 95% RH</td>
</tr>
<tr>
<td>Sterilization</td>
<td>Sterile by radiation</td>
</tr>
</tbody>
</table>
## Dexcom G4 PLATINUM Transmitter

<table>
<thead>
<tr>
<th><strong>Dimensions (including Sensor Pod)</strong></th>
<th>Refer to the Dexcom G4 PLATINUM User’s Guide</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Weight (including Sensor Pod)</strong></td>
<td>Refer to the Dexcom G4 PLATINUM User’s Guide</td>
</tr>
<tr>
<td><strong>Communication Range</strong></td>
<td>3.6 meters (12 feet)</td>
</tr>
<tr>
<td><strong>Frequency Range</strong></td>
<td>2.425 – 2.477 GHz</td>
</tr>
<tr>
<td><strong>Power Supply</strong></td>
<td>Silver oxide batteries (not replaceable)</td>
</tr>
<tr>
<td><strong>Operational Conditions</strong></td>
<td>Temperature: 10°C – 42°C (50°F – 108°F)</td>
</tr>
<tr>
<td></td>
<td>Humidity: 10% – 95% RH</td>
</tr>
<tr>
<td><strong>Storage Conditions</strong></td>
<td>Temperature: 0°C – 45°C (32°F – 113°F)</td>
</tr>
<tr>
<td></td>
<td>Humidity: 10% – 95% RH</td>
</tr>
<tr>
<td><strong>Operating Altitude</strong></td>
<td>-152 to 3657 meters (-498 to 11,998 feet)</td>
</tr>
<tr>
<td><strong>Limited Warranty</strong></td>
<td>6 months</td>
</tr>
<tr>
<td><strong>Moisture Protection</strong></td>
<td>IP28: Suitable for continuous immersion in water (24 hours at 2.4 meters (8 feet))</td>
</tr>
<tr>
<td><strong>Protection Against Electrical Shock</strong></td>
<td>Type BF applied part</td>
</tr>
</tbody>
</table>
### Dexcom G4 PLATINUM Transmitter Performance Characteristics

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>PERFORMANCE CHARACTERISTICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Allocation</td>
<td>ISM Band</td>
</tr>
<tr>
<td>Transmitter Frequency Range</td>
<td>2.425 – 2.477 GHz</td>
</tr>
<tr>
<td>Bandwidth</td>
<td>270.833 kHz</td>
</tr>
<tr>
<td>Maximum Output Power</td>
<td>1.25 mW EIRP</td>
</tr>
<tr>
<td>Modulation</td>
<td>Minimum Shift Key</td>
</tr>
<tr>
<td>Data Rate</td>
<td>50 kbps</td>
</tr>
<tr>
<td>Total Packet</td>
<td>224 bits</td>
</tr>
<tr>
<td>Transmit Duty Cycle</td>
<td>4.48 ms at each of 4 transmitter frequencies, every 5 minutes</td>
</tr>
<tr>
<td>Data Detection Range</td>
<td>3.6 meters (12 feet)</td>
</tr>
</tbody>
</table>
Electromagnetic Emissions:

The information contained in this section is intended to provide guidance on the proper operation of the Animas® Vibe® System with respect to electromagnetic compatibility (EMC). Following this guidance will not guarantee faultless operation but should provide reasonable assurance of such. The tables in this section are required by the EMC standard, IEC 60601-1-2.

Medical electrical systems need special precautions regarding electromagnetic compatibility (EMC) and need to be installed and put into service according to the EMC information provided in this Owner’s Booklet.

Portable and mobile RF equipment can effect medical electrical systems.

Cables and accessories not specified for use with the Animas® Vibe® System by Animas® are not authorized. Use of such unauthorized cables or accessories may adversely impact safety, performance and EMC (increased emissions or decreased immunity).

Care should be taken if the Animas® Vibe® System is adjacent to or stacked upon other electrical equipment. If such use is unavoidable, it should be verified through observation that neither product is affected by the proximate use.

<table>
<thead>
<tr>
<th>Guidance and Manufacturer’s Declaration on Electromagnetic Emissions</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Animas® Vibe® System is intended for use in the electromagnetic environment specified below. The customer or the user of the Animas® Vibe® System should assure that it is used in such an environment.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emissions Test</th>
<th>Compliance</th>
<th>Electromagnetic Environment – Guidance</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF emissions CISPR 11</td>
<td>Group 1</td>
<td>The Animas® Vibe® System uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.</td>
</tr>
<tr>
<td>RF emissions CISPR 11</td>
<td>Class B</td>
<td></td>
</tr>
<tr>
<td>Harmonic emissions IEC 61000-3-2</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Voltage fluctuations/ flicker emissions IEC 61000-3-3</td>
<td>Not applicable</td>
<td></td>
</tr>
</tbody>
</table>
### Guidance and Manufacturer’s Declaration – Electromagnetic Immunity

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

<table>
<thead>
<tr>
<th>Immunity Test</th>
<th>IEC 60601 Test Level</th>
<th>Compliance Level</th>
<th>Electromagnetic Environment – Guidance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrostatic discharge (ESD) IEC 61000-4-2</td>
<td>± 6 kV contact</td>
<td>± 8 kV contact</td>
<td>Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.</td>
</tr>
<tr>
<td></td>
<td>± 8 kV air</td>
<td>± 15 kV air</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(pump, IEC 60601-2-24)</td>
<td>± 6 kV contact</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>± 8 kV air</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Transmitter)</td>
<td></td>
</tr>
<tr>
<td>Electrical fast transient/burst IEC 61000-4-4</td>
<td>± 2 kV for power</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td></td>
<td>supply lines</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>± 1 kV for input/output lines</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Surge IEC 61000-4-5</td>
<td>± 1 kV line(s) to line(s)</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td></td>
<td>± 2 kV line(s) to earth</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Voltage dips, short interruptions and voltage variations</td>
<td>&lt;5 % $U_T$</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>on power supply input lines IEC 61000-4-11</td>
<td>(95 % dip in $U_T$)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>for 0.5 cycle</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>40 % $U_T$</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(60 % dip in $U_T$)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>for 5 cycles</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>70 % $U_T$</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(30 % dip in $U_T$)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>for 25 cycles</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>&lt;5 % $U_T$</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(95 % dip in $U_T$)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>for 5 s</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Frequency (50/60 Hz) magnetic field IEC 61000-4-8</td>
<td>3 A/m</td>
<td>400 A/m</td>
<td>Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.</td>
</tr>
<tr>
<td></td>
<td>(pump, IEC 60601-2-24)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 A/m</td>
<td>(Transmitter)</td>
<td></td>
</tr>
</tbody>
</table>

*NOTE: $U_T$ is the a.c. mains voltage prior to application of the test level.*
NOTE 1: At 80 MHz and 800 MHz, the higher frequency range applies.
NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

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

b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.
Recommended separation distances between portable and mobile RF communications equipment and the Animas® Vibe® Insulin Pump

The Animas® Vibe® System is intended for use in the electromagnetic environment in which radiated RF disturbances are controlled. The customer or user of the Animas® Vibe® System can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Animas® Vibe® System as recommended below, according to the maximum output power of the communications equipment.

<table>
<thead>
<tr>
<th>Rated maximum output power of transmitter</th>
<th>150 kHz to 80 MHz (d = \left[\frac{3.5}{\sqrt{P}}\right])</th>
<th>80 MHz to 800 MHz (d = 0.35 \sqrt{P})</th>
<th>800 MHz to 2.5 GHz (d = 0.7 \sqrt{P})</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.01 watts</td>
<td>not applicable</td>
<td>0.035 meters</td>
<td>0.070 meters</td>
</tr>
<tr>
<td>0.1 watts</td>
<td>not applicable</td>
<td>0.11 meters</td>
<td>0.22 meters</td>
</tr>
<tr>
<td>1 watt</td>
<td>not applicable</td>
<td>0.35 meters</td>
<td>0.70 meters</td>
</tr>
<tr>
<td>10 watts</td>
<td>not applicable</td>
<td>1.11 meters</td>
<td>2.2 meters</td>
</tr>
<tr>
<td>100 watts</td>
<td>not applicable</td>
<td>3.5 meters</td>
<td>7.0 meters</td>
</tr>
</tbody>
</table>

For transmitters rated at a maximum output power not listed above, the recommended separation distance \(d\) in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where \(P\) is the maximum power rating of the transmitter in watts (W) according to the transmitter manufacturer.

**NOTE 1:** At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

**NOTE 2:** These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.
Pump flow accuracy upon initial start up (per IEC 60601-2-24)
Average flow rate during a 30 minute period. The measurements were taken at an intermediate basal rate of 2.0 U/hr in accordance with 60601-2-24:1998 at room temperature.

Pump flow accuracy after initial stabilization period (per IEC 60601-2-24)
The Trumpet curve shows the accuracy of the flow rate during a 5 hour period (300 deliveries) as a function of an averaging window. The reported percent error deviation is calculated from the overall weight increase over the full $T_2$ time period.

(The above pump flow test indicates that the insulin pump delivered with an accuracy of 0.38%).
Appendix A: Glossary
**alpha cells** - Alpha cells are found in the pancreas. They produce a hormone called glucagon, which raises BG levels.

**alternative site (BG) testing** - This is when you obtain BG values from somewhere on your body other than your fingertip. **Do Not** use BG values from alternative site testing for CGM calibration.

**applicator** - See **Sensor applicator**.

**audio bolus** - Your pump has a special feature that lets you deliver a bolus without having to look at the screen display. This feature is convenient if you wear your pump under your clothing. Once you activate and program this feature, you can use the soft rubber button on the right side of your pump to deliver a bolus.

**basal rate** - The basal rate is the amount of insulin that is continuously delivered by an insulin pump. It is measured in units per hour (U/Hr). The basal rate usually provides about 40% to 60% of the daily total delivery of insulin.

**beta cells** - Beta cells are found in the pancreas. They produce insulin, which lowers BG levels. In type 1 diabetes mellitus, the beta cells are destroyed, so the body can no longer produce insulin.

**blood glucose (BG) levels** - BG levels are the measure of how much glucose (sugar) is in the blood. The normal level is about 3.9 – 6.1 mmol/L.

**blood glucose (BG) meter** - Any commercially-available BG meter can be used with your Animas® Vibe® System.

**blood glucose (BG) value** - A fingerstick BG test result taken with your commercially-available BG meter.

**bolus** - A bolus is the amount of insulin delivered at one time, usually before a meal or when BG is high.

**calibration** - See **CGM calibration**.

**cannula** - A cannula is a small tube that is inserted into the body. Some infusion sets are designed so that only the cannula remains in the body and the needle used for insertion is removed.

**CGM calibration** - This is when you enter fingerstick BG values into the pump for initial startup period and at least once every 12 hours thereafter. Calibrations are needed for your Animas® Vibe® System to display continuous glucose readings and trend information. **(Do Not)** use alternative site testing for CGM calibration.

**CGM components** - The Sensor, Transmitter, and other components used to insert/remove the Sensor.

**CGM data gaps** - This can happen when the pump does not display a CGM reading that is sent from the Transmitter. Symbols may appear instead of a CGM reading to let you know that the pump cannot display a reading.

**CGM reading** - The continuous glucose monitoring value sent to your pump every 5 minutes.

**CGM rise and fall (rate of change) alerts** - Alerts based on how fast your CGM readings rise/fall.

**CGM safety lock** - The Safety Lock keeps the Needle inside the Applicator before you are ready to insert. It also helps you snap the Transmitter out of the Sensor Pod after your CGM session has ended.

**CGM startup period** - The 2-hour startup period after you tell the pump you have inserted a new Sensor (CGM readings cannot be provided during this time).

**CGM trends** - Trends let you see the pattern of your glucose levels over time; you can see where your glucose levels have been and where your glucose levels are headed. The pump displays five glucose Trend Graphs: the 1-Hour, 3-Hour, 6-Hour, 12-Hour, and 24-Hour Graphs. Each Trend Graph shows glucose trends over the amount of time shown on the screen.

**CGM trend (rate of change) arrows** - Arrows on CGM Data and Trend screens that indicate how fast your CGM readings are changing. Seven different arrows show you when your glucose speed and direction change.
**combo bolus** - Your pump lets you split a bolus amount into 2 parts, a Normal portion and an Extended portion. The Normal portion is delivered all at once and the Extended portion is delivered over an extended period of time that you set. A combo bolus is useful when eating foods that contain carbs that are absorbed more slowly over time.

**continuous glucose monitoring (CGM)** - The automatic measurement of glucose levels every few minutes using a method/device other than a traditional BG meter.

**dawn phenomenon** - More insulin may be required in the early morning hours of normal sleep to counteract the release of several hormones that act to increase BG levels. This increased need for insulin is known as dawn phenomenon and may cause a person with diabetes to have a high BG level in the morning upon waking. Basal rate delivery by the Animas® Vibe® Insulin Pump can be programmed to compensate for dawn phenomenon.

**default** - A pump setting that is selected automatically unless another option is chosen.

**diabetes** - Diabetes is a complex disease in which the body cannot maintain healthy BG levels because either enough insulin cannot be produced or the body cannot appropriately use insulin. In type 1 diabetes, the body no longer produces insulin and in type 2 diabetes, the body cannot use insulin properly.

**diabetic ketoacidosis (DKA)** - DKA results when there is not enough insulin available to help glucose enter the cells where it is used for energy. The body, in turn, burns muscle and fat for energy. A waste product of fat burning is ketones. Ketones accumulate in the blood and then pass through the urine and lungs. This condition can be identified by urine and/or blood tests. DKA usually requires hospitalization and can be fatal if not promptly treated.

**fingerstick** - A blood glucose test taken with a blood glucose meter using a blood sample obtained from the fingertip.

**gastroparesis** - Gastroparesis is a complication of diabetes that causes delayed emptying of the stomach, resulting in unpredictable swings in BG levels.

**glucagon** - Glucagon is a hormone produced by the alpha cells in the pancreas. It causes BG levels to rise.

**glucose** - Glucose is a carbohydrate and the body’s most important source of energy. It is produced from digested food, by the normal action of the liver, and is carried by the blood and other fluids throughout the body.

**hyperglycemia** - Hyperglycemia is also known as high blood glucose (BG). It occurs when BG levels rise above 10.0 mmol/L, and the body does not have enough or cannot use insulin to process food. Symptoms of hyperglycemia include nausea, vomiting, muscle and joint aches, blurred vision, excessive thirst, and frequent urination. Over time, weight loss can result. Hyperglycemia can occur even while using an insulin pump and can lead to diabetic ketoacidosis (DKA) if untreated.

**hypoglycemia** - Hypoglycemia is also known as low blood glucose (BG). It occurs when BG levels drop to below 3.9 mmol/L. This can happen if a person with diabetes has taken too much insulin or has exercised more than usual. Symptoms of hypoglycemia include dizziness, shakiness, rapid heartbeat, sudden hunger, cold or clammy skin, fuzzy vision, confusion, mood changes, and tingling or numbness in the hands, arms, tongue, or lips. Hypoglycemia can occur even while using an insulin pump, and if left untreated, can lead to unconsciousness and diabetic coma.

**infrared** - Infrared is a wireless means by which the Animas® Vibe® Insulin Pump communicates with external devices using an optical signal which is invisible to the human eye.

**infusion set** - An infusion set consists of a length of thin plastic tubing (available in various lengths) with a Luer-lock connector at one end, and at the other end, a very small cannula that is placed under the skin. It is connected to the insulin pump and used to deliver insulin to the body.
**infusion site** - The infusion site is the place on the body where the infusion set needle is inserted under the skin.

**insulin** - Insulin is a hormone produced by the beta cells in the pancreas. Insulin is needed by the body to regulate the production and use of glucose.

**insulin limits** - Insulin limits are a programmable feature of the Animas® Vibe® Insulin Pump. After consulting with your healthcare team, you can use the Advanced Setup menu to program maximum limits for basal rate delivery, bolus delivery, 2-hour, and total daily delivery.

**insulin on board** - Refers to how much insulin remains in your body from a previous bolus. Knowing how much insulin remains allows you to adjust your next bolus amount accordingly to avoid delivering too much insulin. You can use the Insulin on Board feature on your pump to account for any remaining insulin when calculating suggested bolus amounts. “Insulin on Board” will often appear in an abbreviated form as “IOB” on the pump display as well as in example display screens.

**insulin pump** - An insulin pump is a small, battery-powered device that mechanically pumps measured amounts of insulin through an infusion set into the body. THE PUMP IS NOT AUTOMATIC. You program and control it, and you must perform four to six BG tests daily to ensure delivery of appropriate amounts of insulin by the pump.

**insulin sensitivity factor (ISF)** - Refers to how much you can lower your BG (in mmol/L) with 1 unit of insulin. Your ISF is one of several factors you use in calculating the amount of insulin you should deliver to cover for a high BG. Your pump will use the ISF(s) you have programmed into your pump when calculating suggested bolus amounts.

**insulin to carb (I:C) ratio** - Refers to how many carbs you can cover with 1 unit of insulin. Your I:C ratio is one of several factors you use in calculating the amount of insulin you should deliver to cover a carb amount. Your pump will use the I:C ratio(s) you have programmed into your pump when calculating suggested bolus amounts.

**ketones** - Ketones, or ketone bodies, are substances produced by normal liver activity, and used by muscle tissue. In uncontrolled diabetes, the process becomes unbalanced and ketones can accumulate in the blood, pass through the urine and ultimately result in diabetic ketoacidosis (DKA).

**Luer-lock** - A Luer-lock, or Luer connection, is a standardized, specially threaded fitting used to connect the infusion set to the pump’s insulin cartridge.

**maximum total daily dose (TDD) delivery warning** - You can program your pump to alert you when combined basal and bolus insulin delivery will exceed a maximum daily amount you have set in your pump.

**maximum two-hour (2hr) delivery warning** - You can program your pump to alert you when combined basal and bolus insulin delivery will exceed a maximum 2-hour amount you have set in your pump.

**mmol/L** - mmol/L is the unit used to measure glucose levels. It is the abbreviation for millimoles of glucose per liter of blood. To convert mmol/L to mg/dL, divide by 0.055 or multiply by 18.02.

**occlusion** - Occlusion means “blockage.” The Animas® Vibe® Insulin Pump is designed to be able to sense when delivery of the insulin is being blocked for some reason. The pump will automatically stop delivering insulin and give an alarm to alert you to clear the occlusion and re-start the pump.

**o-ring** - Both the cartridge and the battery cap contain an “o” shaped ring made of a soft material that functions as a seal when compressed. O-rings operate properly only if the surface is free of defects (cuts, scratches, abrasion).

**pancreas** - The pancreas is a glandular organ just behind the stomach, next to the liver. It produces digestive enzymes used to break down proteins in food. It contains alpha cells, which produce glucagon, and beta cells, which produce insulin.
radio frequency (RF) - How CGM readings are sent from the Transmitter to the pump.

RF range - The allowable distance between the pump and Sensor/Transmitter for them to be able to communicate.

rise and fall alerts - See CGM rise and fall alerts.

safety lock - See CGM safety lock.

sensor applicator - A disposable piece that comes attached to the Sensor Pod, and inserts the Sensor Probe under the skin. There is a Needle inside the Applicator that you remove once you have inserted the Sensor Probe.

sensor pod - The small base of the Sensor attached to your belly that holds the Transmitter and Sensor Probe in place. The Sensor Pod and Transmitter are all that remain on your skin during each Sensor use.

temporary (or temp) basal - Setting a temporary basal lets you increase or decrease your current basal program rate for a desired period of time. Your current basal rate is based on the basal program that is currently active in your pump. When you set a temporary basal, you select a percentage increase or decrease, and then set the desired time period the increase or decrease will stay in effect.

transmitter - The CGM component that snaps into the Sensor Pod and wirelessly sends CGM readings to your pump.

transmitter ID - Transmitter ID that is entered into your pump to talk to the Transmitter.

transmitter latch - The small disposable piece that snaps the Transmitter into the Sensor Pod. It is removed after the Transmitter is snapped in.

trend arrow - See CGM trend arrow.

stress hormones - Stress hormones (or “counter-regulatory” hormones) are released by the body in times of intense physical or emotional stress. These hormones cause the body to release glucose. If the glucose is not used as energy, hyperglycemia and ketoacidosis can result.

subcutaneous - Subcutaneous means beneath the skin. The infusion set needle is placed subcutaneously.

type 1 diabetes - Type 1 diabetes results from destruction of the beta cells in the pancreas. People with type 1 diabetes mellitus must use insulin to regulate their BG levels.

type 2 diabetes - Type 2 diabetes usually occurs in people 40 years or older. People with type 2 diabetes have a progressive loss of beta cells over time. They can sometimes regulate their BG levels by following an individual meal plan, exercising and taking antidiabetic pills. They frequently require insulin for optimal BG control.
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