

ACCU-CHEK[®] *Aviva Combo*



BLOOD GLUCOSE METER

**Standard Owner's Booklet
for Self-Testing Only**



Before You Start Testing

WARNING

Inspect the test strip container before using the test strips for the first time. If you see any damage to the container, if anything prevents the cap from closing properly, or if the container was open before using for the first time, do not use the test strips. Do not perform a control test. Contact Roche. Damaged test strips can cause inaccurate results, which could lead to improper therapy.

About the meter and test strips

- Carefully read and follow the instructions in the Getting Started Guide, the Standard Owner's Booklet, the Advanced Owner's Booklet, and Package Inserts for the test strips and control solutions. Not following the instructions may lead to a wrong result or improper treatment, causing you health problems.
- Set the time and date on your meter before you begin testing.
- Inspect the test strip container before using the test strips for the first time. If you see any damage to the container cap or if anything prevents the cap from closing properly, do not use the test strips. Contact Accu-Chek Customer Care Service Center at 1-800-688-4578. Damaged test strips can cause inaccurate results, which could lead to improper treatment.
- Carefully dispose of used test strips and lancets.
- Home use of the Accu-Chek Aviva Combo system is limited to capillary whole blood testing.

NOTE

The terms “blood sugar” and “blood glucose” have the same meaning. In this manual we will use the term “blood glucose” when referring to “blood sugar.”

About Your New Meter

- The meter is designed and can be used for testing fresh capillary whole blood samples (for example, blood from a fingertip).
- Only use Accu-Chek Aviva Plus test strips. Other test strips will give inaccurate results.
- Although you always apply whole blood to the test strip, the system has been calibrated to deliver plasma-like values for easier comparison to lab results.
- The meter, test strips, and control solution are only for use outside the body (in vitro). Do not eat the test strips. Do not swallow or inject the control solution, or use the control solution for any purpose other than testing the Accu-Chek Aviva Combo system.

About Testing Yourself or Others

- If you are very dehydrated or urinating frequently, you may get an inaccurate test result. If you think you are dehydrated, call your healthcare professional right away.
- Some people with diabetes do not experience symptoms of low blood glucose (hypoglycemia). Others, such as children or people who are unconscious or have certain disabilities, may not be able to communicate their symptoms to caregivers. For these reasons, do not change any treatment without first talking to a healthcare professional.
- Run a control test when you open a new box of test strips or if you think that your test result is incorrect. Running a control test lets you know that the meter and test strips are working properly.
- If peripheral circulation is impaired, collection of fresh capillary whole blood from the approved sample sites is not advised as the results might not be a true reflection of the physiological blood glucose level. This may apply in the following circumstances: severe dehydration as a result of diabetic ketoacidosis or due to hyperglycemic hyperosmolar non-ketotic syndrome, hypotension, shock, decompensated heart failure NYHA Class IV, or peripheral arterial occlusive disease.
- Not to be used for patients who are critically ill.

- Refer to the Test Strip and Control Solution package Inserts for additional health-related information.
- It is always a good idea to have a back-up testing method available. Failure to test could cause a delay in treatment decisions and lead to a serious medical condition. Examples of back-up testing methods include a back-up meter or testing by a lab. Ask your healthcare professional or pharmacist about other possible back-up methods.

DO NOT CHANGE YOUR TREATMENT BASED ON A SINGLE RESULT THAT DOES NOT MATCH HOW YOU FEEL OR IF YOU BELIEVE THAT YOUR TEST RESULT COULD BE INCORRECT.

If your blood glucose result doesn't match how you feel and you have followed the instructions in your owner's booklets, follow your healthcare professional's instructions or call your healthcare professional.

Special Information to Consider When Using This Meter

- Do not use this device to measure blood glucose if you or a person to whom you are providing care is experiencing cardiovascular collapse (severe shock) or decreased peripheral blood flow.
- Consult your healthcare professional to determine if it is appropriate for your child to be taught how to use the meter system or any other medical products.

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Introduction

Whether the Accu-Chek Aviva Combo meter is your first blood glucose meter or you have used a meter for some time, please take the time to read the Getting Started Guide, the Standard Owner's Booklet, and the Advanced Owner's Booklet carefully before you use your new meter. To use it correctly and dependably, you need to understand its operation, screen displays, and all individual features.

Your new meter includes three booklets:

- **Getting Started Guide:**
Use this booklet to set up the meter.
- **Standard Owner's Booklet:**
Use this booklet for instructions on how to operate the standard features of the meter.
- **Advanced Owner's Booklet:**
Use this booklet for instructions on how to operate the advanced features of the meter.

Should you have any questions, please contact one of our customer support and service centers. A listing is at the back of this booklet.

This booklet includes information about:

- Understanding your new Accu-Chek Aviva Combo system
- Testing your blood glucose
- Control testing
- Managing your data
- Changing the meter settings
- Understanding the icons, reminders, warnings, and errors
- Maintenance
- Cleaning and disinfecting the meter and lancing device
- Troubleshooting
- Technical information

If you have questions, we are here to help. Just call Accu-Chek Customer Care Service Center at 1-800-688-4578. You can also visit www.accu-chek.com for diabetes management tools.

The Accu-Chek Aviva Combo System

The Accu-Chek Aviva Combo meter is for quantitative blood glucose testing using Accu-Chek Aviva Plus test strips. The meter has many features including:

- Controlling your Accu-Chek Spirit Combo pump
- Administering a bolus
- Bolus advice
- Daily time blocks that can be adjusted to fit your lifestyle
- Data management
- Data transfer
- Date reminders
- bG test reminders: Alarm clock, Target bG levels, and Health events
- An electronic diary that allows you to enter meal time, carbs, health, and bolus information with your blood glucose test results

For detailed information about the features of the meter, see Chapter 1, Understanding Your New System.

NOTE

Blood glucose and bG are interchangeable and mean the same thing.

Intended Use

The Accu-Chek Aviva Combo blood glucose system is intended for self-testing outside the body (in vitro diagnostic use) by people with diabetes at home as an aid to monitoring the effectiveness of diabetes control. The Accu-Chek Aviva Combo blood glucose monitoring system should not be used for the diagnosis or screening of diabetes or for neonatal use. Alternative site testing should NOT be used with the Accu-Chek Aviva Combo blood glucose monitoring system. The Accu-Chek Aviva Plus test strips are for use with the Accu-Chek Aviva Combo blood glucose meter to quantitatively measure glucose (sugar) in fresh capillary whole blood samples drawn from the fingertips. The Accu-Chek Aviva Combo meter can also be used to interface with, and remotely control, the Accu-Chek Spirit Combo insulin infusion pumps via radio frequency communication. The Accu-Chek Aviva Combo meter is also indicated for the management of diabetes by calculating an insulin dose or carbohydrate intake based on user-entered data.

The system includes:

- **Accu-Chek Aviva Combo meter with batteries and pre-inserted black code key**
- **Accu-Chek Aviva Plus test strips and black code key***
- **Accu-Chek Aviva control solution***
- **Accu-Chek FastClix Lancing Device***
- **Accu-Chek FastClix lancet drum***

*may be sold separately

WARNING

- Any object coming into contact with human blood is a potential source of infection (see: Clinical and Laboratory Standards Institute: Protection of Laboratory Workers from Occupationally Acquired Infections; Approved Guideline – Third Edition; CLSI document M29-A3, 2005).
- Choking hazard. Small parts. Keep away from children under the age of 3 years.

Why Regular Blood Glucose Testing Is Important

Testing your blood glucose regularly can make a big difference in how you manage your diabetes every day. Discussing your results with your healthcare professionals and following their advice about medicine, exercise, and food plans can help you better control your diabetes.

Important Information About Your New Meter

- The meter is designed for testing fresh whole blood samples (for example, blood from your fingertip). The meter is for outside the body (in vitro) use. It should not be used to diagnose diabetes.
- This meter requires Accu-Chek Aviva Plus test strips. Other test strips will give inaccurate results.
- The meter comes with the time and date preset. You may need to change the time to your time zone.
- If you have followed the steps in this booklet but still have symptoms that do not seem to match your test results, or if you have questions, talk to your healthcare professional.
- The Accu-Chek Aviva Combo system is intended for single patient use and should not be shared.

1 Understanding Your New System

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1.1 Overview

Your new meter has several features to assist you in managing your diabetes. It is important you understand the features and how to operate the meter correctly.

NOTE

- This booklet shows sample screens. The screens in this booklet may look slightly different from the screens on the meter. If you have any questions about the meter screens, contact Accu-Chek Customer Care Service Center at 1-800-688-4578.
- Blood glucose and bG are interchangeable and mean the same thing.

1.2 The Accu-Chek Aviva Combo Meter at a Glance

Display

Shows menus, results, messages, and data stored in the diary

Buttons

Press to enter menus or the diary, adjust settings, and scroll through results

Left/Right Soft Keys

Press to select the menu or option above the key

Power On/Off Button

Turns the meter on or off

Test Strip Slot

Insert test strip here

Backlight Button

Press to adjust the backlight level

Infrared (IR) Window

Transfers data from the meter to a computer

Code Key Slot

Black code key is pre-inserted here

Battery Door

Remove the battery door by pushing the tab and pulling up the door





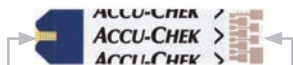
Batteries

Insert batteries according to the + and - symbols in the battery compartment.



Control Solution Bottle

(for example)



Test Strip

Yellow Window -
Touch blood drop or
control solution here.

Insert this end of the test
strip into the meter.



Test Strip Container

(for example)



Top View
Infrared (IR) Window



Code Key
(for example)



Side View
Pre-inserted black code key

NOTE

The meter is already coded and comes with a pre-inserted **black** code key that you never need to change. Even if you use test strips from test strip boxes that contain another code key that is a different color or has different code numbers, you never need to change the **black** code key again.

The meter has seven buttons and two soft keys.



NOTE


- You hear a sound every time an active button/soft key is pressed unless you turned off the key sound.
- Press  or insert a test strip to turn on the meter. If the meter displays the Time/Date screen, make the necessary changes and select Save.

Table of Buttons and Soft Keys















Button	Name	Function
	Left Arrow	▶ Move or scroll to the left in a screen.
	Right Arrow	▶ Move or scroll to the right in a screen.
	Up Arrow	▶ Move or scroll up in a screen.
	Down Arrow	▶ Move or scroll down in a screen.
	Left Soft Key	▶ Select the option above the key on the display.
	Right Soft Key	▶ Select the option above the key on the display.
	Enter	<ul style="list-style-type: none"> ▶ Select a menu or option. ▶ Save changes and exit the entry field.
	Backlight	<ul style="list-style-type: none"> ▶ Adjust the backlight level (low, medium, high). ▶ Turn <i>Bluetooth</i> wireless technology on and off (press and hold  in the BLUETOOTH screen).
	Power On/Off	▶ Turn the meter on and off.

Table of Button Combinations

Button Combination	Name	Function
When the buttons are locked, press and hold  and  until the Main Menu appears.	Unlock Keys	▶ Unlocks the buttons.
With the meter turned off, press and hold  and then press  .	Meter/Pump Pairing	▶ Begins meter and pump pairing.

1.3 The Accu-Chek Spirit Combo Insulin Pump at a Glance

Menu Key

Cycles through menus, functions, and information screens

OK Key

Selects current settings displayed on screen, saves changes, exits a screen, and allows the user to view the QUICK INFO screen

Display

Shows menus, messages, and data stored in the pump memory



Cartridge

Holds insulin

Adapter

Connects the cartridge to the infusion set

Up Key

Moves forward in an information screen, increases a setting, turns on the backlight, programs a Quick Bolus, cancels a Quick Bolus, and turns off the STOP-Warning

Down Key

Moves backward in an information screen, decreases a setting, programs a Quick Bolus, cancels a Quick Bolus, and turns off the STOP-Warning

Infusion Set

Connects the pump to your body to deliver insulin

For information about the pump, see the [Accu-Chek Spirit Combo Insulin Pump User Guide](#).

1.4 Summary of Features

Display

The meter has a full-color graphic LCD (Liquid Crystal Display) that displays current and historical information.

Backlight

- The backlight helps you read the information on the meter display under different lighting conditions.
- When the meter is turned on, the backlight is set to the medium level.
- Adjust the backlight level by pressing and releasing the backlight button.
- The backlight adjusts from low, to medium, to high, and back to low again.
- If set to the medium or high level and the buttons are not pressed for about 15 seconds, the backlight returns to the low level to save power.
- When the meter returns to the low level, pressing any button restores the previous backlight level.
- For more information about backlight settings, see Chapter 5, Changing Meter Settings.
- For more about power-saving tips, see Chapter 8, Maintenance.

Key Lock

- The key lock feature allows you to lock all of the buttons on the meter, except for the power on/off button.
- The key lock serves as a safety measure against unintentional activation of meter functions.
- For more information, see Chapter 5, Changing Meter Settings.

Signal Settings

- The meter communicates reminders, warnings, and errors using sounds and vibrations.
- For more information, see Chapter 6, Icons, Reminders, Warnings, and Errors.

Blood Glucose Test

Your new meter allows you to enter detailed information for each blood glucose test to include:

- Meal time (Pre meal, Post meal, Bedtime, or other)
- Carbs (the amount of carbohydrates you are intending to eat)
- Health events (Exercise 1, Exercise 2, Stress, Illness, Premenstrual, or Fasting)

If bolus advice is set up on the meter and the meter recently communicated with the pump, the amount of active insulin is displayed on the detailed bG Result screen.

Bolus Advice (Optional)

- The term “bolus” refers to the delivery of insulin all at once rather than slowly throughout the day, usually used to compensate for meals or high blood glucose.
- Bolus advice calculates a bolus for you that is adapted to the time of day and your changing situations.
- This function is activated only if you set up bolus advice on the meter.
- For instructions on how to set up bolus advice, see Chapter 5, Changing Meter Settings.

WARNING

Before setting up bolus advice, it is very important to read all of the safety information in the Advanced Owner’s Booklet and talk to your healthcare professional.

Using the Meter with the Pump

- The meter can communicate with and remotely control your pump.
- Pump information is automatically downloaded to the meter when *Bluetooth* wireless technology is activated.
- The meter must be paired with the pump.
- For more information, see the Advanced Owner’s Booklet.

Administering a Bolus

Using your new meter, you can deliver a bolus:

- Remotely on your pump using *Bluetooth* wireless technology
- Using the bolus advice feature on the meter
- Independently on your pump
- Using an insulin pen or syringe

My Data

- Your new meter stores 1,000 records in the diary.
- You can view, modify, or add information to your diary.
- You can view blood glucose test averages, trends, standard day, standard week, and target tables and graphs of the data in the diary.
- You can view the data in graph or table format for the last 7, 14, 30, 60, or 90 days.
- For more information, see Chapter 4, *Managing Your Data*.

Data Transfer

- You can transfer your data stored on the meter to a computer.
- For more information, see Chapter 4, Managing Your Data.

Warning Limits for Hyper and Hypo Blood Glucose Levels

- You can select hyper (high) and hypo (low) blood glucose limits that best fit your needs. Whenever a blood glucose test result is above or below this range, the meter displays a warning.
- In addition, Trend Graph screens indicate the hypo warning limit when displaying your blood glucose test results. For more information, see Chapter 4, Managing Your Data.
- The meter has default warning limits that can be adjusted. For more information, see Chapter 5, Changing Meter Settings.

Time Blocks

- Time blocks allow you to divide a day into different time periods.
- Setting time blocks to fit your own schedule helps you and your healthcare professional see how patterns in your blood glucose are affected by your daily activities and lifestyle.
- Time blocks can be set up with or without bolus advice.
- Talk to your healthcare professional about the best way to set up your time blocks to assist you in managing your diabetes.
- The meter has 5 default time blocks.
- You may set up to 8 time blocks.
- For more information, see Chapter 5, Changing Meter Settings.

Without bolus advice, you need to consider the following when setting up time blocks:

- Determine the appropriate time range by reviewing the end time for each time block.
- Review the acceptable blood glucose target range (low and high) for each time block.

With bolus advice, you need to consider the following when setting up time blocks:

- Determine the appropriate time range by reviewing the end time for each time block.
- Review the acceptable blood glucose target range (low and high) for each time block.
- Determine your carb ratio (the amount of insulin needed to cover a given amount of carbohydrates) for each time block.
- Determine your insulin sensitivity (the amount of insulin needed to lower your blood glucose by a given amount) for each time block.

Health Events

Health events can be selected to indicate how you are feeling or what you are doing that might affect your diabetes. The meter allows you the option of setting a percentage for each health event, except for Fasting, if you set up bolus advice. Fasting does not scale bolus advice calculations and is not adjustable.

Health events available on the meter are:

- Exercise 1
- Exercise 2
- Stress
- Illness
- Premenstrual
- Fasting

Discuss the appropriate percentage for each health event with your healthcare professional. For instructions on how to set up bolus advice, see Chapter 5, Changing Meter Settings.

Blood Glucose Test Reminders (Optional)

The meter can be set up to remind you to retest your blood glucose after a high blood glucose test result, after a low blood glucose test result, or after a meal.

An after high blood glucose test reminder example:

- The meter is set up with a high bG threshold level of 240 mg/dL and with a reminder time of 60 minutes.
- You have a blood glucose test result higher than 240 mg/dL, perhaps 270 mg/dL.
- In 60 minutes, the meter reminds you to perform another blood glucose test.

The after meal bG test reminder is set up with a carb value and occurs when the carb value exceeds the snack size. Any of these blood glucose test reminders can be turned on or off individually, as needed. For more information, see Chapter 5, Changing Meter Settings.

Alarm Clock Reminders

- The meter has alarm clock reminders which can be used as a helpful way to remind you when to test throughout the day.
- In addition to “bG Test,” you can set reminders for “Other” for any other daily reminder.
- You can set up to eight reminders per day.
- For more information, see Chapter 5, Changing Meter Settings.

Date Reminders

- The meter can be set up to remind you of upcoming appointments or dates, such as a “Dr. Visit,” a “Lab Test,” or an “Infusion Set Change.”
- For more information, see Chapter 5, Changing Meter Settings.

1.5 Screen Content and Navigation

This section provides an explanation of how to understand and navigate the screens on the meter.



Each time the meter is turned on, this splash screen (ACCU-CHEK logo screen) is displayed for a short period of time.

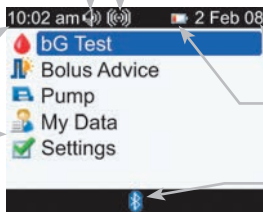
Features on the Main Menu:

Sound Icon

Appears when the beeper is turned on

Time

Menu Options



Vibrate Icon

Appears when vibrate is turned on

Date

Low Battery Icon

Appears when the meter batteries are low

Bluetooth Wireless Technology Icon



Indicates whether the *Bluetooth* wireless technology is on, off, or connecting

NOTE

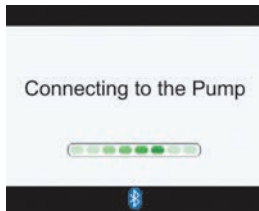
- To select an item on a menu, press \blacktriangle or \blacktriangledown to highlight (blue) the menu item and then press \odot .
- When using the meter to remotely control your pump, the buttons of your meter have differing functions. For more information, see the Advanced Owner's Booklet.

Bluetooth Wireless Technology Icon Communication States

You may turn *Bluetooth* wireless technology on or off at any time using the meter.

Icon	Communication State
	<i>Bluetooth</i> wireless technology is on. The meter and pump are communicating.
	<i>Bluetooth</i> wireless technology is off. The meter and pump are not communicating.
	<i>Bluetooth</i> wireless technology is on. However, the meter and pump are not communicating.

Connecting to the Pump screen during pairing:



This screen appears when *Bluetooth* wireless technology is on and the meter is connecting to the pump.

Features on a screen:


Title Bar

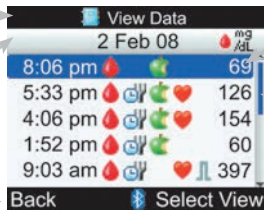
Primary menu title is displayed here

Secondary Title Bar

When necessary, a secondary title bar appears. Secondary menu text is displayed here

Left Soft Key Option

Press  to select the option above the button on the screen




Highlighted Option

When a menu choice or item is selected, it is highlighted in blue







Scroll Bar

If there is more information available than fits on the screen, a vertical scroll bar appears on the right side of the screen

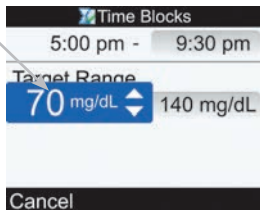
Right Soft Key Option

Press  to select the option above the button on the screen

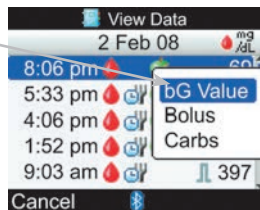
Information can be entered on some screens. Numerical entry fields appear as pop-up entry fields. When an option must be selected, it appears as a pop-up menu.

- To open a pop-up menu or entry field, press .
- Press  or  to select the appropriate pop-up menu option or until the correct numerical entry is present, and then press .
- Press and hold  or  to scroll faster.

Pop-Up Entry Field



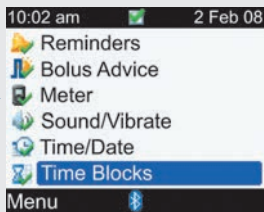
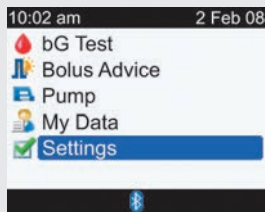
Pop-Up Menu



General Navigation Steps

To change the settings or enter information into the meter:

1.



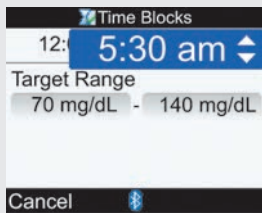
- ▶ Press \triangle or ∇ to select a menu option and press \bigcirc .
- ▶ Repeat the previous step as necessary.

2.



- ▶ Press \triangle or ∇ or \triangleleft or \triangleright to select an option or a desired entry field and press \odot .

3.



- ▶ Press \triangle or ∇ to select the desired entry and press \odot .
- ▶ Repeat Steps 2 and 3, as necessary.

4.

- ▶ Select Save by pressing \odot to save changes and return to the previous screen.

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2.1 Overview

It is important to understand how to perform a blood glucose test properly.

NOTE

Blood glucose and bG are interchangeable and mean the same thing.

2.2 Using the Accu-Chek Aviva Combo System

Before You Start Testing

Using Accu-Chek Aviva Plus Test Strips

- Only use Accu-Chek Aviva Plus test strips.
- Store the unused test strips in their original container. Do not remove test strips from the test strip container and put them into another container, such as a plastic bag, pocket, purse, wallet, etc.
- Immediately after you take out a test strip, securely close the container. This helps keep the test strips dry.
- Use the test strip immediately after you take it out of the container.
- Be sure to check the “Use By” date on the test strip container. Do not use the test strips after that date.
- If the “Use By” date is missing or cannot be read, do not use the test strips.
- Do not refrigerate, freeze, or expose strips to heat, moisture or humidity. Temperatures outside the required range, as well as moisture and humidity, can damage your test strips and lead to inaccurate results.
- Refer to the test strip package insert for system operating conditions.
- Do not apply blood or control solution to the test strip before you insert it into the meter. If the meter gives you a result before applying blood or control solution, do not act on that result.
- Do not reuse test strips. Once you have put control solution or blood on a test strip, throw it away. If you need to retest, use a new test strip.

WARNING

Not following the precautions below can lead to inaccurate results:

- Do not store test strips in extreme temperatures or moisture areas (bathroom, kitchen, laundry room, car, or garage). Heat and moisture can damage your test strips.
- Do not bend, cut, or alter the test strips.
- Do not get dirt, food, or other material on the test strips.

2.3 Performing a Blood Glucose Test

Before you perform your first blood test, ensure the meter is set up correctly and that you perform a control test. You need a meter with a pre-inserted black code key, a test strip, a lancing device, and a lancet.

WARNING

- During normal testing any blood glucose meter or lancing device may come in contact with blood. All parts of the kit are considered biohazardous and can potentially transmit infectious diseases from bloodborne pathogens, even after you have performed cleaning and disinfection.^{1,2}
- Cleaning and disinfecting the meter and lancing device destroys most, but not necessarily all, bloodborne pathogens.³
- The meter and lancing device should never be used by more than one person. Do not share the meter and lancing device with anyone, including family members, due to the risk of infection from bloodborne pathogens.^{1,2}
- If the meter is being operated by a second person who is providing testing assistance to the user, the meter and lancing device should be cleaned and disinfected prior to use by the second person.
- Disinfect the meter and lancing device before allowing anyone else to handle them. Do not allow anyone else to test with the meter or lancing device.
- It is important to keep the meter and lancing device clean and disinfected. For instructions on how to clean and disinfect the meter and lancing device, see Chapter 7, Cleaning and Disinfecting the Meter and Lancing Device.
- Wash hands thoroughly before and after handling the meter, lancing device, or test strips.

^{1,2,3} See Appendix E

WARNING

- Do not change your treatment because of one blood glucose test result.
- NEVER ignore symptoms of high or low blood glucose.
- If your blood glucose test result does not match how you feel, perform a fingertip test to confirm your result. If the fingertip test result still does not match how you feel, contact your healthcare professional.

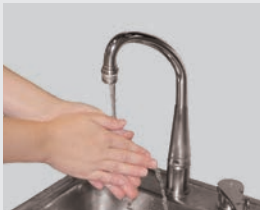
NOTE

If you need to perform a control test, only use Accu-Chek Aviva control solutions. See Chapter 3, Control Testing for more information about control testing.

Performing a Fingertip Blood Glucose Test

Prepare > Check the Use By Date > Insert Test Strip > Test Blood Sample > bG Test Result

1.



- ▶ Wash and dry your hands.
- ▶ Prepare the lancing device for a fingertip test.
- ▶ Always use a new lancet with each test.

2.



- ▶ Check the Use By date on the test strip container. Do not use test strips past the Use By date.

3.



- ▶ Insert the test strip into the meter in the direction of the arrow. The meter turns on.

4.



The Apply Sample screen appears. The test strip is ready for testing.

5.



Fingerstick:

- ▶ Perform a fingerstick with the lancing device.

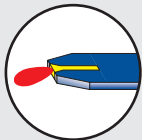
6.



Fingerstick:

- ▶ Gently squeeze your finger to assist the flow of blood. This helps you get a blood drop.

7.



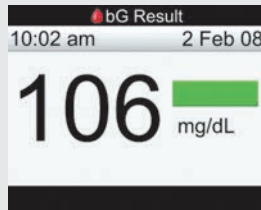
- ▶ Touch the blood drop to the **front edge** of the yellow window of the test strip. Do not put blood on top of the test strip.

8.



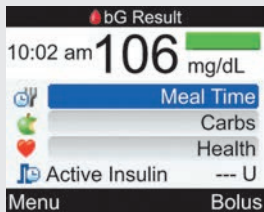
When the test strip has enough blood, the Analyzing screen appears.

9.



The result appears on the display.

10.



Approximately 3 seconds later, the detailed bG Result screen appears.



- ▶ Remove and discard the used test strip.

NOTE

- If the blood drop is too small, reapply pressure to get a sufficient blood drop.
- For more information regarding blood glucose test results, see Section 2.5, Understanding Blood Glucose Test Results.
- To add detailed information to the blood glucose test (meal time, carbs, and health events) see Section 2.4, Detailed Blood Glucose Test Results.
- If a test strip error occurs, remove and discard the used test strip and repeat the test with a new test strip.
- Be careful not to put any fluids into the test strip slot.
- The meter cannot be turned off when the following screens are displayed:
 - Match Code to Vial
 - Apply Sample
 - Analyzing
 - bG Result
- When a test strip is in the meter, the buttons are inactive. The buttons become active when you remove the test strip or when the test is complete.
- The meter turns off automatically in approximately 2 minutes if no buttons are pressed.

NOTE

Other ways to start a blood glucose test:

- From the Main Menu, select bG Test and press . Insert a test strip into the meter.
- When a reminder notification or the key lock icon is displayed, insert a test strip into the meter.
- From the Main Menu, select Bolus Advice and press . If “bG Test” is displayed instead of an actual blood glucose value, then you can start a blood glucose test by selecting bG Test. If an actual blood glucose value is displayed, then you cannot start a blood glucose test using this process.

2.4 Detailed Blood Glucose Test Results

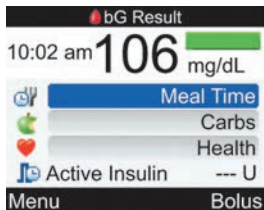
The detailed bG Result screen displays the following information:

The screenshot shows a mobile application interface for blood glucose results. At the top is a black status bar with a red dot and the text 'bG Result'. Below this, the time '10:02 am' is displayed. The main display features a large green bar with the number '106' and the unit 'mg/dL' to its right. Below the main display is a list of items: 'Meal Time' (with a clock icon), 'Carbs' (with an apple icon), 'Health' (with a heart icon), and 'Active Insulin' (with a blue 'I' icon). At the bottom are two buttons: 'Menu' and 'Bolus'. Arrows point from text labels on the left and right to these specific elements.

Test Time	10:02 am	Status Bar
Meal Time	106	Blood Glucose Test Result
Carbohydrates	mg/dL	Unit of Measure
Health Event	Meal Time	
Active Insulin	Carbs	
	Health	
	Active Insulin	--- U
	Menu	Bolus

Displayed only if bolus advice is activated and data has recently been read from the pump



Detailed bG Results > Change Meal Time/Carbs/Health Events (Optional)





The detailed bG Result screen allows you to view and to add information to a blood glucose test result.

How to Add Information to a Blood Glucose Test Result



To Change Meal Time:

- ▶ Select the Meal Time entry field and press .
- ▶ Select either Pre Meal, Post Meal, Bedtime, or Other and press .

To Change Carbs:

- ▶ Select the Carbs entry field and press .
- ▶ Set the number of carbs and press .

To Change Health Events:

- ▶ Select the Health entry field and press .
- ▶ Select either Exercise 1, Exercise 2, Stress, Illness, Premenstrual, or Fasting and press .

Active Insulin Display:

The meter displays the calculated amount of Active Insulin.

To save the changes and exit the detailed bG Result screen:

- ▶ To return to the Main Menu, select Menu.
- ▶ To proceed to the Bolus Advice screen, select Bolus.

Bolus Advice is not available if:

- ▶ The blood glucose test result is below the hypo warning limit.
- ▶ The detailed bG Result screen has been displayed for more than 5 minutes. The warning message “Bolus Advice Timeout” is displayed. Select OK to return to the detailed bG Result screen.

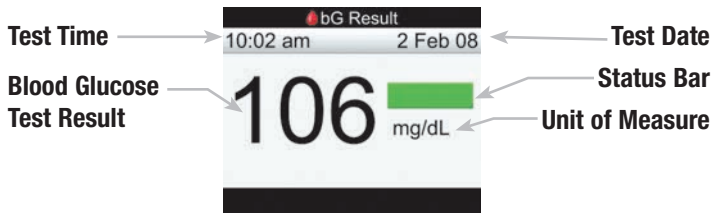
For more information about bolus advice, see the Advanced Owner's Booklet.

NOTE

- You can add information on the detailed bG Result screen for meal time, carbs, and health events.
- Review and, if necessary, update information for meal time, carbs, and health events to receive an accurate bolus recommendation.
- Active insulin is bolus insulin that has been given to lower your blood glucose, but has not yet been fully used.
- Active insulin appears only if bolus advice is activated.
- Calculation of the amount of the active insulin is completed automatically by the meter. If necessary, the meter rounds the active insulin amount.
- If the active insulin amount is calculated as zero, then the value is displayed as 0.
- If active insulin data is not found, then active insulin value is displayed as “---U.”
- If Bolus is selected, then the Connecting to the Pump screen appears before the Bolus Advice screen is displayed.

2.5 Understanding Blood Glucose Test Results

The bG Result screen displays the following information:

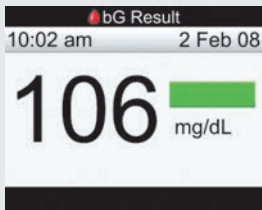


NOTE

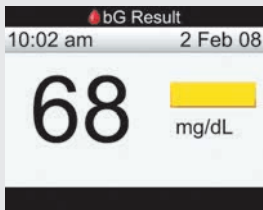
- If the dosed test strip is removed from the meter before results or errors are displayed, a blood glucose test result will not appear.
- After approximately 3 seconds, the meter displays the detailed bG Result screen (see Section 2.4, Detailed Blood Glucose Test Results).

Status Bar

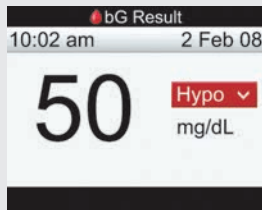
The status bar on the bG Result screen indicates how the result compares to the target blood glucose range for the current time block. The following are status bar descriptions with sample displays:



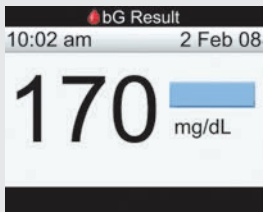
Green indicates the result is within the target range for the current time block.



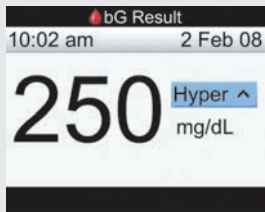
Yellow indicates the result is below the target range for the current time block. The result is not below the hypo warning limit.



Red with "Hypo" indicates the result is below the hypo warning limit.

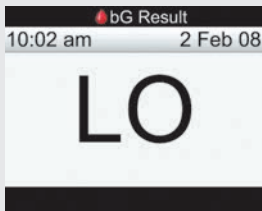


Light blue indicates the result is above the target range for the current time block. The result is not above the hyper warning limit.



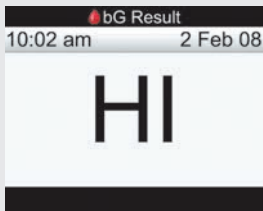
Light blue with "Hyper" indicates the result is above the hyper warning limit.

LO or HI Display



If “LO” is displayed, the test result may be below the measurement range.

- ▶ Contact your healthcare professional.



If “HI” is displayed, the test result may be above the measurement range.

- ▶ Contact your healthcare professional.

NOTE

Blood Glucose Warnings

If the blood glucose test results are outside the hyper or hypo warning limits, or outside the measurement range of the meter, then a warning is displayed after the bG Test Result screen. Select OK to acknowledge a warning and continue.

2.6 Unusual Blood Glucose Test Results

If your blood glucose test result does not match the way you feel, follow these steps:

Troubleshooting Checks	Actions
1. Are the test strips expired?	Discard the test strips if they are past the “Use By” date. Repeat the blood glucose test with an unexpired test strip.
2. Has the cap on the test strip container always been closed tightly?	Replace the test strips if you think the test strip container was uncapped for some time and repeat the blood glucose test.
3. Was the test strip used immediately after it was removed from the test strip container?	Repeat the blood glucose test with a new test strip.
4. Were the test strips stored in a cool, dry place?	Repeat the blood glucose test with a properly stored test strip.
5. Did you follow the directions?	Read Chapter 2, Testing Your Blood Glucose, and repeat the blood glucose test. If you still have problems, contact Accu-Chek Customer Care Service Center at 1-800-688-4578.

Troubleshooting Checks	Actions
6. Are the meter and test strips working properly?	Perform a control test. See Chapter 3, Control Testing.
7. Are you still unsure of the problem?	Contact Accu-Chek Customer Care Service Center at 1-800-688-4578.

After performing a control test and repeating a blood glucose test, if your blood glucose test results still do not match the way you feel, contact your healthcare professional immediately.

2.7 Symptoms of High or Low Blood Glucose

Being aware of the symptoms of high or low blood glucose can help you understand your test results and decide what to do if they seem unusual. These symptoms may include, but are not limited to:

- High blood glucose (hyperglycemia): increased thirst, frequent urination, blurred vision, drowsiness, and/or unexplained weight loss.
- Low blood glucose (hypoglycemia): anxiety, shakiness, sweating, headache, increased hunger, dizziness, pale skin color, sudden change in mood or irritability, fatigue, difficulty concentrating, clumsiness, palpitations, and/or confusion.

WARNING

- If you are experiencing any of these symptoms, test your blood glucose. If your blood glucose test result is displayed as LO or HI, contact your healthcare professional immediately.
- **The meter is designed to display blood glucose results from 20 to 600 mg/dL. If a result below 20 mg/dL or over 600 mg/dL appears on the display, call Accu-Chek Customer Care Service Center at 1-800-688-4578.**

Comparing Your Meter Result to a Lab Result

A common question is how the blood glucose results on your meter compare to the lab results. Your blood glucose can change quickly, especially after eating, taking medication, or physical activity. If you test yourself in the morning and then go to the healthcare professional's office for a blood glucose test, your results will probably not match, even if you are fasting. This is typically not a problem with your meter, it just means that time has elapsed and your blood glucose has changed.

If you want to compare your meter result to the lab result, you must be fasting. Take your meter to the healthcare professional's office, and test yourself by fingerstick within five minutes of having blood drawn from your arm by a healthcare professional. Keep in mind that the lab uses different technology than the meter, and that blood glucose meters for self testing generally read somewhat lower than the lab result.

If you are fasting and you do a fingerstick test within five minutes of having your blood drawn, here are the general guidelines to compare your meter result to the lab result:

- If your blood glucose is below 75 mg/dL, your results generally should fall within ± 15 mg/dL of the lab result.
- If your blood glucose is equal to or over 75 mg/dL, your results generally should fall within ± 20 % of the lab result.

3 Control Testing

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3.5 Understanding Control Test Results	73

3.1 Overview

This chapter describes how and when to perform a control test to ensure the accuracy of your blood glucose meter. It is recommended you complete a control test prior to performing a blood glucose test for the first time.

NOTE

Blood glucose and bG are interchangeable and mean the same thing.

3.2 Why Perform Control Tests

Performing a control test lets you know the meter and test strips are working properly to give reliable blood glucose test results. You should perform a control test when:

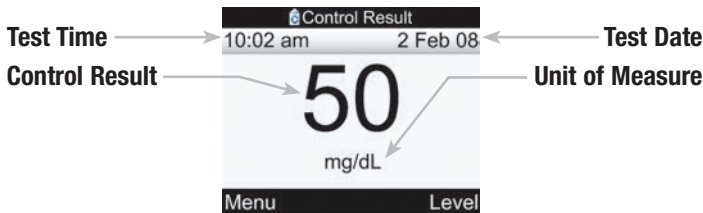
- You open a new test strip box.
- You want to check the meter and test strips.
- Your test strips were stored in extreme temperatures, humidity, or both.
- You dropped the meter.
- Your test result does not match how you feel.
- You want to check if you are performing the test correctly.

3.3 About the Control Solutions

- Only use Accu-Chek Aviva control solutions.
- The meter automatically recognizes the control solution.
- The control test results are not displayed in the diary.
- Write the date you opened the control solution bottle on the bottle label. The solution is good for 3 months from that date or until the “Use By” date on the bottle label, whichever comes first.
- Do not use control solution that is past the “Use By” date.
- The solution can stain clothing. If you spill it, wash your clothes with soap and water.
- Close the bottle tightly after use.

3.4 Performing a Control Test

The Control Result screen displays the following information:



You need a meter with a pre-inserted black code key, a test strip, and control solution Level 1, Level 2, or both. The control level is printed on the bottle label.

Check the Use By Date > Insert Test Strip > Test Control Solution > Control Result

1.



- ▶ Check the Use By date on the test strip container. Do not use test strips past the Use By date.

2.



- ▶ Insert the test strip into the meter in the direction of the arrow. The meter turns on.

3.



- ▶ The Apply Sample screen appears. The test strip is ready for testing.

4.



- ▶ Select the control solution to test. You will enter the level later in the test.

5.



- ▶ Place the meter on a flat surface, like a table.

6.



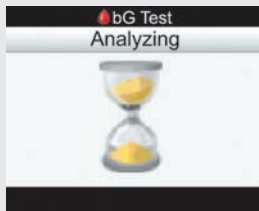
- ▶ Remove the control bottle cap. Wipe the tip of the bottle with a tissue.

7.



- ▶ Squeeze the bottle until a tiny drop forms at the tip.
- ▶ Touch the drop to the **front edge** of the yellow window of the test strip. Do not put control solution on top of the test strip.

8.



When the test strip has enough control solution, the Analyzing screen appears.

- ▶ Wipe the tip of the bottle with a tissue and then cap the bottle tightly.

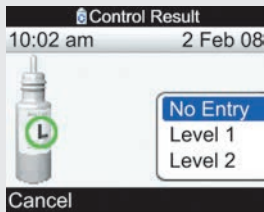
9.



The control result appears on the display.

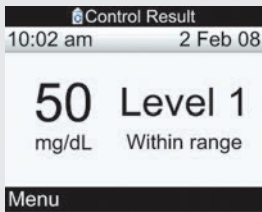
- ▶ Select Level to display the control solution level pop-up menu.

10.



- ▶ Select the control solution level and press .

11.



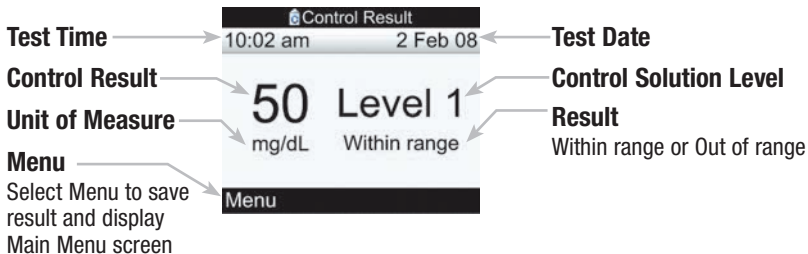
- ▶ Remove and discard the test strip.
- ▶ For information on understanding control test results, proceed to the next section, or select Menu to save this result and display the Main Menu screen.

NOTE

- If a test strip error occurs, remove and discard the used test strip and repeat the test with a new test strip.
- Be careful not to put any fluids into the test strip slot.
- When the Control Level screen is displayed and you select Cancel without selecting a control solution level, then No Entry is chosen. The meter stores the control test result along with No Entry and then the Detailed Control Result screen is displayed.
- When the Control Level screen is displayed and you turn off the meter, or if the meter auto-powers off, without selecting a control solution level, then No Entry is chosen. The meter stores the control test result along with No Entry.
- **Other ways to start a control test:**
 - From the Main Menu, select bG Test. Insert a test strip into the meter.
 - When a reminder notification or the key lock icon is displayed, insert a test strip into the meter.

3.5 Understanding Control Test Results

The detailed Control Result screen displays the following information:

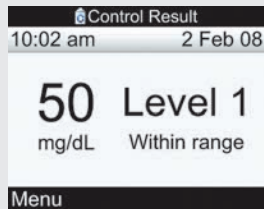




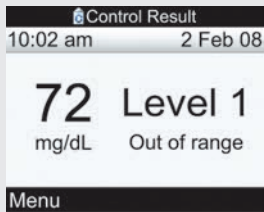
- ▶ The label on your test strip container shows the acceptable ranges for both the Level 1 and the Level 2 control solutions. The test result you get should be inside this range. Ensure you select and compare the test result to the correct level of control. For the level selected, the meter displays whether the result is within or outside of the acceptable range.

- ▶ When the control test result is inside the range on the test strip container, the test strips and the meter are working properly.

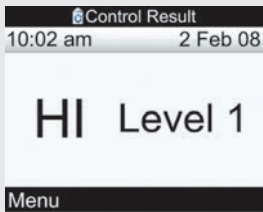
Example Control Results



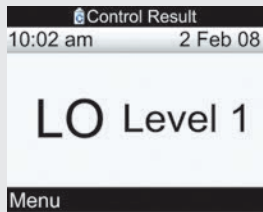
If the control test result is within the acceptable range, “Within range” appears on the detailed Control Result screen.



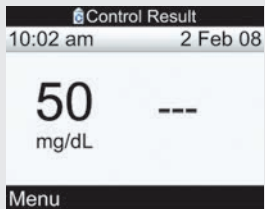
If the control test result is outside of the acceptable range, “Out of range” appears on the detailed Control Result screen.



If “HI” is displayed, the control test result may be above the measurement range.



If “LO” is displayed, the control test result may be below the measurement range.



If the meter stored No Entry for the control solution level, then “---” appears with no indication of in or out of range.

Out-of-Range Control Test Results

If the control test result is out of range, check this list to help solve the problem:

Troubleshooting Checks	Actions
1. Were either the test strips or control solutions expired?	Discard the test strips or control solutions if either is past the “Use By” date. If the control solution was opened more than 3 months ago, discard it. Repeat the control test with an unexpired test strip and an unexpired control solution.
2. Did you wipe the tip of the control solution bottle before use?	Wipe the tip of the bottle with a tissue. Repeat the control test with a new test strip and a fresh drop of control solution.
3. Were the caps on the test strip container and the control solution bottle always closed tightly?	Replace the test strips or control solutions if you think either was uncapped for some time and repeat the control test.
4. Was the test strip used immediately after it was removed from the test strip container?	Repeat the control test with a new test strip and a fresh drop of control solution.
5. Were the test strips and control solutions stored in a cool, dry place?	Repeat the control test with a properly stored test strip and control solution.

Troubleshooting Checks	Actions
6. Did you follow the directions?	Read Chapter 3, Control Testing, and repeat the control test. If you still have problems, contact Accu-Chek Customer Care Service Center at 1-800-688-4578.
7. Did you choose the correct control solution level, either 1 or 2, when you performed the control test?	If you chose the wrong control solution level, you can still compare the control result to the range printed on the test strip container.
8. Are you still unsure of the problem?	Contact Accu-Chek Customer Care Service Center at 1-800-688-4578.

4 Managing Your Data

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4.1 Overview

Analyzing your blood glucose test results stored in the meter is an effective way for you and your healthcare professional to determine how well you are controlling your diabetes. This analysis is a valuable tool for making improvements to your diabetes management. The reports the meter displays help you get the most from your Accu-Chek Aviva Combo meter.

From the diary records stored in the meter, you are able to view a specific blood glucose test record with its attributes (e.g., meal time, carbs, health event, and bolus). In addition, for a specific diary record, you are able to change or add to its attributes.

The meter generates reports, such as blood glucose averages with standard deviations for the time period you select (e.g., the past 7 days or the past 30 days). Graphs can be a good way to view your blood glucose test results. The meter can display a line graph to depict blood glucose record trends, a graph showing result ranges for a standard day or a standard week, and a pie chart with different colors to illustrate the amount of test results within, above, or below your blood glucose target range.

NOTE

- You must be the only user of the meter, because the diary data will be incorrect if the meter is shared.
- Blood glucose and bG are interchangeable and mean the same thing.

Storing Test Results

The meter automatically stores up to 1,000 diary records with the time and date. You can review up to 250 diary records on the meter or up to 1,000 diary records using a computer with compatible software. Diary records are stored from the newest to the oldest. It is very important to have the correct time and date set. Having the correct time and date setting helps ensure accurate interpretation of blood glucose test results by you and your healthcare professional.

Each diary record can contain:

- Date and time
- Blood glucose test result
- Meal time (events)
- Carbs
- Health event
- Bolus type
- Bolus amount

You can display filtered diary data in graphical or table format.

NOTE

- **Do not change your therapy based on one individual record or test result in the diary.**
- This chapter shows sample screens. The screens may look slightly different from the screens on the meter. If you have any questions about the meter screens, contact Accu-Chek Customer Care Service Center at 1-800-688-4578.
- The information in the diary is saved when you replace the batteries. You need to check the time and date after you replace the batteries. For more information on changing the batteries, see Chapter 8, Maintenance.
- Once 1,000 records are in the diary memory, adding a new record causes the oldest diary record to be deleted.
- The control results are stored in memory, but cannot be reviewed on the meter.
- Before reviewing diary records or control results with software, the stored diary records must first be downloaded to a compatible software application. For product availability, please contact Accu-Chek Customer Care Service Center at 1-800-688-4578.
- Control results are not used in any report or graph.

4.2 Viewing or Modifying Your Data

The View Data screen displays the following information:

The screenshot shows a 'View Data' screen with a list of records. The records are as follows:

Date of Record(s)	Time of Blood Glucose Test	Blood Glucose Test Icon	Meal Time Icon	Appropriate Bolus Icon	Health Event Icon	Unit of Measure	Blood Glucose Test Result
2 Feb 08	8:06 pm	Red drop icon	Green apple icon	Blue insulin icon	Red heart icon	mg/dL	69
	5:33 pm	Red drop icon	Green apple icon	Blue insulin icon	Red heart icon		126
	4:06 pm	Red drop icon	Green apple icon	Blue insulin icon	Red heart icon		154
	1:52 pm	Red drop icon	Green apple icon	Blue insulin icon	Red heart icon		60
	9:03 am	Red drop icon	Green apple icon	Blue insulin icon	Red heart icon		397










Labels and their corresponding elements in the screenshot:




- Date of Record(s)**: Points to the date '2 Feb 08'.
- Time of Blood Glucose Test**: Points to the time '8:06 pm'.
- Blood Glucose Test Icon**: Points to the red drop icon.
- Meal Time Icon**: Points to the green apple icon.
- Appropriate Bolus Icon**: Points to the blue insulin icon.
- Health Event Icon**: Points to the red heart icon.
- Unit of Measure**: Points to 'mg/dL'.
- Blood Glucose Test Result**: Points to the numerical value '69'.
- Select View**: Points to the 'Select View' button at the bottom right.
- Carbs Icon**: Points to the green apple icon.

NOTE

- If data are not available, the No Data Available screen is displayed.
- The View Data screen displays the records in the order in which they occurred with the most recent record shown on top.
- For the blood glucose test result:
 - “HI” is displayed if the test result is above the measurement range.
 - “LO” is displayed if the test result is below the measurement range.
 - The blood glucose test result is blank if a blood glucose test value does not exist.

Icon descriptions:

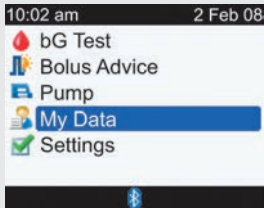
Icon	Icon Name	Description
	bG Test	Icon is displayed when information exists for this diary record regarding a blood glucose test.
	Meal Time	Icon is displayed when information exists for this diary record regarding meal time.
	Carbs	Icon is displayed when information exists for this diary record regarding carbs.
	Health Event	Icon is displayed when information exists for this diary record regarding health events.
	Standard Bolus Not Confirmed	Delivery has not been confirmed by the pump.
	Standard Bolus Confirmed	Delivery has been confirmed by the pump.
	Multiwave Bolus Not Confirmed	Delivery has not been confirmed by the pump.
	Multiwave Bolus Confirmed	Delivery has been confirmed by the pump.
	Extended Bolus Not Confirmed	Delivery has not been confirmed by the pump.

Icon	Icon Name	Description
	Extended Bolus Confirmed	Delivery has been confirmed by the pump.
	Manual Pump	Delivery has not been confirmed by the pump.
	Pen/Syringe Bolus	Pump does not deliver bolus.

You can view a diary record with its attributes (blood glucose value, meal time, carbs, health event, and bolus).

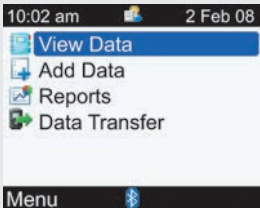
Main Menu > My Data > View Data

1.



- ▶ From the Main Menu, select My Data and press .

2.



- ▶ Select View Data and press .

3.

Blood Glucose View:

View Data		mg/dL
2 Feb 08		
8:06 pm		69
5:33 pm		126
4:06 pm		154
1:52 pm		60
9:03 am		397

Back Select View

Bolus View:

View Data		IU
2 Feb 08		
8:06 pm		
5:33 pm		
4:06 pm		
1:52 pm		
9:03 am		5

Back Select View

Carbs View:

View Data		g
2 Feb 08		
8:06 pm		60
5:33 pm		60
4:06 pm		20
1:52 pm		60
9:03 am		

Back Select View

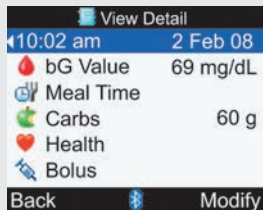
Shown above are View Data screens that display values for blood glucose, bolus, or carbs.

To choose another view, press (a pop-up menu appears). Select the view you want and press .

Press or to view other records (the screen scrolls if there are additional records).

To view or modify a record's details, select the record and press .

4.



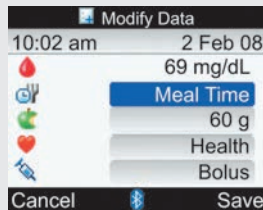
- ▶ Press ◀ to view the previous record or press ▶ to view the next (newer) record.

To return to the previous screen, select Back.

or

To modify a diary record, select Modify and continue to the next step.

5.



- ▶ Select the entry field to modify and press .
- ▶ Make the change in the entry field and press .
- ▶ Modify other fields, as needed.

To save the changes and return to the View Detail screen, select Save.

NOTE

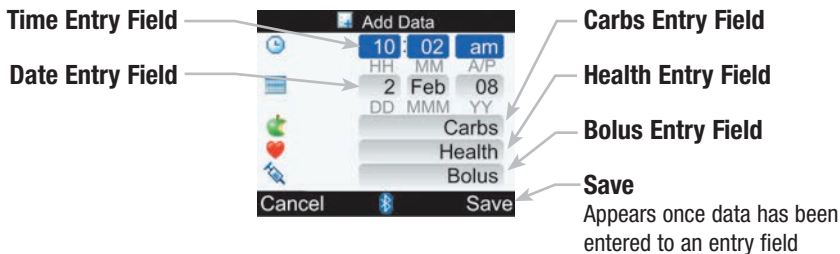
To cancel changes or return to the View Detail screen, select Cancel.

The following fields cannot be modified with the specified condition:

Fields	Cannot be modified if the ...
Bolus	Bolus type is confirmed standard, extended, or multiwave
Bolus	Blood glucose test result was below the hypo warning limit
Meal Time	Record has no blood glucose value
Meal Time, Carbs, Health Event, and Bolus	Record has been used for bolus advice

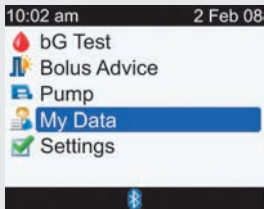
4.3 Adding New Data

You can add data to a diary record for carbs, health, and bolus. The Add Data screen displays the following information:



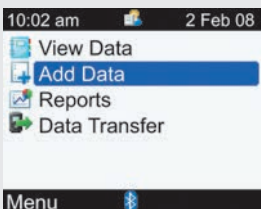
Main Menu > My Data > Add Data

1.



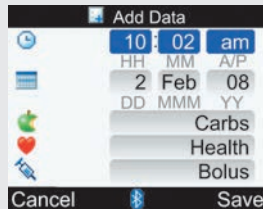
- ▶ From the Main Menu, select My Data and press .

2.



- ▶ Select Add Data and press .

3.




- ▶ Select an entry field and press .
- ▶ Make addition in the entry field and press .

- ▶ Make additions to other entry fields, as needed.

To save the changes and return to the My Data screen, select Save.

NOTE

- The meter initially displays the current date and the current time. You can change the date and time when adding a diary record, although the date and time cannot be set in the future.
- Before a diary record can be saved, data must be entered (not including date and time). “Save” is not displayed above  until data has been entered.
- To cancel changes and return to the My Data screen, select Cancel.

4.4 Reporting Your Data

Time Range		Last 7 days		
Meal Times		mg/dL	SD	tests
Overall		163	82	37
Pre Meal		136	67	13
Post Meal		202	125	5
Bedtime		55		1
Other		175	50	2
Back		Bluetooth		

Blood Glucose Standard Deviation
Calculated for the time range

Number of Tests
Used to calculate the averages and standard deviations

Blood Glucose Average
Calculated for the time range

NOTE

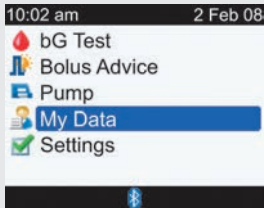
- If data are not available to calculate averages, the No Data Available screen is displayed.
- Standard deviation measures how much the blood glucose test results are scattered around the blood glucose average. A low standard deviation means the blood glucose test results are tightly clustered around the blood glucose average; a high standard deviation means the blood glucose test results are widely scattered around the blood glucose average.
- Calculations do not include corrupt results, control results, or HI and LO results.

Reporting Your Blood Glucose Averages

The meter displays your blood glucose averages and standard deviations for the time range you choose (7, 14, 30, 60, or 90 days).

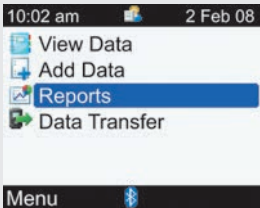
Main Menu > My Data > Reports > bG Averages

1.



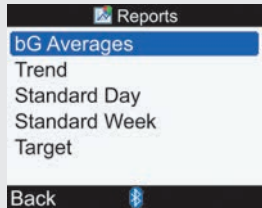
- ▶ From the Main Menu, select My Data and press .

2.





- ▶ Select Reports and press .

3.



- ▶ Select bG Averages and press .

4.

Last 7 days			
	 mg/dL	SD	Tests
Overall	163	82	37
Pre Meal	136	67	13
Post Meal	202	125	5
Bedtime	55		1
Other	175	50	2
Back 			

The blood glucose averages are displayed.

- ▶ To display blood glucose averages for another time range (last 7, 14, 30, 60, or 90 days), press either ◀ or ▶ to scroll the screen until you reach the time range you need.

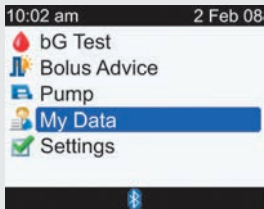
To return to the Reports screen, select Back.

Reporting Your Data Trends

The meter displays your blood glucose record trends for the time range you choose (last 8 hours, 24 hours, 48 hours, or 7 days).

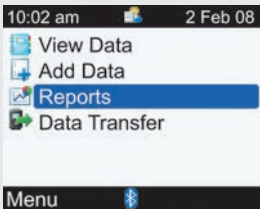
Main Menu > My Data > Reports > Trend

1.



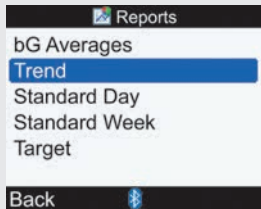
- ▶ From the Main Menu, select My Data and press .

2.



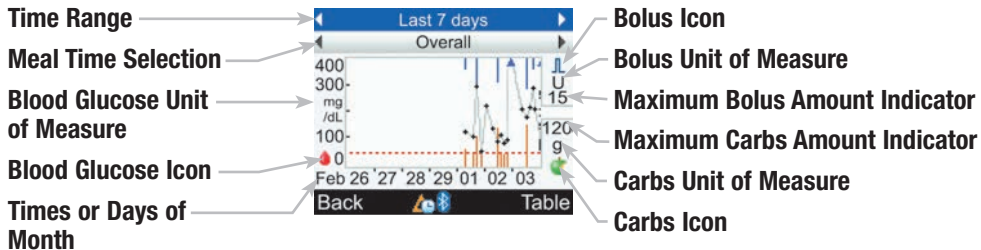
- ▶ Select Reports and press .

3.



- ▶ Select Trend and press .

Trend Graph Screen



Arrow

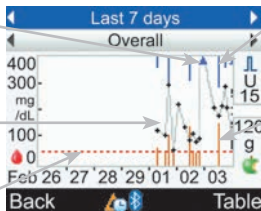
Indicates blood glucose data extends beyond screen

Each Blood Glucose Value

Connected with lines

Warning Limit Hypo Level

Red horizontal line




Time Change Icon

Only shown when meter time has been changed for this data

Follow these tips to get the most value from My Data reports:

- If you delivered a bolus directly on the pump, go to My Data on the meter to receive the bolus information automatically. Do this before your next blood glucose test.
- Replace the batteries when the Low Battery icon appears. This maintains the communication between meter and pump.

NOTE

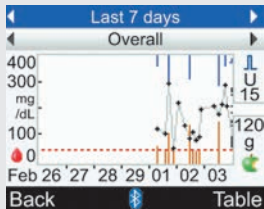
- If data are not available to display the trend graph, the No Data Available screen is displayed.
- Trend graphs do not include corrupt results or control results.
- If  (time change icon) is shown at the bottom of the Trend Graph screen, the time and date of one or more data points in the trend graph may not match the time stamp in My Data because the meter clock has been changed. All times in the trend graph show the data relative to the current meter time.

For example:

1. You take a bG test and the value is stored in the meter at 9:00 am.
 2. The meter time is changed ahead 1 hour.
 3. The bG data on the trend graph is shown at 10:00 am.
- Trend graph data is cleared if bolus advice data is cleared.
 - On the right side of the graph, the Maximum Bolus Amount Indicator is a horizontal line with the corresponding value shown above it. The purpose of this indicator is to scale the top portion of the graph for the Bolus Value blue bars. The Maximum Bolus Amount Indicator values available on the meter are 1, 5, 15, 30, and 60 U. The indicator displayed is based on the single largest bolus insulin amount delivered for the time range chosen. For example, if the largest bolus delivered during the chosen time range is 8 U, then the meter will scale the upper graph to be between 0 and 15 U.
 - On the right side of the graph, the Maximum Carbs Amount Indicator is a horizontal line with the corresponding value shown below it. The purpose of this indicator is to scale the bottom portion of the graph for the Carb Value dark orange bars. The Maximum Carbs Amount Indicator values available on the meter are 30, 60, 120, 180, and 240 g, or the equivalent scale for BE, KE, or CC. The indicator displayed is based on the single largest carbs amount for the time range chosen. For example, if the largest carbs amount for the chosen time range is 86 g, then the meter will scale the lower graph to be between 0 and 120 g.
 - Select Table to change the display to the Table View. The time range remains the same.
 - The displayed insulin only includes bolus values.

Trend Graph

1.




- ▶ To display a trend graph for another time range (last 8 hours, 24 hours, 48 hours, or 7 days), press \blacktriangle to highlight the time range selection field (top of screen). Press either \blacktriangleleft or \blacktriangleright until you reach the time range you need.

2.

- ▶ To display a trend graph for another meal time selection (Overall, Pre Meal, Post Meal, Bedtime, or Other), press either \blacktriangle or \blacktriangledown to highlight the meal time selection field (immediately below the time range which is at the top of the screen). Press either \blacktriangleleft or \blacktriangleright until you reach the meal time selection you need.

3.

- ▶ Press  to display the Table (proceed to the next section for more information).

To return to the Reports screen, select Back.

NOTE

The meter saves the current settings (time range, meal time, and graph view) when you select Back or when the meter powers off.

Trend Table Screen

Time Range

← Last 8 hours →

Meal Time Selection

Overall

Date of Records

2 Feb 08

Blood Glucose Icon with Blood Glucose Unit of Measure

8:06 pm 69 66

Time Change Icon

Only shown when meter time has been changed for this data

5:33 pm 126 60

4:06 pm 154 20


1:52 pm 60 60

Back  Bluetooth  Graph

Carbs Icon with Carbs Unit of Measure

Bolus Icon with the Bolus Unit of Measure

NOTE

- If data are not available to display the trend table, the No Data Available screen is displayed.
- Trend tables do not include corrupt results or control results.
- If  (time change icon) is shown at the bottom of the Trend Table screen, the time and date of one or more data points in the trend table may not match the time stamp in My Data because the meter clock has been changed. All times in the trend table show the data relative to the current meter time. For example:
 1. You take a bG test and the value is stored in the meter at 9:00 am.
 2. The meter time is changed ahead 1 hour.
 3. The bG data on the trend table is shown at 10:00 am.
- Trend table data is cleared if bolus advice data is cleared.
- For a given record, if the blood glucose value, carb value, or bolus value is empty, the corresponding field is blank.
- The most recent record is displayed first.

Trend Table

1.

Last 8 hours			
Overall			
	mg /dL	g	U
2 Feb 08			
8:06 pm	69	66	
5:33 pm	126	60	
4:06 pm	154	20	
1:52 pm	60	60	

- ▶ When there are multiple records, press \blacktriangle or \blacktriangledown to view other records.


2.

- ▶ To display a trend table for another time range (last 8 hours, 24 hours, 48 hours, or 7 days), press \blacktriangle to highlight the time range selection field (top of screen). Press either \blacktriangleleft or \blacktriangleright until you reach the time range you need.

3.

- ▶ To display a trend table for another meal time selection (Overall, Pre Meal, Post Meal, Bedtime, or Other), press either \blacktriangle or \blacktriangledown to highlight the meal time selection field (immediately below the time range which is at the top of the screen). Press either \blacktriangleleft or \blacktriangleright until you reach the meal time selection you need.

4.

- ▶ Press  to display the Graph (see previous section for more information).

To return to the Reports screen, select Back.

NOTE

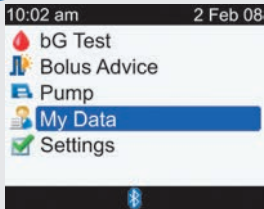
The meter saves the current settings (time range, meal time, and table view) when you select Back or when the meter powers off.

Reporting Your Standard Day

The meter displays (for a standard day) your blood glucose averages, number of tests, and standard deviations within predetermined time blocks for the time range you choose (last 7, 14, 30, 60, or 90 days).

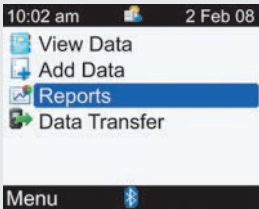
Main Menu > My Data > Reports > Standard Day

1.



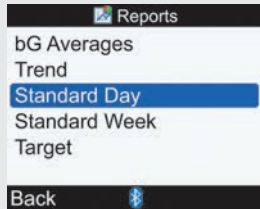
- ▶ From the Main Menu, select My Data and press .

2.



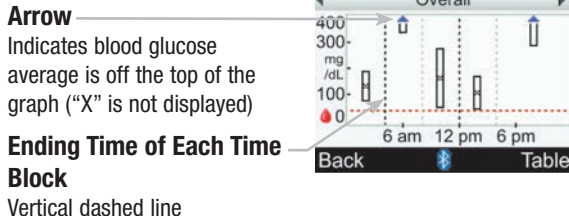
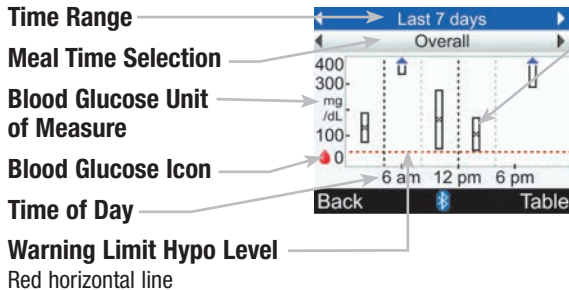
- ▶ Select Reports and press .

3.



- ▶ Select Standard Day and press .

Standard Day Graph Screen



Box for Each Time Block

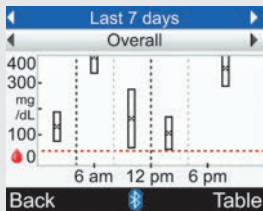
- "X" in center of box indicates the average of all blood glucose test results for the selected criteria.
- The top of the box indicates 1 standard deviation above the average and the bottom of the box indicates 1 standard deviation below the average. The box is not displayed if there are not enough data to determine standard deviation.
- The top of box is open if the standard deviation is off the top of the graph.
- Box and "X" are not displayed for a time block if no data are found.

NOTE

- If data are not available to display the standard day graph, the No Data Available screen is displayed.
- The standard day graph does not include corrupt results, control results, HI values, or LO values.

Standard Day Graph

1.




- ▶ To display a standard day graph for another time range (last 7, 14, 30, 60, or 90 days), press ▲ to highlight the time range selection field (top of screen). Press either ◀ or ▶ until you reach the time range you need.

2.

- ▶ To display a standard day graph for another meal time selection (Overall, Pre Meal, Post Meal, Bedtime, or Other), press either ▲ or ▼ to highlight the meal time selection field (immediately below the time range which is at the top of the screen). Press either ◀ or ▶ until you reach the meal time selection you need.

3.

- ▶ Press  to display the Table (proceed to the next section for more information).

To return to the Reports screen, select Back.

NOTE

The meter saves the current settings (time range, meal time, and graph view) when you select Back or when the meter powers off.

Standard Day Table Screen

Time Range

Meal Time Selection


Time Block

Blood Glucose Average

Standard Deviation (SD)

Number of Tests

	mg/dL	SD	Tests
Overall	156	67	3
12:00 - 4:00	144	48	4
4:00 - 8:00	199	144	4
8:00 - 12:00	134	74	9

Back  Graph

NOTE

- If data are not available to display the standard day table, the No Data Available screen is displayed.
- Standard day table calculations do not include corrupt results, control results, or HI and LO results.
- For a standard deviation to be displayed for a given time block, there must have been two or more tests recorded during the time block.

Standard Day Table

1.

	mg/dL	SD	Tests
12:00 - 4:00	156	67	3
4:00 - 8:00	144	48	4
8:00 - 12:00	199	144	4
12:00 - 4:00	134	74	9

- ▶ Press ▲ or ▼ to scroll screen.


2.

- ▶ To display a standard day table for another time range (last 7, 14, 30, 60, or 90 days), press ▲ to highlight the time range selection field (top of screen). Press either ◀ or ▶ until you reach the time range you need.

3.

- ▶ To display a standard day table for another meal time selection (Overall, Pre Meal, Post Meal, Bedtime, or Other), press either ▲ or ▼ to highlight the meal time selection field (immediately below the time range which is at the top of the screen). Press either ◀ or ▶ until you reach the meal time selection you need.

4.

- ▶ Press  to display the Graph (see previous section for more information).

To return to the Reports screen, select Back.

NOTE

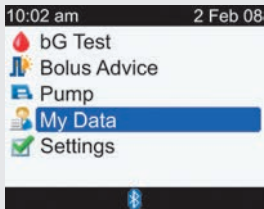
The meter saves the current settings (time range, meal time, and table view) when you select Back or when the meter powers off.

Reporting Your Standard Week

The meter displays (for a standard week) your blood glucose averages, number of tests, and standard deviations for each day of the week for the time range you choose (last 7, 14, 30, 60, or 90 days).

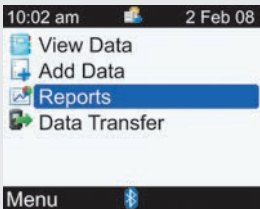
Main Menu > My Data > Reports > Standard Week

1.



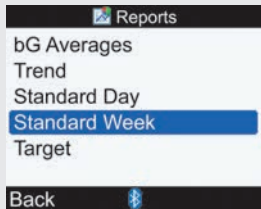
- ▶ From the Main Menu, select My Data and press .

2.



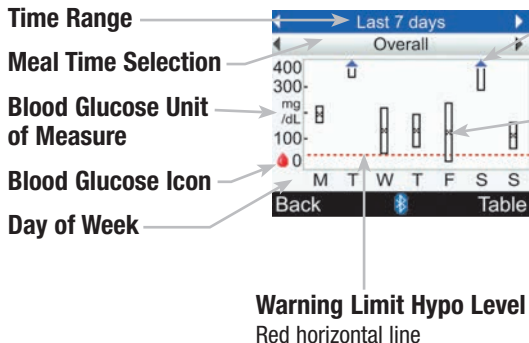
- ▶ Select Reports and press .

3.



- ▶ Select Standard Week and press .

Standard Week Graph Screen



Arrow

Indicates blood glucose average is off the top of the graph ("X" is not displayed)

Box for Each Time Block

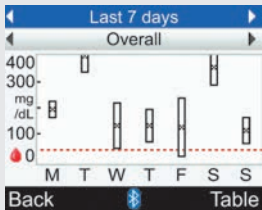
- "X" in center of box indicates the average of all blood glucose test results for the selected criteria.
- The top of the box indicates 1 standard deviation above the average and the bottom of the box indicates 1 standard deviation below the average. The box is not displayed if there are not enough data to determine standard deviation.
- The top of box is open if the standard deviation is off the top of the graph.
- Box and "X" are not displayed for a day if no data are found.

NOTE

- If data are not available to display the standard week graph, the No Data Available screen is displayed.
- The standard week graph does not include corrupt results, control results, HI values, or LO values.

Standard Week Graph

1.




- ▶ To display a standard week graph for another time range (last 7, 14, 30, 60, or 90 days), press \blacktriangle to highlight the time range selection field (top of screen). Press either \blacktriangleleft or \blacktriangleright until you reach the time range you need.

2.

- ▶ To display a standard week graph for another meal time selection (Overall, Pre Meal, Post Meal, Bedtime, or Other), press either \blacktriangle or \blacktriangledown to highlight the meal time selection field (immediately below the time range which is at the top of the screen). Press either \blacktriangleleft or \blacktriangleright until you reach the meal time selection you need.

3.

- ▶ Press  to display the Table (proceed to the next section for more information).

To return to the Reports screen, select Back.

NOTE

The meter saves the current settings (time range, meal time, and graph view) when you select Back or when the meter powers off.

Standard Week Table Screen

The screenshot shows a mobile application interface for a standard week table. At the top, there are two horizontal scrollable menus: 'Last 7 days' and 'Overall'. Below these is a table with columns for 'mg/dL', 'SD', and 'Tests'. The rows represent the days of the week from Monday to Thursday. At the bottom, there are two buttons: 'Back' and 'Graph'.

	mg/dL	SD	Tests
Monday	223	39	5
Tuesday	180	71	5
Wednesday	156	99	5
Thursday	159	73	5

NOTE

- If data are not available to display the standard week table, the No Data Available screen is displayed.
- Standard week table calculations do not include corrupt results, control results, or HI and LO results.
- For a standard deviation to be displayed for a given day of the week, there must have been two or more tests recorded during the day.

Standard Week Table

1.

Last 7 days			
Overall			
	mg /dL	SD	Tests
Monday	223	39	5
Tuesday	180	71	5
Wednesday	156	99	5
Thursday	159	73	5

Back Graph

- ▶ Press ▲ or ▼ to scroll screen.


2.

- ▶ To display a standard week table for another time range (last 7, 14, 30, 60, or 90 days), select the time range selection field (top of screen). Press either ◀ or ▶ until you reach the time range you need.

3.

- ▶ To display a standard week graph for another meal time selection (Overall, Pre Meal, Post Meal, Bedtime, or Other), press either ▲ or ▼ to highlight the meal time selection field (immediately below the time range which is at the top of the screen). Press either ◀ or ▶ until you reach the meal time selection you need.

4.

- ▶ Press  to display the Graph (see previous section for more information).

To return to the Reports screen, select Back.

NOTE

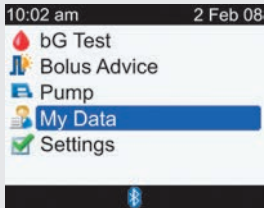
The meter saves the current settings (time range, meal time, and table view) when you select Back or when the meter powers off.

Reporting Your Target

The meter displays a pie chart illustrating your blood glucose records as “Above,” “Within,” “Below,” and “Hypo” for the time range you choose (last 7, 14, 30, 60, or 90 days).

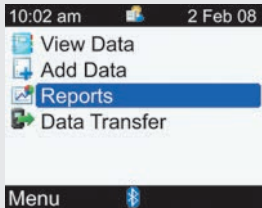
Main Menu > My Data > Reports > Target

1.



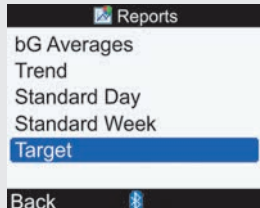
- ▶ From the Main Menu, select My Data and press .

2.



- ▶ Select Reports and press .

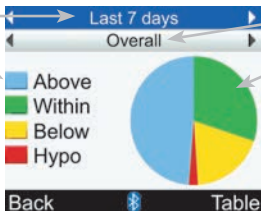
3.



- ▶ Select Target and press .

Target Graph Screen

Time Range



Legend

Blood glucose test result categories

Meal Time Selection

Pie Chart

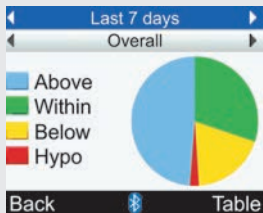
Represents the percentages for the blood glucose test result categories

NOTE

- If data are not available to display the target graph, the No Data Available screen is displayed.
- The target graph does not include corrupt results, control results, or HI and LO results.

Target Graph

1.




- ▶ To display a target graph for another time range (last 7, 14, 30, 60, or 90 days), select the time range selection field (top of screen). Press either ◀ or ▶ until you reach the time range you need.

2.

- ▶ To display a target graph for another meal time selection (Overall, Pre Meal, Post Meal, Bedtime, or Other), press either ▲ or ▼ to highlight the meal time selection field (immediately below the time range which is at the top of the screen). Press either ◀ or ▶ until you reach the meal time selection you need.

3.

- ▶ Press  to display the Table (proceed to the next section for more information).

To return to the Reports screen, select Back.

NOTE

The meter saves the current settings (time range, meal time, and graph view) when you select Back or when the meter powers off.

Target Table Screen

Time Range

← Last 7 days →

Meal Time Selection

← Overall →

Legend

Blood glucose test result categories

Blue	Above	48%
Green	Within	32%
Yellow	Below	18%
Red	Hypo	2%

Back  Graph

Percentage of Occurrence

NOTE

- If results or data are not available for the selected time period and meal time, the No Data Available screen is displayed.
- The target table does not include corrupt results, control results, or HI and LO results.

Target Table

1.


Category	Percentage
Above	48%
Within	32%
Below	18%
Hypo	2%

- ▶ To display a target table for another time range (last 7, 14, 30, 60, or 90 days), select the time range selection field (top of screen). Press either ◀ or ▶ until you reach the time range you need.

2.

- ▶ To display a target table for another meal time selection (Overall, Pre Meal, Post Meal, Bedtime, or Other), press either ▲ or ▼ to highlight the meal time selection field (immediately below the time range which is at the top of the screen). Press either ◀ or ▶ until you reach the meal time selection you need.

3.

- ▶ Press  to display the Target Graph (see previous section for more information).

To return to the Reports screen, select Back.

NOTE

The meter saves the current settings (time range, meal time, and table view) when you select Back or when the meter powers off.

4.5 Downloading Your Data to a Computer

You can transfer your stored results to a computer to track, identify patterns, and print.

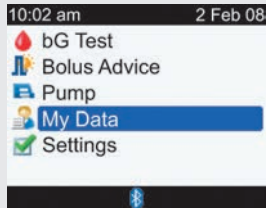
1.


- ▶ Install the software according to the instructions.
- ▶ Connect the computer cable according to the instructions.

2.

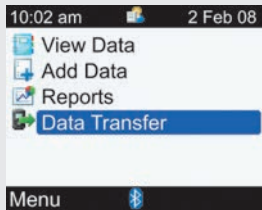
- ▶ Run the software program and follow the instructions about how to download information. Ensure the software is ready to accept data from the meter.


3.



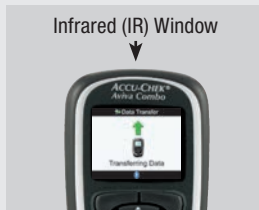
- ▶ From the Main Menu, select My Data and press .

4.



- ▶ Select Data Transfer and press .

5.



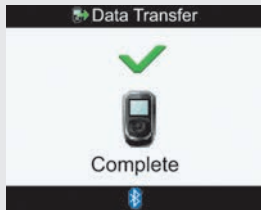
- ▶ Locate the infrared (IR) window on the top of the meter.
- ▶ Locate the IR window on the computer's infrared cable.
- ▶ Point the two IR windows toward each other. They should be 1 to 4 inches apart.

6.



- ▶ Follow the prompts on your computer software to start the data transfer.

7.



Once the data transfer is complete, the Data Transfer Complete screen is displayed for 3 seconds and then the meter turns off.

NOTE

If the data did not transfer successfully, turn off the meter, turn the meter back on, and try again. If you still have problems, contact Accu-Chek Customer Care Service Center at 1-800-688-4578.

5 Changing Meter Settings

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5.1 Overview

You have the flexibility to change the Accu-Chek Aviva Combo meter settings that you initially selected during the Setup Wizard process. You can make adjustments to the meter settings in order to meet changing conditions. Consult with your healthcare professional to ensure the appropriate settings are selected.

Settings: Important Information



- When editing a setting, any unsaved changes are discarded if the meter turns off or if a test strip is inserted into the meter.
- It is important to ensure that the time and date are correctly set in order to create accurate diary records.
- If you change the pump time and date, the meter time and date will automatically synchronize to match the pump.

NOTE

Blood glucose and bG are interchangeable and mean the same thing.

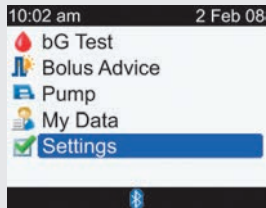
5.2 Setting bG Test Reminders: After High bG, After Low bG, After Meal

bG Test Reminders: Important Information

- At the scheduled time, the meter turns on and displays the reminder (if a test strip has not been inserted). However, if the meter is already on when the reminder is scheduled and no blood glucose test was performed, the reminder is displayed when the meter powers down.
 - Dismiss the reminder by pressing .
 - Reschedule (snooze) the reminder by pressing . The snooze time for After High bG is 15 minutes. The snooze time for After Low bG and After Meal is 5 minutes.
 - If not dismissed or snoozed, the reminder is displayed a total of four times at intervals of 2 minutes, after which the meter dismisses the reminder.
- When you perform a blood glucose test, the meter dismisses any bG test reminders which are pending within the next 30 minutes. If necessary, a new reminder is scheduled based upon the blood glucose test result.
- For more information, see Chapter 6, Icons, Reminders, Warnings, and Errors.

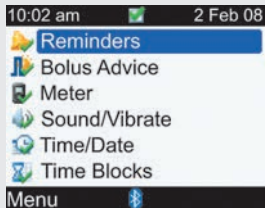
Main Menu > Settings > Reminders > bG Test Reminders

1.



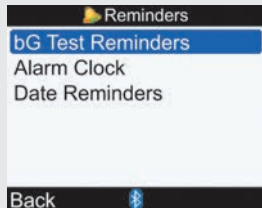
- ▶ From the Main Menu, select Settings and press .

2.



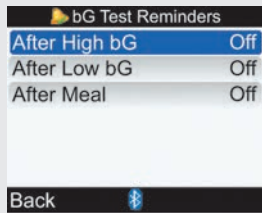
- ▶ Select Reminders and press .

3.



- ▶ Select bG Test Reminders and press .

4.



- ▶ Select either After High bG, After Low bG, or After Meal and press .
- ▶ Proceed to either After High bG, After Low bG, or After Meal in this step.



To Turn the After High bG Reminder On or Off:

- ▶ Select the Reminder entry field and press .
- ▶ Select On or Off and press .

To Change the bG Threshold:

- ▶ Select the bG Threshold entry field and press .
- ▶ Set the bG Threshold level and press .

To Change the Remind After Time:

- ▶ Select the Remind After entry field and press .
- ▶ Set the amount of time after a high blood glucose test result you want to be reminded to retest your blood glucose and press .

To save the changes and return to the bG Test Reminders screen, select Save.



To Turn the After Low bG Reminder On or Off:

- ▶ Select the Reminder entry field and press .
- ▶ Select On or Off and press .

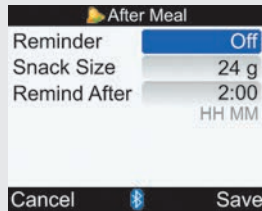
To Change the bG Threshold:

- ▶ Select the bG Threshold entry field and press .
- ▶ Set the bG Threshold level and press .

To Change the Remind After Time:

- ▶ Select the Remind After entry field and press .
- ▶ Set the amount of time after a low blood glucose test result you want to be reminded to retest your blood glucose and press .

To save the changes and return to the bG Test Reminders screen, select Save.



To Turn the After Meal Reminder On or Off:


- ▶ Select the Reminder entry field and press .
- ▶ Select On or Off and press .

To Change the Snack Size:

- ▶ Select the Snack Size entry field and press .
- ▶ Set the Snack Size amount and press .

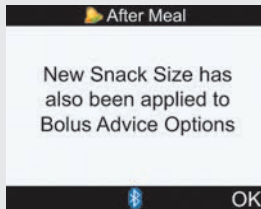
To Change the Remind After Time:

- ▶ Select the Remind After entry field and press .

- ▶ Set the amount of time after a meal (carb entry larger than the snack size) you want to be reminded to retest your blood glucose and press .

To save the changes, select Save.

If you did not change the Snack Size, the meter returns to the bG Test Reminders screen.



If you changed the Snack Size, the After Meal screen is displayed.

- ▶ Select OK to return to the bG Test Reminders screen.





NOTE

- Remind After is displayed as “HH:MM” (e.g., 1:30) where “H” is hour and “M” is minute.
- When the meter is displaying the Remind After Meal screen for the first time, if bolus advice has not been set up, the default for Snack Size is no entry (“--g”). If bolus advice has been set up, the default value is the value set for the Snack Size on the Advice Options screen.
- To cancel changes or to return to the previous screen, select Cancel.

5.3 Setting Alarm Clock Reminders: bG Test, Other

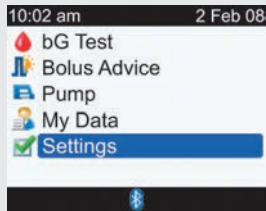
Alarm clock reminders are a helpful way to remind you to test your blood glucose, or for any other daily appointment. You can set up to eight reminders per day.

Alarm Clock Reminders: Important Information

- At the scheduled time, the meter turns on and displays the reminder (if a test strip has not been inserted). However, if the meter is already on when the reminder is scheduled (and no blood glucose test was performed for an Alarm Clock bG Test Reminder), the reminder is displayed when the meter powers down.
 - Alarm Clock bG Test: Dismiss the reminder by pressing . Reschedule (snooze) the reminder for 15 minutes by pressing .
 - Alarm Clock Other: Dismiss the reminder either by pressing  or by inserting a test strip. Reschedule (snooze) the reminder for 15 minutes by pressing .
 - If not dismissed or snoozed, the reminder is displayed a total of four times at intervals of 2 minutes, after which the meter dismisses the reminder.
- When you perform a blood glucose test, the meter dismisses Alarm Clock bG Test reminders which are pending within the next 30 minutes.
- For more information, see Chapter 6, Icons, Reminders, Warnings, and Errors.

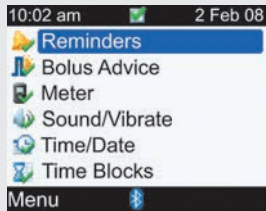
Main Menu > Settings > Reminders > Alarm Clock

1.



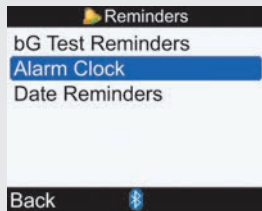
- ▶ From the Main Menu, select Settings and press .

2.



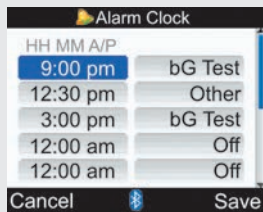
- ▶ Select Reminders and press .

3.



- ▶ Select Alarm Clock and press .

4.



To Turn On or Change a Reminder:

- ▶ Select the time entry field for a Reminder and press .
- ▶ Set the time to schedule the Reminder and press .
- ▶ Press . Select the type of Reminder (i.e., bG Test or Other) and press .
- ▶ Repeat the above steps to set additional reminders.

To Turn Off a Reminder:

- ▶ Select the type of Reminder entry field (i.e., bG Test or

Other) and press .

- ▶ Select Off and press .
- ▶ Repeat the above steps to turn off additional reminders.

To save the changes and return to the Reminders screen, select Save.


NOTE

- To cancel changes or return to the Reminders screen, select Cancel.
- Time for the Alarm Clock reminders can be set in 15-minute increments, where “HH” is hour, “MM” is minutes, and with “am” or “pm” for the 12-hour format.
- If you tested within 30 minutes of a bG Test Reminder, the reminder does not occur.
- Exposure to extreme cold conditions may disable Alarm Clock reminders until the meter is turned on.

5.4 Setting Date Reminders: Dr. Visit, Lab Test, Infusion Set Change

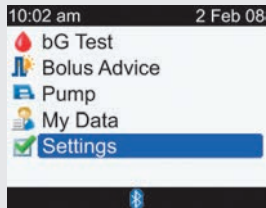
Date reminders are a helpful way to remind you of an upcoming Dr. visit or lab test. In addition, you can set up an ongoing reminder for an infusion set change for the interval you choose (1 day, 2 days, or 3 days).

Date Reminders: Important Information

- Displayed when you turn on the meter and a test strip has not been inserted.
- Dismiss the reminder either by pressing  or by inserting a test strip.
- For more information, see Chapter 6, Icons, Reminders, Warnings, and Errors.

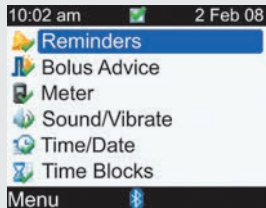
Main Menu > Settings > Reminders > Date Reminders

1.



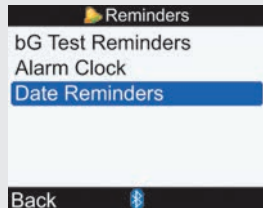
- ▶ From the Main Menu, select Settings and press .

2.



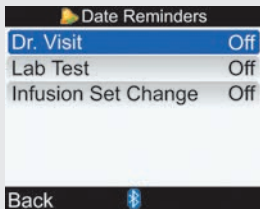
- ▶ Select Reminders and press .

3.

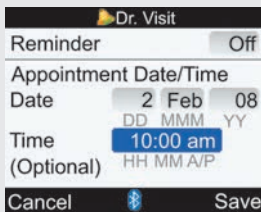


- ▶ Select Date Reminders and press .

4.



- ▶ Select either Dr. Visit, Lab Test, or Infusion Set Change and press .
- ▶ Proceed to either Dr. Visit, Lab Test, or Infusion Set Change in this step.



To Turn the Dr. Visit Reminder On or Off:

- ▶ Select the Reminder entry field and press .
- ▶ Select On or Off and press .

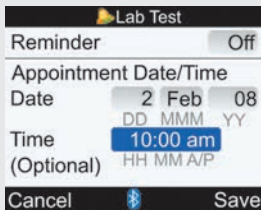
To Set the Date:

- ▶ Select the Date entry field and press .
- ▶ Set the Day and press .
- ▶ Set the Month and press .
- ▶ Set the Year and press .

To Set the Time (Optional):

- ▶ Select the Time entry field and press .
- ▶ Set the Time and press .

To save the changes and return to the Date Reminders screen, select Save.



To Turn the Lab Test Reminder On or Off:

- ▶ Select the Reminder entry field and press .
- ▶ Select On or Off and press .

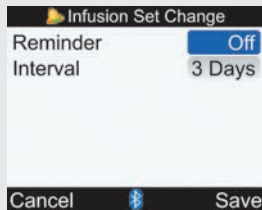
To Set the Date:

- ▶ Select the Date entry field and press .
- ▶ Set the Day and press .
- ▶ Set the Month and press .
- ▶ Set the Year and press .

To Set the Time (Optional):

- ▶ Select the Time entry field and press .
- ▶ Set the Time and press .

To save the changes and return to the Date Reminders screen, select Save.



To Turn the Infusion Set Change Reminder On or Off:

- ▶ Select the Reminder entry field and press .
- ▶ Select On or Off and press .

To Set the Interval:

- ▶ Select the Interval entry field and press .
- ▶ Select the Interval (1 day, 2 days, or 3 days) and press .

To save the changes and return to the Date Reminders screen, select Save.

NOTE

- Setting a time for a Date Reminder is optional. If you choose not to set a time, ensure the Time entry field value is "--:--" (no entry).
- To cancel changes or to return to the Date Reminders screen, select Cancel.
- Time for the Dr. Visit Reminder and the Lab Test Reminder can be set in 15-minute increments, where "HH" is hour, "MM" is minutes, and with "am" or "pm" for the 12-hour format.
- Date Reminders do not automatically turn on the meter and display the Reminder. Date Reminders only occur when you power on the meter on the appropriate date.

5.5 Setting Bolus Advice for the First Time

Set Up Bolus Advice

If you did not set up bolus advice when you went through the Setup Wizard and have now decided to utilize bolus advice, proceed with this section. Once you do set up bolus advice, you cannot turn it off.

It is suggested that you review the information in the Getting Started Guide before continuing. Prior to setting up time blocks for bolus advice, it is recommended that you decide how many time blocks you need and also determine the start/end times. Talk to your healthcare professional about arranging your time blocks to help best manage your diabetes. For each time block, you can set up different blood glucose target ranges, carb ratios, and insulin sensitivities to accommodate your differing insulin needs throughout the day.

Time Blocks–Bolus Advice Screen

The screenshot shows the 'Time Blocks' screen with the following settings and labels:

- Time Block Start Time:** 12:00 am
- Time Block End Time:** 5:30 am
- Target Range Lower Limit Value:** 70 mg/dL
- Target Range Upper Limit Value:** 140 mg/dL
- Carb Ratio–Number of Carbs:** 1 U for 10 g

Buttons at the bottom: Cancel, Bluetooth icon, Save.

scroll down

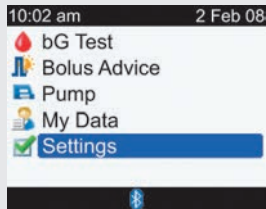
The screenshot shows the 'Time Blocks' screen after scrolling down, with the following settings and labels:

- Insulin Sensitivity–Number of Insulin Units:** 1 U for 40 mg/dL
- Target Range:** 70 mg/dL - 140 mg/dL
- Carb Ratio:** 1 U for 10 g
- Insulin Sensitivity–Change in Glucose Level:** 40 mg/dL

Buttons at the bottom: Cancel, Bluetooth icon, Save.

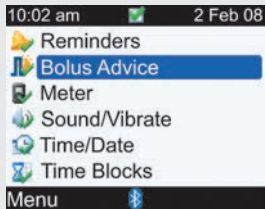
Main Menu > Settings > Bolus Advice

1.



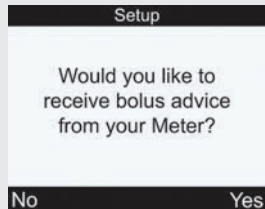
- ▶ From the Main Menu, select Settings and press .

2.



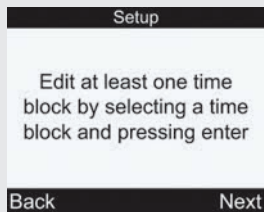
- ▶ Select Bolus Advice and press .

3.



- ▶ If you do **NOT** want to set up bolus advice, select No to return to the Settings screen.
- ▶ To set up bolus advice, select Yes and continue to the next step.

4.



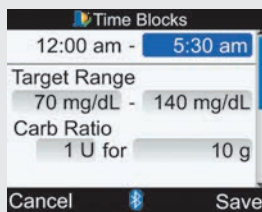
- ▶ To continue, select Next.

5.

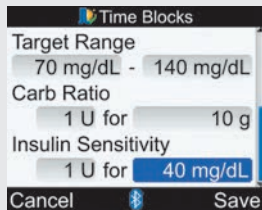


To Change Time Blocks:

- ▶ Select a time block to edit and press .



scroll down



To Change the End Time:

- ▶ Select the End Time entry field and press .
- ▶ Set the End Time and press .

To Change the Target Range:

- ▶ Select the entry field for the lower value of the Target Range and press .
- ▶ Set the value and press .
- ▶ Select the entry field for the upper value of the Target Range and press .
- ▶ Set the value and press .

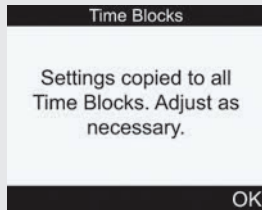
To Change the Carb Ratio:

- ▶ Select the entry field for the number of Insulin Units and press .
- ▶ Set the number of Insulin Units and press .
- ▶ Select the entry field for the amount of Carbs and press .
- ▶ Set the amount of Carbs covered by the number of Insulin Units and press .

To Change the Insulin Sensitivity:

- ▶ Select the entry field for the number of Insulin Units and press .
- ▶ Set the number of Insulin Units and press .
- ▶ Select the entry field for the Insulin Sensitivity level and press .
- ▶ Set the Insulin Sensitivity level and press .
- ▶ Select Save.


6.



- The carb ratio and insulin sensitivity are copied to all time blocks. You may edit the target range, carb ratio, and insulin sensitivity for any other time block, if necessary.
- ▶ Select OK.


7.

Time Blocks	
Start	End
12:00 am	5:30 am
5:30 am	11:00 am
11:00 am	5:00 pm
5:00 pm	9:30 pm
9:30 pm	12:00 am


Back  Next



- ▶ Return to Step 5 to change another Time Block.
- ▶ Continue in order to add or remove Time Blocks, otherwise select Next and proceed to Step 8.

To Add a Time Block:


- ▶ Select the **last** time block and press .

Time Blocks	
9:30 pm -	12:00 am
Target Range	
70 mg/dL -	140 mg/dL
Carb Ratio	
1 U for	10 g

Cancel  Save

- ▶ Select the End Time entry field and press .
- ▶ Set the End Time of the selected time block and press . This will be the start time of the added time block.
- ▶ To save the changes and return to the Time Blocks screen, select Save.
- ▶ Add another Time Block, or proceed to Step 8.

To Remove a Time Block:

- ▶ Select the Time Block you want to remove and press .

- ▶ Select the End Time entry field and press .
- ▶ Set the End Time to match the start time of the Time Block and press .
- ▶ To save the changes and return to the Time Blocks screen, select Save.
- ▶ Remove another Time Block, or proceed to Step 8.

8.

To Change the Health Events:

- ▶ Select the entry field of the Health Event to be changed and press .
- ▶ Set the percentage and press .
- ▶ Repeat the previous steps to change another Health Event.
- ▶ To continue, select Next.

9.

To Change the Meal Rise:


- ▶ Select the Meal Rise entry field and press .
- ▶ Set the Meal Rise limit and press .

To Change the Snack Size:



- ▶ Select the Snack Size entry field and press .
- ▶ Set the Snack Size amount and press .

To Change the Acting Time:

- ▶ Select the Acting Time entry field and press .

- ▶ Set the Acting Time duration and press .

To Change the Offset Time:

- ▶ Select the Offset Time entry field and press .
- ▶ Set the Offset Time duration and press .

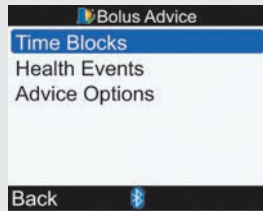
To save the changes and exit, select Save.

10.



- ▶ Select OK.

11.



- ▶ To return to the Settings screen, select Back.

Bolus Advice Options

Meal Rise, Snack Size, Acting Time, and Offset Time are Bolus Advice Options. Below are detailed descriptions of each of these settings.

Meal Rise

During or after meals, an increase in blood glucose levels is considered normal within a certain range, even though a meal bolus has been delivered. Enter the maximum increase in your blood glucose test result that is to be tolerated without an additional correction bolus.

Snack Size

The snack size is the amount of carbohydrates that is not to be counted as a regular meal with the expected meal rise. In this case (in contrast to regular meals), an increase in your blood glucose test result is not tolerated since the meal rise factor is not triggered for bolus advice calculations.

Acting Time

The acting time is the period of time from the start of the meal rise or the delivery of a correction bolus until your blood glucose level is expected to return to the target level. You can adjust the length of the acting time to your individual needs, within a specified time interval (1½ hours to 8 hours).

Offset Time

Offset time takes into account the expected delay for the blood glucose level to actually fall during the acting time of insulin in the body.

5.6 Setting Time Blocks, Health Events, Advice Options: Bolus Advice Set Up

If bolus advice has been set up, use this section for:

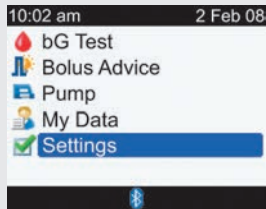
- Adding or removing time blocks
- Changing the time of day when time blocks occur
- Changing the values for target range, carb ratio, and insulin sensitivity for any time block
- Changing health event percentages
- Changing advice options (meal rise, snack size, acting time, offset time)

Before continuing, it is recommended that you review the Getting Started Guide, determine how many time blocks you need, and determine the start/end times for each time block. To help best manage your diabetes, talk to your healthcare professional about arranging your time blocks, including setting up different blood glucose target ranges, carb ratios, and insulin sensitivities for each time block.

Setting Time Blocks–Bolus Advice is Set Up

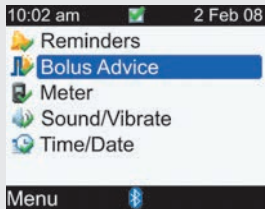
Main Menu > Settings > Bolus Advice > Time Blocks

1.



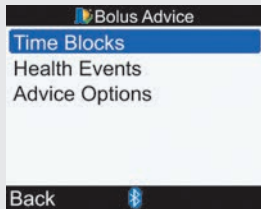
- ▶ From the Main Menu, select Settings and press .

2.



- ▶ Select Bolus Advice and press .

3.



- ▶ Select Time Blocks and press .

4.

Time Blocks	
Start	End
12:00 am	5:30 am
5:30 am	11:00 am
11:00 am	5:00 pm
5:00 pm	9:30 pm
9:30 pm	12:00 am

Back

To Add or Remove Time Blocks:

If you do not need to add or remove time blocks, then proceed to **To Change the Time Blocks**.

To Add a Time Block:

- ▶ Select the **last** time block and press

Time Blocks	
9:30 pm -	12:00 am
Target Range	
70 mg/dL -	140 mg/dL
Carb Ratio	
1 U for	10 g

Cancel Save

- ▶ Select the End Time entry field and press .
- ▶ Set the End Time of the selected Time Block and press . This will be the start time of the added time block.
- ▶ To save the changes and return to the Time Blocks screen, select Save.

- ▶ Proceed to **To Change the Time Blocks**.

To Remove a Time Block:

- ▶ Select the Time Block you want to remove and press .

Time Blocks	
12:00 am -	5:30 am
Target Range	
70 mg/dL -	140 mg/dL
Carb Ratio	
1 U for	10 g

Cancel Save

- ▶ Select the End Time entry field and press .
- ▶ Set the End Time to match the start time of the Time Block and press .

- ▶ To save the changes and return to the Time Blocks screen, select Save.
- ▶ Proceed to **To Change the Time Blocks.**

To Change the Time Blocks:

- ▶ Select a Time Block to edit and press .

5.

The screenshot shows a mobile application interface titled "Time Blocks". At the top, there is a header bar with a blue background and a white icon of a person. Below the header, the selected time block is displayed as "12:00 am - 5:30 am". Underneath, the "Target Range" is set to "70 mg/dL - 140 mg/dL", and the "Carb Ratio" is "1 U for 10 g". At the bottom of the screen, there are two buttons: "Cancel" on the left and "Save" on the right, with a small blue icon between them.

To Change the End Time:

- ▶ Select the End Time entry field and press .
- ▶ Set the End Time and press .

To Change the Target Range:


- ▶ Select the entry field for the lower value of the Target Range and press .
- ▶ Set the value and press .
- ▶ Select the entry field for the upper value of the Target Range and press .
- ▶ Set the value and press .

To Change the Carb Ratio:


- ▶ Select the entry field for the number of Insulin Units and press .
- ▶ Set the number of Insulin Units and press .
- ▶ Select the entry field for the amount of Carbs and press .
- ▶ Set the amount of Carbs covered by the selected units of insulin and press .


To Change the Insulin Sensitivity:

- ▶ Select the entry field for the number of Insulin Units and press .
- ▶ Set the number of Insulin Units and press .
- ▶ Select the entry field for the Insulin Sensitivity level and press .

- ▶ Set the Insulin Sensitivity level and press .
- ▶ Select Save.

6.

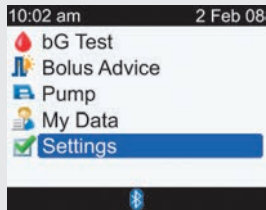
Time Blocks	
Start	End
12:00 am	5:30 am
5:30 am	11:00 am
11:00 am	5:00 pm
5:00 pm	9:30 pm
9:30 pm	12:00 am
Back 	

- ▶ To change another time block, select the time block and press . Return to Step 5.
- ▶ To return to the Bolus Advice screen, select Back.

Setting Health Events—Bolus Advice is Set Up

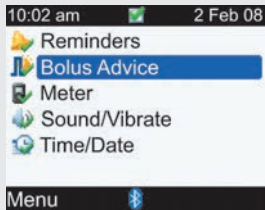
Main Menu > Settings > Bolus Advice > Health Events

1.



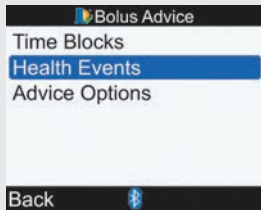
- ▶ From the Main Menu, select Settings and press .

2.



- ▶ Select Bolus Advice and press .


3.





- ▶ Select Health Events and press .

4.

Health Events	
Exercise 1	-10%
Exercise 2	-20%
Stress	0%
Illness	+20%
Premenstrual	0%

Cancel  Save

To Change the Health Events:

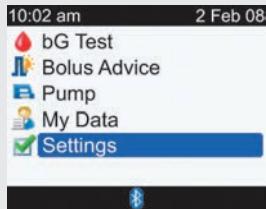
- ▶ Select the entry field of the Health Event to be changed and press .
- ▶ Set the percentage and press .
- ▶ Repeat the previous steps to change other Health Events.

To save the changes and return to the Bolus Advice screen, select Save.

Setting Bolus Advice Options–Bolus Advice is Set Up

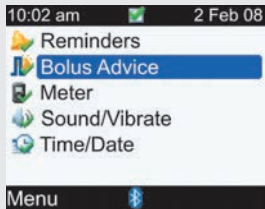
Main Menu > Settings > Bolus Advice > Advice Options

1.



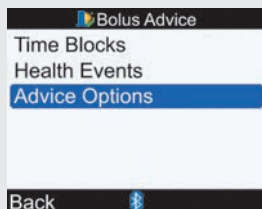
- ▶ From the Main Menu, select Settings and press .

2.



- ▶ Select Bolus Advice and press .

3.



- ▶ Select Advice Options and press .

4.

Advice Options	
Meal Rise	100 mg/dL
Snack Size	24 g
Acting Time	4:00
Offset Time	1:00 HH MM
Cancel	Save

To Change the Meal Rise:

- ▶ Select the Meal Rise entry field and press .
- ▶ Set the Meal Rise limit and press .

To Change the Snack Size:

- ▶ Select the Snack Size entry field and press .
- ▶ Set the Snack Size amount and press .

To Change the Acting Time:

- ▶ Select Acting Time entry field and press .
- ▶ Set the Acting Time duration and press .

To Change the Offset Time:

- ▶ Select the Offset Time entry field and press .
- ▶ Set the Offset Time duration and press .

To save the changes, select Save.

If you did not change the Snack Size, the meter returns to the Bolus Advice screen.

Advice Options	
New Snack Size has also been applied to After Meal Reminder	
<input type="text"/>	OK

If you changed the Snack Size, the meter displays the Advice Options screen.

- ▶ Select OK to return to the Bolus Advice screen.

5.7 Setting Warning Limits: Hyper, Hypo

You can set blood glucose warning limits for hyperglycemia (Hyper) or hypoglycemia (Hypo) conditions. Once these blood glucose limit values have been set, if your test result is above the hyper warning limit, the meter displays the Above Hyper Warning Limit message: “Consider checking for ketones, bG and insulin regularly.” If your test result is below the hypo warning limit, the meter displays the Below Hypo Warning Limit message: “Eat fast carbs of at least (number of carbs)¹ Retest bG.”

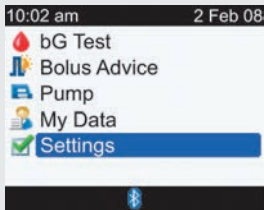
¹The meter displays a recommended amount of fast carbohydrates.


WARNING

This function is no substitute for hyperglycemia or hypoglycemia training by your healthcare professional.

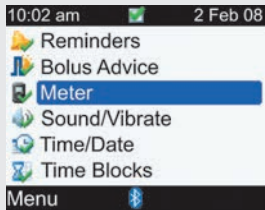
Main Menu > Settings > Meter > Warning Limits


1.



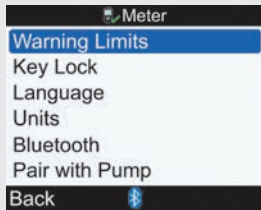
- ▶ From the Main Menu, select Settings and press .


2.



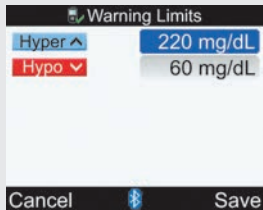
- ▶ Select Meter and press .

3.



- ▶ Select Warning Limits and press .

4.



To Change the Hyper Blood Glucose Level:

- ▶ Select the Hyper entry field and press .
- ▶ Set the Hyper (upper) blood glucose level and press .

To Change the Hypo Blood Glucose Level:

- ▶ Select the Hypo entry field and press .
- ▶ Set the Hypo (lower) blood glucose level and press .

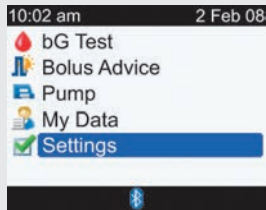
To save the changes and return to the Meter Menu screen, select **Save**.

5.8 Turning Key Lock On or Off

The key lock feature allows you to lock all of the buttons on the meter, except for the power on/off button. This serves as a safety measure against unintentional activation of meter functions.

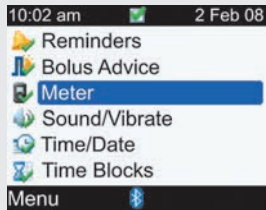
Main Menu > Settings > Meter > Key Lock

1.



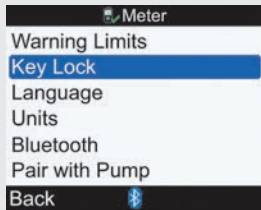
- ▶ From the Main Menu, select Settings and press .

2.



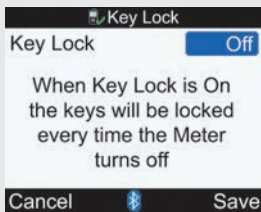
- ▶ Select Meter and press .


3.



- ▶ Select Key Lock and press .

4.





- ▶ Press  to display the Key Lock pop-up menu.
- ▶ Select On or Off.

To save the change and return to the Meter Menu screen, select Save.



If the buttons are locked when you turn on the meter, the Key Lock screen is displayed.

- ▶ To unlock the buttons, press and hold  and  at the same time until the Main Menu is displayed.

The buttons remain unlocked for the current session. When the meter is turned on again, the buttons are locked.

Key Lock: Important Information

- ▶ When the buttons are locked,

you can still turn the meter on and off. You can also adjust the backlight.

- ▶ The buttons are unlocked when:
 - A test strip is inserted into the meter
 - The meter is turned on and a pump error or a pump warning occurs

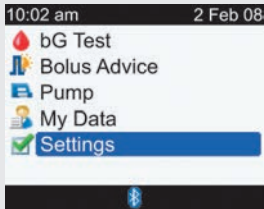
For these occurrences, the buttons remain unlocked for the current session. When the meter is turned on again, the buttons are locked.

5.9 Setting the Language

You can select a language from the predefined list.

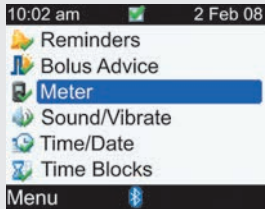
Main Menu > Settings > Meter > Language

1.



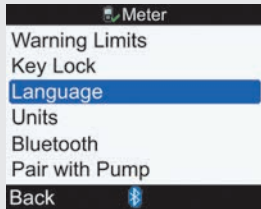
- ▶ From the Main Menu, select Settings and press .

2.



- ▶ Select Meter and press .

3.



- ▶ Select Language and press .

4.



- ▶ Press to display the Language options.
- ▶ Select the desired Language and press .

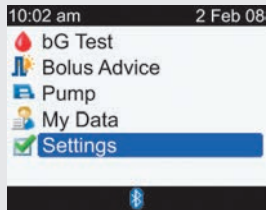
To save the change and return to the Meter Menu screen, select Save.


5.10 Setting Units: Carbs

You can set up the meter for different carbohydrate (carbs) units (Grams, BE, KE, or CC). Once the Carbs Units are set and bolus advice is activated, the Carbs Units cannot be changed.

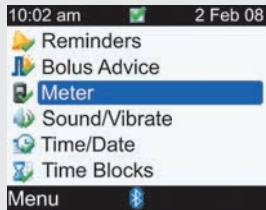
Main Menu > Settings > Meter > Units


1.



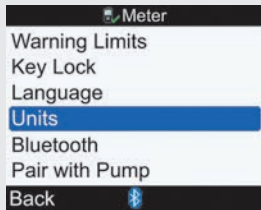
- ▶ From the Main Menu, select Settings and press .


2.



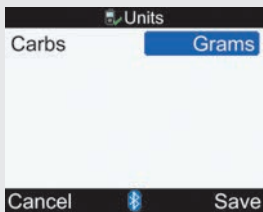
- ▶ Select Meter and press .

3.



- ▶ Select Units and press .

4.



- ▶ Press to display the list of units for carbs.
- ▶ Select the units (Grams, BE, KE, or CC) and press .

To save the change and return to the Meter Menu screen, select Save.

NOTE

Once this is set and bolus advice is activated, this unit cannot be changed. If this unit needs to be changed, contact the Accu-Chek Customer Care Service Center at 1-800-688-4578.

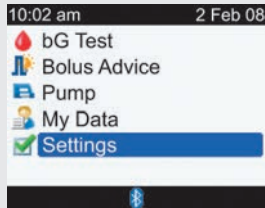
NOTE

For more information on the units for carbohydrates and carbohydrate equivalents, see Appendix B, Carb Units.

5.11 Turning *Bluetooth*[®] Wireless Technology On or Off

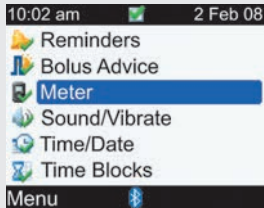
Main Menu > Settings > Meter > Bluetooth

1.



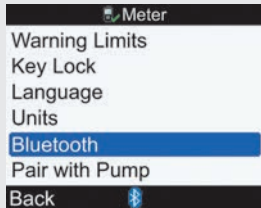
- ▶ From the Main Menu, select Settings and press .

2.



- ▶ Select Meter and press .



3.



- ▶ Select Bluetooth and press .

4.



- ▶ To turn *Bluetooth* wireless technology either On or Off, press and hold  until the *Bluetooth* wireless technology icon changes. Release .

To save the change and return to the Meter Menu screen, select Back.

5.12 Pairing the Meter and Pump

For complete pairing instructions, see the Advanced Owner's Booklet.

NOTE

Cybersecurity precautions

- While paired, keep your meter and pump within your control at all times.
- Do not pair your meter and pump in a public area.
- Monitor your blood glucose levels closely.
- Do not connect to any third-party devices or use any software not authorized by Roche.
- If you suspect that your pump settings or insulin delivery changed unexpectedly, immediately cancel any unintended boluses and contact your healthcare professional.

5.13 Setting the Beeper, Vibrate, Key Sound

You can set up the meter for sound mode and/or vibrate mode. The meter features different sound (beeper) tones. Sounds may occur for:

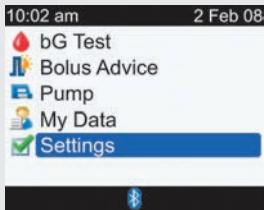
- Button presses
- Errors
- Warnings
- Reminders

NOTE

- Beeper and vibrate cannot both be turned off at the same time.
- When Key Sound is on, the meter beeps each time a button is pressed.
- Even when the beeper is turned off, the meter still beeps when an error message occurs.
- When in the low battery condition, the meter uses the medium beeper level (if the beeper level is set to high) and disables vibrate. In the low battery condition, the main menu screen will continue to display the icons for vibrate and beeper, unless you have set them to Off. After the batteries are replaced with new ones, the meter returns to the beeper/vibrate settings you have set.

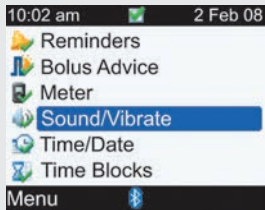
Main Menu > Settings > Sound/Vibrate

1.



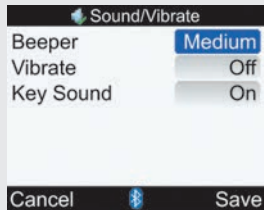
- ▶ From the Main Menu, select Settings and press .

2.



- ▶ Select Sound/Vibrate and press .

3.



To Change the Beeper Sound Level:

- ▶ Select the Beeper entry field and press .
- ▶ Select the Beeper sound level (Off, Low, Medium, or High) and press .

To Turn the Vibrate On or Off:

- ▶ Select the Vibrate entry field and press .
- ▶ Select the Vibrate mode (On or Off) and press .

To Change the Key Sound:

- ▶ Select the Key Sound entry field and press .
- ▶ Select the Key Sound mode (On or Off) and press .

To save the changes and return to the Settings Menu screen, select Save.

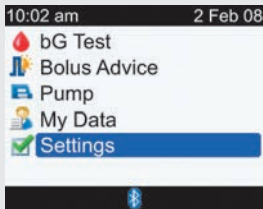
5.14 Setting the Time Format, Time, Date

NOTE

- It is recommended you set the date and time on the pump (the date and time on the meter will automatically synchronize to match the pump).
- Changing the date and time will impact the Trend Graph and the Trend Table (see Reporting Your Data Trends in Section 4.4, Reporting Your Data).
- For 12-hour time format, time is displayed as “HH:MM A/P” (example: 3:53 pm) and for 24-hour time format, time is displayed as “HH:MM” (example: 15:53) where “H” is hour and “M” is minute.
- The date format is displayed as “DD MMM YY” (example: 02 Feb 08) where “D” is day, “M” is month, and “Y” is year.

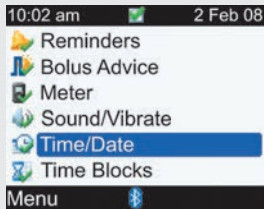
Main Menu > Settings > Time/Date

1.



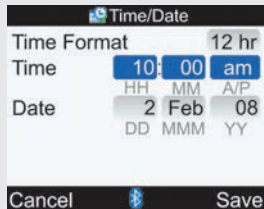
- ▶ From the Main Menu, select Settings and press .

2.



- ▶ Select Time/Date and press .

3.



To Change the Time Format:

- ▶ Select the Time Format entry field and press .
- ▶ Select 12 hr or 24 hr Time Format and press .

To Change the Time:

- ▶ Select the Time entry field and press .
- ▶ Set the Hour and press .
- ▶ Set the Minutes and press .
- ▶ If Time Format is 12 hr, select am or pm and press .

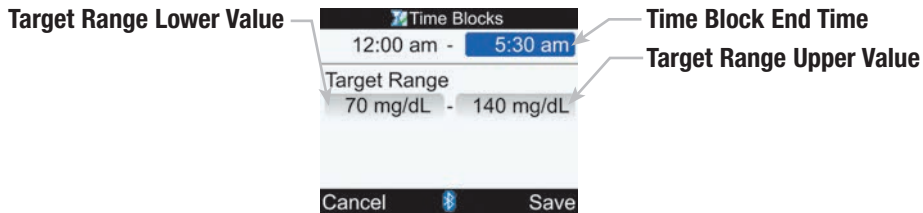
To Change the Date:

- ▶ Select the Date entry field and press .
- ▶ Set the Day and press .
- ▶ Set the Month and press .
- ▶ Set the Year and press .

To save the changes and return to the Settings Menu screen, select Save.

5.15 Setting Time Blocks: Bolus Advice Not Set Up

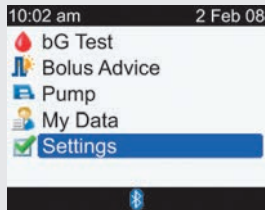
This section is for changing, adding, and removing time blocks only if bolus advice has not been set up. For each time block, you can set up different blood glucose target ranges. It is suggested that you review the Getting Started Guide before continuing. Prior to setting up time blocks, it is recommended that you determine how many time blocks you need and also determine the start/end times. Talk to your healthcare professional about arranging your time blocks in order to help best manage your diabetes.



Change End Time, Target Range Lower Value, and/or Target Range Upper Value

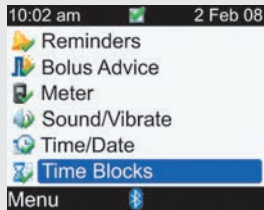
Main Menu > Settings > Time Blocks

1.



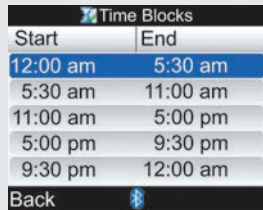
- ▶ From the Main Menu, select Settings and press .

2.



- Time Blocks does not appear if bolus advice has been set up.
- ▶ Select Time Blocks and press .

3.



- ▶ Select the time block to edit and press .

4.

Time Blocks

12:00 am - 5:30 am

Target Range

70 mg/dL - 140 mg/dL

Cancel Bluetooth Save

To Change the End Time:

- ▶ Select the End Time entry field and press .
- ▶ Set the End Time and press .

To Change the Target Range:

- ▶ Select the entry field for the lower value of the Target Range and press .
- ▶ Set the value and press .
- ▶ Select the entry field for the upper value of the Target Range and press .
- ▶ Set the value and press .

To save the changes and return to the Time Blocks screen, select Save.

5.


Time Blocks

Start	End
12:00 am	5:30 am
5:30 am	11:00 am
11:00 am	5:00 pm
5:00 pm	9:30 pm
9:30 pm	12:00 am

Back Bluetooth

- ▶ Repeat Steps 3 and 4 to change another time block. Otherwise, select Back to return to the Settings screen.

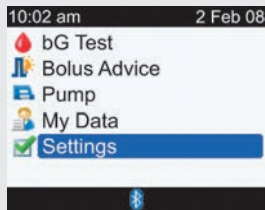
NOTE

- When you set the end time, the meter sets this end time as the start time for the next time block.
- The end time can be set in 30-minute increments.
- To cancel changes press .

Add a Time Block

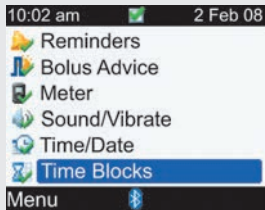
Main Menu > Settings > Time Blocks

1.



- ▶ From the Main Menu, select Settings and press .

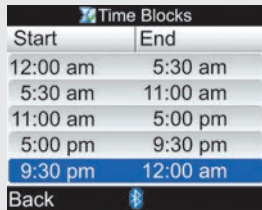
2.



Time Blocks does not appear if bolus advice has been set up.

- ▶ Select Time Blocks and press .

3.



- ▶ Select the **last** time block and press .

4.

The screenshot shows a mobile application interface titled "Time Blocks". At the top, there is a header bar with a blue icon and the text "Time Blocks". Below the header, there are two rows of input fields. The first row shows a time range from "9:30 pm" to "12:00 am", with "12:00 am" highlighted in blue. The second row is labeled "Target Range" and shows a range from "70 mg/dL" to "140 mg/dL". At the bottom of the screen, there is a dark bar with two buttons: "Cancel" on the left and "Save" on the right, separated by a Bluetooth icon.

- ▶ Select the End Time entry field and press .

- ▶ Set the End Time of the selected Time Block and press . This will be the start time of the added time block.

To save the changes and return to the Time Blocks screen, select Save.

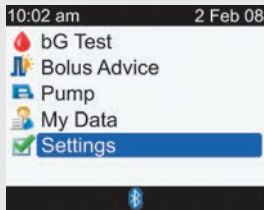
5.

- ▶ Update the End Times and Target Ranges for all time blocks, as needed. See **Change End Time, Target Range Lower Value**, and/or **Target Range Upper Value** in this section.

Remove a Time Block

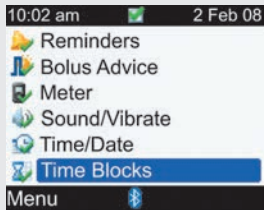
Main Menu > Settings > Time Blocks

1.



- ▶ From the Main Menu, select Settings and press .

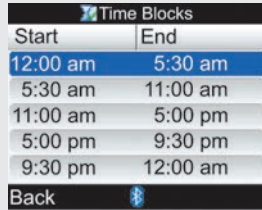
2.



Time Blocks does not appear if bolus advice has been set up.

- ▶ Select Time Blocks and press .

3.



- ▶ Select the Time Block you want to remove and press .

4.

Time Blocks

12:00 am - 5:30 am

Target Range

70 mg/dL - 140 mg/dL

Cancel Save

- ▶ Select the End Time entry field and press .
- ▶ Set the End Time to match the start time of the Time Block and press .

To save the changes and return to the Time Blocks screen, select Save.

5.

- ▶ Update the End Times and Target Ranges for the remaining time blocks, as needed. See **Change End Time, Target Range Lower Value, and/or Target Range Upper Value** in this section.

5.16 Backlight Settings

The backlight on your Accu-Chek Aviva Combo meter helps you read the information on the meter display under different lighting conditions. You can adjust the backlight level by pressing the backlight button on the front of the meter. The backlight adjusts from low, to medium, to high, and back to low again.



Backlight Button

Press to adjust the backlight level.

NOTE

- When the meter is turned on, the backlight is set to medium.
- When the backlight is set to high or medium and no button activity has occurred for approximately 15 seconds, the meter goes to low backlight (to conserve battery life). The meter restores the original backlight setting when you press a button, insert a test strip, or when the meter displays the bG Results screen.
- When in the low battery condition, the meter uses the medium backlight level (if the backlight level is set to high). After the batteries are replaced with new ones, the meter again allows the high backlight setting.
- The backlight button is disabled during a blood glucose test, a control test, and when the meter is transferring data.

6 Icons, Reminders, Warnings, and Errors

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6.1 Overview











This chapter provides you with detailed listings of all the icons, reminders, warnings, and errors included in the meter.











NOTE

Blood glucose and bG are interchangeable and mean the same thing.

6.2 List of Icons

The icons and icon names in the meter are:



Icon Name	Icon
Active Insulin	
Add Data	
Analyzing	
Beeper	
Blood Glucose Averages	
Blood Glucose Test	
<i>Bluetooth</i> Wireless Technology Enabled	
Bolus Advice	
Bolus Advice (Settings)	
Carbs	

Icon Name	Icon
Control Test	
Date	
Download (Data Transfer)	
Error	
Extended Bolus Confirmed	
Extended Bolus Not Confirmed	
Health	
Low Battery	
Meal Time	
Meter	

Icon Name	Icon
Meter (Settings)	
Multiwave Bolus Not Confirmed	
Multiwave Bolus Confirmed	
My Data	
Pen/Syringe Bolus	
Pump	
Reminder	
Reminders (Settings)	
Reports	
Settings	

Icon Name	Icon
Sound/Vibrate (Settings)	
Standard Bolus Confirmed	
Standard Bolus Not Confirmed	
Time	
Time Block (Settings)	
Time Change	
Time/Date (Settings)	
Vibrate	
View Data	
Warning	

6.3 Confirming a Reminder, Warning, or Error

To confirm (or dismiss) most reminders or warnings, press . Some error messages require a different confirmation, such as “Retest with new Strip” or “Replace batteries now.” To place some reminders in the snooze mode, press . See the following sections for more details on a specific reminder, warning, or error.

6.4 List of Reminders

Reminder Screen Example



NOTE

- The meter beeps when it displays any reminder if the beeper setting is on.
- The meter vibrates when it displays any of the following reminders if the vibrate setting is on: After Meal Retest, bG Test, High bG Retest, Low bG Retest, and Other.

For instructions on how to set up meter reminders, see Chapter 5, Changing Meter Settings. The reminders available on the meter are:

Reminder Title	Reminder Message	Left Soft Key	Right Soft Key	Snooze Time
After Meal Retest	Carbs entry higher than Snack Size setting. Retest.	Snooze	Dismiss	5 minutes
bG Test	It is time for your scheduled bG test	Snooze	Dismiss	15 minutes
Dr. Visit Today	<p>If the Dr. Visit time has been set: You have a Dr. Appointment today at (Settings Dr. Visit Time)¹</p> <p>Or, if the Dr. Visit time has not been set: You have a Dr. Appointment today</p>		Dismiss	

Reminder Title	Reminder Message	Left Soft Key	Right Soft Key	Snooze Time
Dr. Visit Tomorrow	<p>If the Dr. Visit time has been set: You have a Dr. Appointment tomorrow at (Settings Dr. Visit Time)¹</p> <p>Or, if the Dr. Visit time has not been set: You have a Dr. Appointment tomorrow</p>		Dismiss	
High bG Retest	High bG Result on last test. Retest.	Snooze	Dismiss	15 minutes
Infusion Set Change	It is time to change your Infusion Set	Snooze	Dismiss	Displayed the next time the meter is powered-on

Reminder Title	Reminder Message	Left Soft Key	Right Soft Key	Snooze Time
Lab Test Today	<p>If the lab test time has been set: You have a Lab Test today at (Settings Lab Test Time)¹</p> <p>Or, if the lab test time has not been set: You have a Lab Test today</p>		Dismiss	
Lab Test Tomorrow	<p>If the lab test time has been set: You have a Lab Test tomorrow at (Settings Lab Test Time)¹</p> <p>Or, if the lab test time has not been set: You have a Lab Test tomorrow</p>		Dismiss	
Low bG Retest	Low bG Result on last test. Retest.	Snooze	Dismiss	5 minutes
Other	It is time for your Other activity	Snooze	Dismiss	15 minutes


¹If set, the time of the Dr. Visit or the Lab Test is displayed on the screen.

Reminders: Important Information



- When two or more event reminders occur at the same time, the meter displays the event reminder with the highest priority first:
 1. bG Test Reminders (After High bG, After Low bG, and After Meal)
 2. Alarm Clock Reminders (bG Test and Other)
 3. Date Reminders (Dr. Visit, Lab Test, and Infusion Set Change)

The following occur when the particular reminder is enabled and scheduled:



Dr. Visit Today, Dr. Visit Tomorrow, Lab Test Today, and Lab Test Tomorrow Reminders

- Displayed when you turn on the meter and a test strip has not been inserted.
- Dismiss the reminder either by pressing  or by inserting a test strip.



Infusion Set Change Reminder

- Displayed when you turn on the meter and a test strip has not been inserted.
- Dismiss the reminder by pressing .
- Snooze the reminder either by pressing  or by inserting a test strip.



Low bG Retest Reminder

- When your blood glucose test result is less than the low blood glucose threshold setting you have set up (see Chapter 5, Changing Meter Settings), then the meter schedules a Low bG Retest reminder for the time duration you have set up. The meter maintains the duration of this scheduled reminder regardless of meter time and date changes.
- At the scheduled time, the meter turns on and displays the reminder (if a test strip has not been inserted).
- If the meter is already on when the reminder is scheduled and no blood glucose test was performed, the reminder is displayed when the meter powers down.
- When the meter displays the reminder and you do not press any meter buttons within 30 seconds, the meter turns off and displays the reminder again in 2 minutes. After the fourth time the meter displays the reminder, then the meter dismisses the reminder.
- Dismiss the reminder by pressing .
- Snooze the reminder for 5 minutes either by pressing  or by inserting a test strip.
- When you perform a blood glucose test, the meter dismisses any Low bG Retest reminders pending within the next 30 minutes. If necessary, a new reminder is scheduled based upon the blood glucose test result.



High bG Retest Reminder

- When your blood glucose test result is greater than the high blood glucose threshold setting you have set up (see Chapter 5, Changing Meter Settings), then the meter schedules a High bG Retest reminder for the time duration you have set up. The meter maintains the duration of this scheduled reminder regardless of meter time and date changes.
- At the scheduled time, the meter turns on and displays the reminder (if a test strip has not been inserted).
- If the meter is already on when the reminder is scheduled and no blood glucose test was performed, the reminder is displayed when the meter powers down.
- When the meter displays the reminder and you do not press any meter buttons within 30 seconds, the meter turns off and displays the reminder again in 2 minutes. After the fourth time the meter displays the reminder, then the meter dismisses the reminder.
- Dismiss the reminder by pressing .
- Snooze the reminder for 15 minutes either by pressing  or by inserting a test strip.
- When you perform a blood glucose test, the meter dismisses any High bG Retest reminders pending within the next 30 minutes. If necessary, a new reminder is scheduled based upon the blood glucose test result.



After Meal Reminder

- When you enter carbohydrates into the diary through one of the following screens and the carbohydrates entered are greater than the Snack Size setting, then the meter schedules an After Meal reminder for the time duration you have set up (see Chapter 5, Changing Meter Settings). The meter maintains the duration of this scheduled reminder regardless of meter time and date changes.
 - Add Data screen (see Chapter 4, Managing Your Data)
 - Modify Data screen (see Chapter 4, Managing Your Data)
 - Detailed bG Result screen (see Chapter 2, Testing Your Blood Glucose)
 - Bolus Advice screen (see the Advanced Owner's Booklet)
- At the scheduled time, the meter turns on and displays the reminder (if a test strip has not been inserted).
- If the meter is already on when the reminder is scheduled and no blood glucose test was performed, the reminder is displayed when the meter powers down.
- When the meter displays the reminder and you do not press any meter buttons within 30 seconds, the meter turns off and displays the reminder again in 2 minutes. After the fourth time the meter displays the reminder, then the meter dismisses the reminder.
- Dismiss the reminder by pressing .
- Snooze the reminder for 5 minutes either by pressing  or by inserting a test strip.
- When you perform a blood glucose test, the meter dismisses any After Meal reminders pending within the next 30 minutes. If necessary, a new reminder is scheduled based upon the blood glucose test result.

Alarm Clock Reminders for bG Test and Other

- At the scheduled time, the meter turns on and displays the reminder (if a test strip has not been inserted).
- When the meter displays an Alarm Clock reminder and you do not press any meter buttons, after 30 seconds the meter turns off and displays the reminder again in 2 minutes. After the fourth time the meter displays the reminder, then the meter dismisses the reminder.
- **bG Test Alarm Clock Reminder**
 - If the meter is already on when the reminder is scheduled and no blood glucose test was performed, the reminder is displayed when the meter powers down.
 - Dismiss all active bG Test reminders by pressing .
 - Snooze the reminder for 15 minutes either by pressing  or by inserting a test strip.
 - When you perform a blood glucose test, the meter dismisses any bG Test reminders that have been snoozed or that are pending within the next 30 minutes.

• Other Alarm Clock Reminder

- If the meter is already on when the reminder is scheduled, the reminder is displayed when the meter powers down.
- Dismiss this reminder either by pressing  or by inserting a test strip.
- Snooze the reminder for 15 minutes by pressing .

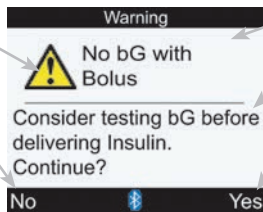
6.5 List of Warnings

Warning Screen Example

Warning Icon

No

Only shown on a few warning screens



Warning Title

Warning Message

Yes or OK

NOTE

The meter beeps when it displays a warning if the beeper setting is on.

The warnings the meter may display are:

Warning Title	Warning Message	Left Soft Key	Right Soft Key
Above Hyper Warning Limit	Consider checking for ketones, bG and insulin regularly		OK
Beep/Vibrate Off	Beep and Vibrate settings cannot both be turned off at same time		OK
Below Hypo Warning Limit	Eat fast carbs of at least (number of carbs) ¹ Retest bG		OK
Bolus Advice	Bolus Advice data deleted		OK
Bolus Advice Not Setup	Advice not provided unless setup through Bolus Advice in Settings		OK
Bolus Advice Timeout	Bolus Advice no longer possible for this bG result		OK
Bolus Delivery Unavailable	Communication lost. Retry or set to Manual Pump.		OK
Bolus Delivery Unavailable	Pump unable to start Bolus. See Pump.		OK
Bolus Delivery Unavailable	Pump currently in Stop mode		OK

Warning Title	Warning Message	Left Soft Key	Right Soft Key
Bolus Too High	Bolus above allowed amount. Bolus set to maximum.		OK
Bolus Too Low	Bolus below allowed amount. Bolus set to minimum.		OK
Calculation Out of Range	No Bolus Advice available		OK
Carbohydrate Ratio	Carb Ratio seems unusual. Check entries.		OK
Code Key Missing	Turn off Meter and insert valid Code Key		OK
Communication Lost	See Pump		OK
Communication Warning	Pump data not available, Active Insulin may not be accurate		OK
Communication Warning	Pump data not available, recent Bolus data may not be accurate		OK
Connection Lost	Ensure Pump is within range of Meter		OK
Connection Lost	Restart Meter, select “Settings”, “Meter”, “Pair with Pump”		OK
Corrupt Language	Choose another language		OK

Warning Title	Warning Message	Left Soft Key	Right Soft Key
Diary Entry Used For Advice	Diary entry used for Advice, modifications not allowed		OK
Diary Results Expired	New data cannot be saved with this record		OK
HI bG Warning	Consider checking bG, ketones and insulin		OK
Incorrect Pump Time/Date	Pump time/date incorrect. Set time/date on the Pump. ²		OK
Infrequent Pump Communication	Two weeks since last communication with Pump		OK
Insulin Sensitivity	Insulin Sensitivity seems unusual. Check entries.		OK
Invalid Active Insulin	Unable to calculate the Active Insulin. Bolus Advice not available.		OK
Invalid Bolus Advice Times	Acting time must be greater than or equal to offset time		OK
Invalid Date	Reenter valid date		OK
Invalid Hyper Values	Hyper value must be greater than Time Block target ranges		OK

Warning Title	Warning Message	Left Soft Key	Right Soft Key
Invalid Hypo Values	Hypo value must be less than Time Block target ranges		OK
Invalid PIN	Reenter PIN shown on Pump display		OK
Invalid Record Time/Date	Record time/date must be older than the current meter time/date		OK
Invalid Target Range	Lower target range value above upper target range value		OK
Invalid Target Range	Range selected conflicts with Hyper and/or Hypo Warning Limit settings		OK
LO bG Warning	Retest bG. Contact your doctor.		OK
Meter and Pump Not Paired	Pair with Pump to use this feature		OK
Meter Battery Low	Replace soon. No Pump connection.		OK
No bG with Bolus	Consider testing bG before delivering Insulin. Continue?	No	Yes
Pairing Failed	Restart Meter, select “Settings”, “Meter”, “Pair with Pump”		OK

Warning Title	Warning Message	Left Soft Key	Right Soft Key
Pump Not Available	Ensure Bluetooth is on and Pump is within range of Meter		OK
Test Strips Expiring	Change Code Key and Strips soon		OK
Time Mismatch	Meter time has been changed by more than 5 minutes to match Pump		OK

¹ The meter displays a recommended amount of fast carbohydrates.

² The meter keeps its current date and time. The meter turns off *Bluetooth* wireless technology communication for this session.

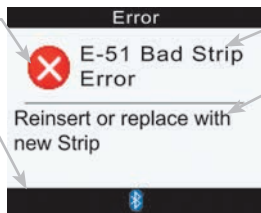
6.6 List of Errors

Error Screen Example

Error Icon

Menu

This option is not available for all errors.



Error Title

Error Message

NOTE

The meter beeps when it displays an error, even if the beeper setting is turned off.

The errors the meter may display are:

Error Title	Error Message	Left Soft Key	Right Soft Key
E-51 Bad Strip Error	Reinsert or replace with new Strip		
E-52 Code Key Error	Turn Meter off, reinsert or replace Code Key	Menu ¹	OK ²
E-53 Bad Test Error	Retest with new Strip		
E-54 Not Enough Sample	Retest with new Strip		
E-55 Code Key Expired	Turn Meter off, replace Code Key and Strips	Menu ¹	OK ²
E-56 Sample Applied Early	Retest with new Strip		
E-57 Electronic Error	Remove batteries, wait 20 seconds, replace batteries		
E-58 Temp. Error	Move Meter to correct temperature and wait 5 minutes	Menu ³	OK ³

Error Title	Error Message	Left Soft Key	Right Soft Key
E-59 Battery Empty	Replace batteries now		
E-60 Time/Date Error	Correct time/date if necessary	Menu	

¹ “Menu” is only displayed when the meter is on a bG test screen.

² “OK” is only displayed after the splash screen (ACCU-CHEK logo screen).

³ If the meter is powering up, then “OK” is displayed above the right soft key and “Menu” is not displayed above the left soft key.

7 Cleaning and Disinfecting the Meter and Lancing Device

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7.3 Cleaning and Disinfecting the Lancing Device	233

7.1 Overview

WARNING

- During normal testing any blood glucose meter or lancing device may come in contact with blood. All parts of the kit are considered biohazardous and can potentially transmit infectious diseases from bloodborne pathogens, even after you have performed cleaning and disinfection.^{1,2}
- Cleaning and disinfecting the meter and lancing device destroys most, but not necessarily all, bloodborne pathogens.³
- The meter and lancing device should never be used by more than one person. Do not share the meter and lancing device with anyone, including family members, due to the risk of infection from bloodborne pathogens.^{1,2}
- If the meter is being operated by a second person who is providing testing assistance to the user, the meter and lancing device should be cleaned and disinfected prior to use by the second person.
- Disinfect the meter and lancing device before allowing anyone else to handle them. Do not allow anyone else to test with the meter or lancing device.
- It is important to keep the meter and lancing device clean and disinfected.
- Wash hands thoroughly before and after handling the meter, lancing device, or test strips.

^{1,2,3}, See Appendix E

What is the difference between cleaning and disinfecting?

Cleaning is the removal of dirt from the meter or lancing device.³

Disinfecting is the removal of most, but not all, disease-causing and other types of microorganisms (bloodborne pathogens) from the meter or lancing device.³

³ See Appendix E

When should the meter and lancing device be cleaned and disinfected?

Clean and disinfect the meter and lancing device:

- Once per week
- When blood gets on the meter or lancing device
- Before allowing anyone else to handle the meter or lancing device

NOTE

For technical assistance or questions on cleaning and disinfecting, please contact the Accu-Chek Customer Care Service Center at 1-800-688-4578.

7.2 Cleaning and Disinfecting the Meter

To clean and disinfect without damaging the meter, follow these procedures carefully.

When to Clean and Disinfect the Meter

- Clean the meter to remove visible dirt or other material prior to disinfecting.
- Clean and disinfect the meter at least once per week, or when blood is present on the surface of the meter.
- Clean and disinfect the meter before allowing anyone else to handle the meter. **Do not allow anyone else to use the meter on themselves for testing purposes.**

Approved Cleaning and Disinfecting Products

- Super Sani-Cloth (EPA* reg. no. 9480-4)

*Environmental Protection Agency

The above product has been approved for use and can be purchased from the following sources:

- Amazon.com
- Officedepot.com
- Walmart.com

NOTE

Using cleaning and disinfecting products could result in damage to the meter. If you notice any of the following signs of deterioration after cleaning and disinfecting your meter, stop using your meter and contact the Accu-Chek Customer Care Service Center at 1-800-688-4578: residue around buttons, clouding of display, button malfunction, out of range controls results.

What to Clean and Disinfect

The following parts of the meter should be cleaned and disinfected:

- The area **around** slots and openings (do not get any moisture in slots or openings)
- The meter display
- The entire meter surface

How to Clean and Disinfect the Meter

WARNING



- ▶ **DO NOT** clean or disinfect the meter while performing a blood glucose or control test.
- ▶ **DO NOT** get any moisture in slots or openings.



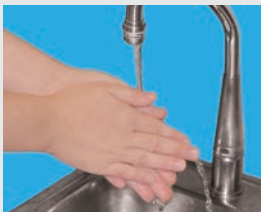
- ▶ **DO NOT** spray anything onto the meter.



- ▶ **DO NOT** immerse the meter in liquid.

Failure to follow these instructions will damage the meter and stop it from working properly.

1.



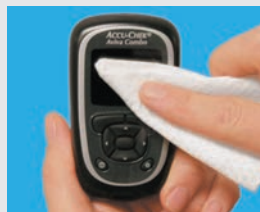
- ▶ Wash hands thoroughly with soap and water.

2.



- ▶ Turn off the meter and place it on a flat surface, such as a table.

3.



- ▶ Wipe the entire meter surface with the approved cleaning and disinfecting product. Always use the same product for both cleaning and disinfecting.

WARNING

The effect of using more than one product interchangeably to clean and disinfect the meter has not been tested. Always use the same product to clean and disinfect the meter.

4.

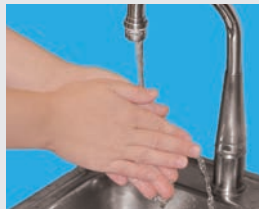


- ▶ Carefully wipe **around** the test strip slot and other openings. Make sure that no liquid enters any slot or opening.

5.

- ▶ A separate Super Sani-Cloth should be used for cleaning and disinfection. For disinfecting the meter, get a new cloth and repeat steps 3 and 4, making sure that the surface stays wet for 2 minutes.

6.



- ▶ Wash hands thoroughly with soap and water.

NOTE

Roche has tested the approved product for a total of 416 cycles, which is equal to cleaning and disinfecting once per week for a 4 year period.

7.3 Cleaning and Disinfecting the Lancing Device

NOTE

- Do not throw away the lancing device cap after each use. Use approved cleaning and disinfecting products on it.
- Always remove the lancet drum before cleaning or disinfecting the lancing device.

To clean and disinfect without damaging the lancing device, follow these procedures carefully.

When to Clean and Disinfect the Lancing Device

- Clean the lancing device to remove visible dirt or other material prior to disinfecting.
- Clean and disinfect the lancing device once per week to remove visible dirt or other material for safe handling.
- Clean and disinfect the lancing device before allowing anyone else to handle the lancing device, for instance, if you have someone assisting you. **Do not allow anyone else to use the lancing device.**

Approved Cleaning and Disinfecting Products

- Super Sani-Cloth (EPA* reg. no. 9480-4)

*Environmental Protection Agency

The above product has been approved for use and can be purchased from the following sources:

- Amazon.com
- Officedepot.com
- Walmart.com

NOTE

Using cleaning and disinfecting products could result in damage to the lancing device. If you notice any of the following signs of deterioration after cleaning and disinfecting your lancing device, stop using your lancing device and contact the Accu-Chek Customer Care Service Center at 1-800-688-4578: residue around buttons, difficulty in priming the device, difficulty in inserting the lancet drum.

What to Clean and Disinfect

The following parts of the lancing device may be cleaned and disinfected:

- The entire lancing device surface
- The cap

How to Clean and Disinfect the Lancing Device

WARNING

- DO NOT get any moisture into opening around button.
- Failure to follow these instructions may damage the lancing device and stop it from working properly.

1.



- ▶ Wash hands thoroughly with soap and water.

2.



- ▶ Wipe the entire surface of the lancing device and the inside of the lancing device cap with the approved cleaning and disinfecting product. Always use the same product for both cleaning and disinfecting.

3.

- ▶ A separate Super Sani-Cloth should be used for cleaning and disinfection. For disinfecting the lancing device, get a new cloth and repeat step 2, making sure that the surface stays wet for 2 minutes.

4.



- ▶ Wash hands thoroughly with soap and water.

WARNING

The effect of using more than one product interchangeably to clean and disinfect the lancing device has not been tested. Always use Super Sani-Cloth (EPA reg. no. 9480-4) to clean and disinfect the lancing device. Do not use any other cleaning or disinfecting solutions. Using solutions other than the Super Sani-Cloth could result in damage to the lancing device.

NOTE

Roche has tested the approved product for a total of 520 cycles, which is equal to cleaning and disinfecting once per week for a 5-year period.

8 Maintenance

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8.1 Overview

It is important to properly care for and maintain your Accu-Chek Aviva Combo meter. If you have any questions about the care and maintenance of your meter, contact Accu-Chek Customer Care Service Center at 1-800-688-4578.

8.2 Changing the Batteries

1.



- ▶ Remove the battery door from the back of the meter by pushing the tab in the direction of the arrow and pulling up the door.

2.



- ▶ Remove the old batteries from the meter.
- ▶ Insert three AAA batteries with the + and - ends matching the marks in the battery compartment.

3.



- ▶ Put the battery door back in place and snap it closed.

WARNING

- Using batteries other than those supplied or recommended for use with the meter may significantly reduce the life of the batteries. Batteries other than those recommended may leak and corrode the battery contacts within the meter. Using batteries not supplied or recommended may void the warranty.
- Replace all batteries of a set at the same time. Newly purchased batteries should not be mixed with partially exhausted ones. Batteries of different electrochemical systems, grades, or brands should not be mixed. Failure to observe these precautions may result in some batteries in a set being driven beyond their normal exhaustion point and thus increase the probability of leakage.

NOTE


- Alkaline batteries are recommended for use with the meter.
- After you change the batteries, the meter prompts you to confirm the time and date settings.
- It is a good idea to have spare, packaged batteries available.
- All test results, diary information, and settings are saved in the meter memory when the batteries are replaced.
- The meter remains paired with the pump when you remove and replace the batteries.
- Rechargeable batteries may be used in the meter. However, rechargeable batteries may not maintain the same battery life as non-rechargeable batteries.
- When the Low Battery warning appears:
 - *Bluetooth* wireless technology communication is disabled.
 - If vibrate is set to On, it is disabled until the batteries are replaced.
 - If the backlight level is set to high, the medium backlight level is used until the batteries are replaced.
 - If the beeper level is set to high, the medium beeper level is used until the batteries are replaced.

8.3 Power-Saving Tips

To conserve battery life:

- Use the low beeper setting.
- Only turn on the vibrate feature when it is needed.
- Turn off the meter when you are finished rather than utilizing the auto power off feature.

8.4 Maintenance and Testing

- The meter needs little or no maintenance with normal use. It automatically tests its own systems every time you turn it on and lets you know if something is wrong. For detailed information on troubleshooting the meter, see Chapter 9, Troubleshooting.
- If you drop the meter or think it is not giving accurate results, ensure your test strips and control solution have not expired, and then perform a control test.
- Perform a control test with each new vial of test strips.
- To test the meter display, turn off the meter, and then press and hold the  button. The display cycles through colors (red, blue, green, and white). If any part of the display does not change colors, contact Accu-Chek Customer Care Service Center at 1-800-688-4578.
- If the meter is not working properly, contact Accu-Chek Customer Care Service Center at 1-800-688-4578.

9 Troubleshooting

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9.1 Overview

For most problems, the meter displays a message with a short description of the symptom and, along with it, a proposed solution. This chapter goes into more detail by describing the symptom, the possible cause, and the possible solution. If the possible solutions do not fix the problem, contact Accu-Chek Customer Care Service Center at 1-800-688-4578.


WARNING

Never make treatment decisions based on a warning or error message. If you have any concerns, contact Accu-Chek Customer Care Service Center at 1-800-688-4578.

NOTE

- If you drop the meter or think it is not giving accurate results, make sure your test strips and control solution have not expired, and then perform a control test. For further assistance, contact Accu-Chek Customer Care Service Center at 1-800-688-4578.
- Blood glucose and bG are interchangeable and mean the same thing.

9.2 Troubleshooting the Accu-Chek Aviva Combo Meter

Display Shows	Possible Cause(s)	Possible Solution(s)
The display is blank or the meter will not turn on.	▶ Batteries are dead.	▶ Install new batteries. See Chapter 8, Maintenance.
	▶ Display is damaged.	▶ Contact Accu-Chek Customer Care Service Center at 1-800-688-4578.
	▶ Meter is defective.	▶ Contact Accu-Chek Customer Care Service Center at 1-800-688-4578.
	▶ Extreme temperature – the temperature is outside the meter operating range.	▶ Move the meter to an area with proper temperature. Wait five minutes before turning on the meter. Do not artificially heat or cool the meter.
 Bluetooth icon flashing	▶ Communication ended due to a button press on the pump.	▶ Check the pump and continue operation of the pump manually. ▶ Ensure the pump has <i>Bluetooth</i> wireless technology turned on.
	▶ Meter and pump are outside of communication range.	▶ Ensure pump is within communication range.

Display Shows	Possible Cause(s)	Possible Solution(s)
Above Hyper Warning Limit	<ul style="list-style-type: none"> ▶ Your test result is above the hyper warning limit set in the meter. 	<ul style="list-style-type: none"> ▶ Treat your high blood glucose as recommended by your healthcare professional. ▶ Consider checking bG, ketones, and insulin. ▶ See the pump User Guide for additional solutions.
Beep/Vibrate Off	<ul style="list-style-type: none"> ▶ Beep and Vibrate settings cannot be turned off at the same time. 	<ul style="list-style-type: none"> ▶ Ensure that either the Beep or Vibrate setting is turned on. See Chapter 5, Changing Meter Settings.
Below Hypo Warning Limit	<ul style="list-style-type: none"> ▶ Your test result is below the hypo warning limit set in the meter. 	<ul style="list-style-type: none"> ▶ Treat your low blood glucose as recommended by your healthcare professional. ▶ The meter displays a recommended number of carbohydrates for you to eat, and then retest your blood glucose.

Display Shows	Possible Cause(s)	Possible Solution(s)
Bolus Advice Bolus Advice data deleted	<p>▶ Bolus advice data integrity cannot be confirmed.</p> <p>IMPORTANT</p> <ul style="list-style-type: none"> • Insulin doses and meals taken before the Bolus Advice warning are no longer reflected in the bolus advice calculation. • The meter may not reflect the pump bolus history, however the bolus history is available on the pump. 	<p>▶ Wait 8 hours for accurate bolus advice.</p>
Bolus Advice Not Setup	<p>▶ Advice is not provided unless it is set up through Bolus Advice in Settings Menu.</p>	<p>▶ You can continue to use the meter without bolus advice or see Chapter 5, Changing Meter Settings for instructions on how to set up bolus advice.</p>
Bolus Advice Timeout	<p>▶ Bolus advice is no longer available for this bG result.</p>	<p>▶ Review data that was saved in My Data. Then, decide to modify data, add data, or begin a new bolus advice session.</p>

Display Shows	Possible Cause(s)	Possible Solution(s)
Bolus Delivery Unavailable	<ul style="list-style-type: none"> ▶ The meter cannot communicate with the pump. 	<ul style="list-style-type: none"> ▶ Retry or set to Manual Pump. ▶ Ensure the meter and pump have <i>Bluetooth</i> wireless technology turned on. ▶ Ensure the meter and pump are within communication range. ▶ If the low battery icon is displayed on the meter, the meter cannot communicate with the pump. Replace the batteries.
	<ul style="list-style-type: none"> ▶ The pump is currently in Stop mode. 	<ul style="list-style-type: none"> ▶ Take the pump out of Stop mode.
	<ul style="list-style-type: none"> ▶ The pump is currently delivering a bolus. 	<ul style="list-style-type: none"> ▶ Allow the current bolus delivery to complete before delivering the next bolus.
Bolus Too High	<ul style="list-style-type: none"> ▶ The bolus is above the allowed amount. The bolus was set to 50 Units. 	<ul style="list-style-type: none"> ▶ Check the accuracy of all entries. If necessary, contact your healthcare professional.
Bolus Too Low	<ul style="list-style-type: none"> ▶ The insulin pump cannot deliver a 0.1 Unit of multiwave bolus. 	<ul style="list-style-type: none"> ▶ The pump will adjust the bolus to 0.2 Units.

Display Shows	Possible Cause(s)	Possible Solution(s)
Carbohydrate Ratio	▶ Carbohydrate ratio is outside of the acceptable meter range.	▶ Check your entries and contact your healthcare professional to determine the appropriate settings.
Code Key Missing	▶ The black code key is not inserted.	▶ Turn off the meter and insert the black code key. If you need a black code key, please contact Accu-Chek Customer Care Service Center at 1-800-688-4578.
Communication Lost	▶ Pump is out of range of the meter.	<ul style="list-style-type: none"> ▶ Bolus delivery continuing, see pump screen. ▶ Ensure the meter and pump have <i>Bluetooth</i> wireless technology turned on. ▶ Ensure the meter and pump are within communication range. ▶ If the low battery icon is displayed on the meter, the meter cannot communicate with the pump. Replace the batteries. ▶ Use the pump to monitor or cancel a bolus which is in the process of being delivered.

Display Shows	Possible Cause(s)	Possible Solution(s)
Communication Warning	<ul style="list-style-type: none"> ▶ Communication of bolus data from the pump was not successful. Therefore, pump data are not available and the bolus data may not be accurate. ▶ Communication of bolus data from the pump was not successful. Therefore, pump data are not available and the active insulin amount may not be accurate. 	<ul style="list-style-type: none"> ▶ Ensure the meter and pump have <i>Bluetooth</i> wireless technology turned on. ▶ Ensure the meter and pump are within communication range. ▶ If the low battery icon is displayed on the meter, the meter cannot communicate with the pump. Replace the batteries.

Display Shows	Possible Cause(s)	Possible Solution(s)
Connection Lost	<ul style="list-style-type: none"> ▶ The connection was lost between the meter and the pump during the pairing process. Therefore, the attempt to pair the meter and pump was unsuccessful. 	<ul style="list-style-type: none"> ▶ Restart the pairing process. See the Advanced Owner's Booklet. ▶ Ensure the meter and pump have <i>Bluetooth</i> wireless technology turned on. ▶ If the low battery icon is displayed on the meter, the meter cannot communicate with the pump. Replace the batteries.
	<ul style="list-style-type: none"> ▶ Pump is out of range of the meter. 	<ul style="list-style-type: none"> ▶ Ensure the meter and pump are within communication range.
Diary Entry Used For Advice	<ul style="list-style-type: none"> ▶ The diary entry selected has been used for bolus advice and modifications are not allowed. 	<ul style="list-style-type: none"> ▶ Carefully confirm all information involving bolus advice. You cannot modify bolus advice-related entries on the meter.
Diary Results Expired	<ul style="list-style-type: none"> ▶ Bolus advice is no longer available for this result. 	<ul style="list-style-type: none"> ▶ Review data that was saved in My Data. Then, decide to modify data, add data, or begin a new bolus advice session.

Display Shows	Possible Cause(s)	Possible Solution(s)
E-51 Bad Strip Error	<ul style="list-style-type: none"> ▶ The test strip is damaged. ▶ The test strip is not properly inserted into the meter. 	<p>If you see this error message before you applied blood to the test strip:</p> <ul style="list-style-type: none"> ▶ Remove the test strip and reinsert it, or replace it if damaged. Check the Use By date on the test strip container. Do not use test strips past the Use By date. If the message reappears call the Accu-Chek Customer Care Service Center at 1-800-688-4578.
E-52 Code Key Error	<ul style="list-style-type: none"> ▶ The code key is incorrect. 	<ul style="list-style-type: none"> ▶ Please contact Accu-Chek Customer Care Service Center at 1-800-688-4578.

Display Shows	Possible Cause(s)	Possible Solution(s)
E-53 Bad Test Error	▶ A meter or test strip error has occurred.	▶ Discard the test strip and repeat the test.
	▶ Your blood glucose may be extremely high.	▶ If this matches how you feel, contact your healthcare professional immediately. If it does not match how you feel, repeat the blood glucose test and see Chapter 2, Testing Your Blood Glucose. If this still does not match the way you feel, run a control test with your control solution and a new test strip. If the control result is within the acceptable range, review the proper testing procedure and repeat your blood glucose test with a new test strip. If the E-53 error still appears for your blood glucose test, your blood glucose test result may be extremely high and above the system's reading range. Contact your healthcare professional immediately. If the control test result is not within the acceptable range, see Chapter 3, Control Testing.

Display Shows	Possible Cause(s)	Possible Solution(s)
E-54 Not Enough Sample	<ul style="list-style-type: none"> ▶ Not enough blood or control solution was drawn into the test strip for measurement or was applied after the test has started. 	<ul style="list-style-type: none"> ▶ Discard the test strip and repeat the test.
E-55 Code Key Expired	<ul style="list-style-type: none"> ▶ The white code key is from an expired lot of test strips. 	<ul style="list-style-type: none"> ▶ This message may appear when using a white code key in the meter. It means the test strips expire at the end of the current month. At the end of the month, discard the white code key and any remaining test strips. Insert a black code key. Make sure the time and date in the meter are correct. If you need a black code key, please contact Accu-Chek Customer Care Service Center at 1-800-688-4578.
E-56 Sample Applied Early	<ul style="list-style-type: none"> ▶ Blood or control solution was applied to the test strip before the Apply Sample screen appeared on the display. 	<ul style="list-style-type: none"> ▶ Discard the test strip and repeat the test with a new test strip.

Display Shows	Possible Cause(s)	Possible Solution(s)
E-57 Electronic Error	<ul style="list-style-type: none"> ▶ An electronic error has occurred or, in rare cases, a used test strip was removed and reinserted. 	<ul style="list-style-type: none"> ▶ Turn off the meter and remove the batteries. Wait at least 30 seconds prior to reinserting the batteries. Turn on the meter and perform a blood glucose or control test. If the problem persists, contact Accu-Chek Customer Care Service Center at 1-800-688-4578.
E-58 Temp. Error	<ul style="list-style-type: none"> ▶ The temperature is above or below the proper range for the meter. 	<ul style="list-style-type: none"> ▶ Move the meter to an area within the proper temperature range indicated for test strip use in the test strip package insert. Wait 5 minutes before turning on the meter. Repeat the test. Do not artificially heat or cool the meter.
E-59 Battery Empty	<ul style="list-style-type: none"> ▶ The batteries are extremely low. 	<ul style="list-style-type: none"> ▶ Insert new batteries. See Chapter 8, Maintenance.
E-60 Time/Date Error	<ul style="list-style-type: none"> ▶ The time and date settings may be incorrect. ▶ You have changed the batteries. 	<ul style="list-style-type: none"> ▶ Ensure the time and date are correct and adjust, if necessary. See Chapter 5, Changing Meter Settings.

Display Shows	Possible Cause(s)	Possible Solution(s)
HI bG Warning	<ul style="list-style-type: none"> ▶ Your blood glucose may be higher than the measuring range of the system. 	<ul style="list-style-type: none"> ▶ If you are experiencing any of the common symptoms of high blood glucose, contact your healthcare professional immediately. ▶ Treat your high blood glucose as recommended by your healthcare professional. ▶ Consider checking bG, ketones, and insulin. ▶ See the pump User Guide for additional solutions.
Incorrect Pump Time/Date	<ul style="list-style-type: none"> ▶ Pump time/date incorrect. 	<ul style="list-style-type: none"> ▶ Set time/date on the pump (see pump User Guide).
Infrequent Pump Communication	<ul style="list-style-type: none"> ▶ At least two weeks have passed since the meter and pump have communicated. 	<ul style="list-style-type: none"> ▶ Ensure the meter and pump have <i>Bluetooth</i> wireless technology turned on. ▶ Ensure the meter and pump are within communication range. ▶ If the low battery icon is displayed on the meter, the meter cannot communicate with the pump. Replace the batteries. ▶ It is important to use <i>Bluetooth</i> wireless technology communication between the meter and pump regularly if you utilize bolus advice.

Display Shows	Possible Cause(s)	Possible Solution(s)
Insulin Sensitivity	▶ Insulin sensitivity is outside of the acceptable meter range.	▶ Check your entries and contact your healthcare professional to determine the appropriate settings.
Invalid Bolus Advice Times	▶ The acting time value is less than the offset time.	▶ The acting time value must be set equal to or greater than the offset time. Reset the acting time value or revise the offset time.
Invalid Date	▶ The date entered is invalid (dates for reminders cannot be set to occur in the past).	▶ Re-enter date.
Invalid Hyper Values	▶ The hyper warning limit value must be greater than all of your target ranges in the time block settings.	▶ Reset the hyper warning limit or revise the target ranges in time blocks and re-enter the hyper warning limit. ▶ Enter a hyper warning limit that is above the target ranges of your time blocks. See Chapter 5, Changing Meter Settings.
Invalid Hypo Values	▶ The hypo warning limit value must be less than all of your target ranges in the time block settings.	▶ Reset the hypo warning limit or revise the target ranges in time blocks and re-enter the hypo warning limit. ▶ Enter a hypo warning limit that is below the target ranges of your time blocks. See Chapter 5, Changing Meter Settings.

Display Shows	Possible Cause(s)	Possible Solution(s)
Invalid PIN	<ul style="list-style-type: none"> ▶ The wrong PIN was entered. 	<ul style="list-style-type: none"> ▶ Select OK and re-enter the PIN shown on the pump display.
Invalid Record Time/Date	<ul style="list-style-type: none"> ▶ The time/date entered is invalid (Add Data entries cannot be set to occur in the future). 	<ul style="list-style-type: none"> ▶ Re-enter time/date.
Invalid Target Range	<ul style="list-style-type: none"> ▶ The lower target range value is above the upper target range value. 	<ul style="list-style-type: none"> ▶ Reset the target range values. ▶ Enter the correct lower target range value and upper target range value. See Chapter 5, Changing Meter Settings.
	<ul style="list-style-type: none"> ▶ The range selected conflicts with your hyper and/or hypo warning limit settings. 	<ul style="list-style-type: none"> ▶ Reset range or revise warning limit settings and re-enter range. ▶ Enter the correct lower target range value and upper target range value. See Chapter 5, Changing Meter Settings.
LO bG Warning	<ul style="list-style-type: none"> ▶ Your blood glucose may be lower than the measuring range of the system. 	<ul style="list-style-type: none"> ▶ Treat your low blood glucose as recommended by your healthcare professional. ▶ If you are experiencing any of the common symptoms of low blood glucose, contact your healthcare professional immediately.

Display Shows	Possible Cause(s)	Possible Solution(s)
Meter and Pump Not Paired	<ul style="list-style-type: none"> ▶ Meter and pump have not been paired. You cannot use the pump functions without pairing the meter and the pump. 	<ul style="list-style-type: none"> ▶ You must pair the meter and pump to use these features. ▶ For instructions on how to pair the meter and pump, see the Advanced Owner's Booklet.
Meter Battery Low	<ul style="list-style-type: none"> ▶ Battery power is low. 	<ul style="list-style-type: none"> ▶ Install new batteries. See Chapter 8, Maintenance.
No bG with Bolus	<ul style="list-style-type: none"> ▶ You have not tested your bG and are attempting to deliver a bolus. 	<ul style="list-style-type: none"> ▶ It is recommended to test bG before delivering insulin.
Pairing Failed	<ul style="list-style-type: none"> ▶ The attempt to pair the meter and pump was unsuccessful. 	<ul style="list-style-type: none"> ▶ Restart the pairing process. See the Advanced Owner's Booklet.
Pump Not Available	<ul style="list-style-type: none"> ▶ The pump is out of the communication range of the meter. 	<ul style="list-style-type: none"> ▶ Ensure the meter and pump have <i>Bluetooth</i> wireless technology turned on. ▶ Ensure the meter and pump are within communication range. ▶ If the low battery icon is displayed, the meter cannot communicate with the pump. Replace the batteries.

Display Shows	Possible Cause(s)	Possible Solution(s)
Test Strips Expiring	<ul style="list-style-type: none"> ▶ The test strips expire at the end of the current month. 	<ul style="list-style-type: none"> ▶ This message may appear when using a white code key in the meter. It means the test strips expire at the end of the current month. At the end of the month, discard the white code key and any remaining test strips. Insert a black code key. Make sure the time and date in the meter are correct. If you need a black code key, please contact Accu-Chek Customer Care Service Center at 1-800-688-4578. ▶ Ensure the time and date are correct and adjust, if necessary. See Chapter 5, Changing Meter Settings.
Time Mismatch	<ul style="list-style-type: none"> ▶ The time or date on the meter is more than five minutes different than the time or date on the pump. 	<ul style="list-style-type: none"> ▶ The meter time and date were changed to match the pump time. Ensure the time and date are correct. If the time or date are not correct, change the time and date on the pump.

NOTE

- For additional information on errors and warnings, see Chapter 6, Icons, Reminders, Warnings, and Errors.
- If you have a question or if you see any other error screen, please contact Accu-Chek Customer Care Service Center at 1-800-688-4578.

10 Technical Information

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10.1 Overview

This chapter provides you with important performance information regarding the meter.

10.2 Product Limitations

Please read the literature packaged with your test strips to find the latest information on product specifications and limitations.

10.3 Specifications

Blood volume	Refer to the test strip package insert.
Sample type	Fresh whole blood
Measuring time	Refer to the test strip package insert.
Measuring range	Refer to the test strip package insert.
Test strip storage conditions	Refer to the test strip package insert.
Meter storage conditions (with batteries inserted)	-4 °F to 122 °F
System operating conditions	Refer to the test strip package insert.
Relative humidity operating range	Refer to the test strip package insert.
Memory capacity	1,000 diary records
Automatic power off	2 minutes
Power supply	Three AAA batteries (recommended: alkaline)

Display	LCD
Dimensions	3.7 x 2.1 x 1 inches (LWH)
Weight	Approximately 3.6 oz with batteries inserted
Construction	Hand-held
Protection class	III
Meter type	The Accu-Chek Aviva Combo meter is suitable for continuous operation.
Control solution storage conditions	36 °F to 90 °F
Interface	IR; LED/IRED – Class 1

10.4 Product Safety Information

WARNING

Choking hazard. Small parts. Keep away from children under the age of 3 years.

Bluetooth Wireless Technology

The meter and the pump utilize *Bluetooth* wireless technology to communicate and transfer information. *Bluetooth* wireless technology is a form of radio frequency (RF) technology that operates in the unlicensed industrial, scientific, and medical band at 2.4 to 2.485 GHz. The RF channel utilized for communication between the meter and the pump is not an open channel. The meter can only communicate with the pump it is paired with; therefore, other *Bluetooth* wireless technology devices (e.g., cell phone, printer, etc.) cannot be paired with, communicate with, or access your personal information on the meter or the pump.

Radio Frequency Communication

FCC ID: WX3-361

The device complies with the United States Federal Communications Commission (FCC) standards. The device complies with FCC Part 15 Rules. Operation of the device is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Compliance with these guidelines means that under normal, daily circumstances the device should not affect the operation of other devices. In addition, the device should operate normally in the presence of other devices.

In the event there is interference from another device, it is recommended that you increase distance between meter and that device. You may also turn off the interfering device. In addition, you may turn off *Bluetooth* wireless technology on the meter and deliver insulin directly using the pump.

Changes or modifications to the device not expressly approved by Roche could void the user's authority to operate the device.

The device has been tested and found to comply with the limits for a Class B digital device. The device generates, uses, and can radiate radio frequency energy.

This equipment complies with FCC and IC radiation exposure limits set forth for an uncontrolled environment. This equipment is in direct contact with the body of the user under normal operating conditions. This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

Electromagnetic Compatibility

This meter meets the electromagnetic immunity requirements as per EN ISO 15197 Annex A. The chosen basis for electrostatic discharge immunity testing was basic standard IEC 61000-4-2. In addition, it meets the electromagnetic emissions requirements as per EN 61326. Its electromagnetic emission is thus low. Interference from the meter to other electrically driven equipment is not to be anticipated.

Performance Analysis

The Accu-Chek Aviva Combo system (Accu-Chek Aviva Combo meter with Accu-Chek Aviva Plus test strips) is calibrated with venous blood containing various levels of glucose. The reference values are obtained using the hexokinase method. For method comparison, the results were compared with results obtained using the hexokinase method with deproteinization (automatic analyzer). The hexokinase method is traceable to an NIST standard.

Measuring Principle

Refer to your test strip package insert for more information.

WARNING

- Strong electromagnetic fields may interfere with the proper operation of the meter. Do not use this meter close to sources of strong electromagnetic radiation.
- To avoid electrostatic discharge, do not use the meter in a very dry environment, especially one in which synthetic materials are present.

10.5 Disposing of the Meter, Strips, Lancets, and Batteries

WARNING

- Any product coming in contact with blood is considered contaminated (potentially infectious).*
- During normal testing any blood glucose meter may come in contact with blood. Lancing devices may also be considered sharps. Disposal of sharps is regulated by law in many jurisdictions.

Roche is committed to recycling and sustainability. Please consider the following points when disposing of your used testing materials:

- Comply with any laws or ordinances relating to the disposal of sharps and/or contaminated products. Contact your local health department or other appropriate authorities for proper handling and disposal of used meters, used test strips, used lancets, and used batteries.
- Consider recycling of the meters and batteries at an appropriate facility. Be aware the meter is potentially hazardous electronics scrap (e-scrap) and should be disposed of accordingly. The batteries are potentially hazardous also and should be disposed of accordingly.

- Decontaminate the meter before recycling or disposing.
- Users in professional environments (i.e., healthcare professionals) should follow their existing policies and procedures that govern the proper handling and disposal of potentially infectious waste, e-scrap, and batteries.

*29 CFR 1910.1030-Bloodborne pathogens (Code of Federal Regulations)

10.6 Warranty and Limited License

Accu-Chek Aviva Combo Meter Limited 4-Year Warranty

Roche Diabetes Care, Inc. warrants to the original purchaser of the meter that your Accu-Chek Aviva Combo meter will be free from defects in materials and workmanship for 4 years from the date of purchase. If during this 4-year period, the meter does not work properly because of a defect in materials or workmanship, Roche Diabetes Care, Inc. will replace it with a new Accu-Chek Aviva Combo meter or equivalent product free of charge. The warranty on the replacement meter will expire on the date of the original warranty expiration or 90 days after the shipment of a replacement system, whichever period is longer. The purchaser's exclusive remedy with respect to the Accu-Chek Aviva Combo meter shall be replacement.

This warranty does not apply to the performance of an Accu-Chek Aviva Combo meter that has been damaged by accident or has been altered, misused, tampered with, or abused in any way.

THE PRECEDING WARRANTY IS EXCLUSIVE OF ALL OTHER WARRANTIES, AND ROCHE DIABETES CARE, INC. MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, THE IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL ROCHE DIABETES CARE, INC. BE LIABLE TO THE PURCHASER OR ANY OTHER PERSON FOR ANY INCIDENTAL, CONSEQUENTIAL, INDIRECT, SPECIAL, OR PUNITIVE DAMAGES ARISING FROM OR IN ANY WAY CONNECTED WITH THE PURCHASE OR OPERATION OF THE METER OR ITS PARTS. NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, IF ANY IS IMPLIED FROM THE SALE OF THE METER, SHALL EXTEND FOR A LONGER DURATION THAN FOUR YEARS FROM THE DATE OF PURCHASE.

Some states do not allow limitations on how long an implied warranty will last or the exclusion of incidental or consequential damages, so the above limitation and exclusion may not apply to you. This warranty gives you specific legal rights, which vary from state to state.

Warranty Instructions

All requests for return of Accu-Chek Aviva Combo meters under the preceding warranty must be made to Accu-Chek Customer Care Service Center. You will be mailed a return authorization label, which must be affixed to your carton for shipping the system to Roche Diabetes Care, Inc. Cartons received without this label will be returned to you at your expense.

Customers experiencing difficulties should review the troubleshooting information in Chapter 9 of this booklet. Further inquiries should be directed to Accu-Chek Customer Care Service Center at 1-800-688-4578.

Be sure to fill out and mail the Warranty Card that comes with the Accu-Chek Aviva Combo system.

Limited License

CAUTION

A RESTRICTED LICENSE LIMITS USE OF THE ACCU-CHEK AVIVA COMBO SYSTEM—READ CAREFULLY THE LIMITATIONS RECITED BELOW.

The Accu-Chek Aviva Combo system (meter, including the code key, and test strips) and its use are protected by U.S. Patent Nos. 7,452,457 (expires 2-May-2026); 7,488,601 (expires 1-February-2026); 7,569,126 (expires 28-December-2026); and 7,604,721 (expires 12-August-2026). A license to use the Accu-Chek Aviva Combo system is required until the expiration of the last-to-expire patent listed above and is only granted when the Accu-Chek Aviva Combo meter is used with the Accu-Chek Aviva Plus test strips and Accu-Chek Aviva Plus code keys.

Accu-Chek Aviva Plus test strips are provided with a specifically matched Accu-Chek Aviva Plus code key. These test strips and code keys are specifically manufactured for operation with the Accu-Chek Aviva Combo meter. Use of other test strips with an unmatched code key or even with the matched code key supplied by another manufacturer may prevent or impair the proper function of the Accu-Chek Aviva Combo system.

Using the Accu-Chek Aviva Combo system indicates your acceptance of the restricted license to use the Accu-Chek Aviva Combo system only with Accu-Chek Aviva Plus test strips and the corresponding Accu-Chek Aviva Plus code key. If you do not agree to the terms and conditions of the restricted license, you may return, at the place of purchase, the unused Accu-Chek Aviva Combo system for a full refund. If you have any questions, please call the Accu-Chek Customer Care Services Center at 1-800-688-4578.

Except where prohibited by statute, all warranties covering the Accu-Chek Aviva Combo system are voided by use of the Accu-Chek Aviva Combo system with any test strips or code keys other than Accu-Chek Aviva Plus test strips or code keys.

Patent Information

U.S. Pat.:<https://go.roche.com/uspatents>

CAUTION

A RESTRICTED LICENSE LIMITS USE OF THE ACCU-CHEK FASTCLIX SYSTEM (device and lancet drums).
READ CAREFULLY THE LIMITATIONS RECITED BELOW.

The Accu-Chek FastClix system (device and lancet drums) and its use is protected by U.S. Patent No. 7,785,338 (expires 5-January-2026). A license to use the Accu-Chek FastClix system is required until the expiration of the patent listed above and is only granted when Accu-Chek FastClix lancet drums are used with the Accu-Chek FastClix device.

Accu-Chek FastClix lancet drums are high precision components that are produced to the close tolerances required for satisfactory operation with the Accu-Chek FastClix device. Use of other lancet drums with the Accu-Chek FastClix device may prevent or impair proper function of the Accu-Chek FastClix device.

Using the Accu-Chek FastClix device indicates your acceptance of the restricted license to use the Accu-Chek FastClix device only with Accu-Chek FastClix lancet drums. If you do not agree to the terms and conditions of the restricted license, you may return, at the place of purchase, the unused Accu-Chek FastClix device for a full refund. If you have any questions, please call the Accu-Chek Customer Care Services Center at 1-800-688-4578.

Except where prohibited by statute, all warranties covering the Accu-Chek FastClix device are voided by use of the Accu-Chek FastClix device with any lancet drums other than Accu-Chek FastClix lancet drums.

10.7 Additional Supplies

Test Strips

Accu-Chek Aviva Plus 50 ct test strips

Accu-Chek Aviva Plus 100 ct test strips

Control Solutions

Accu-Chek Aviva 2 level control solutions

Appendices

Appendix A: Abbreviations

Abbreviation	Definition
AM	Ante Meridiem (12-hour clock notation for “before noon”)
BE	Bread Equivalent (equal to 12 grams of carbohydrates)
bG	Blood Glucose
Carbs	Carbohydrates
CC	Carbohydrate Choice (equal to 15 grams of carbohydrates)
°F	Degrees Fahrenheit
FCC	Federal Communications Commission (United States)
g	Grams
GHz	Gigahertz
Hyper	Hyperglycemia (high blood glucose)
Hypo	Hypoglycemia (low blood glucose)

Abbreviation	Definition
IR	Infrared
ISO	International Organization for Standardization
KE	Kohlenhydrateinheit (equal to 10 grams of carbohydrates)
LCD	Liquid Crystal Display
mg/dL	Milligrams per Deciliter
N/A	Not Applicable
NIST	National Institute of Standards and Technology (United States)
PIN	Personal Identification Number
PM	Post Meridien (12-hour clock notation for “after noon”)
RF	Radio Frequency
SD	Standard Deviation
U	Units (bolus insulin units)

Appendix B: Carb Units




For carbohydrates, the following units of measure are available on the meter.

Abbreviation	Unit of Measurement	Gram Equivalent
g	Grams*	1 gram
KE	Kohlenhydrateinheit	10 grams
BE	Bread Equivalent	12 grams
CC	Carbohydrate Choice	15 grams

*Standard unit of measure in the U.S.

Appendix C: Explanation of Symbols

You may encounter the following symbols on the packaging, on the type plate (back of meter), and in the instructions for the Accu-Chek Aviva Combo meter, shown here with their meaning.

	Caution, refer to safety-related notes in the instructions for use accompanying this product.
	Global Trade Item Number
Rx only	Federal law (USA) restricts this device to sale by or on the order of a physician per 21 CFR 801.109.*
	1.5V AAA

* Code of Federal Regulations

Appendix D: Meter Settings and Range Limits

mg/dL

Data Type	Unit of Measurement	MIN	MAX	Increments	Default Setting
Acting Time	hours:minutes	1:30	8:00	0:15	4:00
Active Insulin	Units	0	99.9	0.1	N/A
bG Threshold (High)	mg/dL	120	350	1	Hyper Warning Limit
bG Threshold (Low)	mg/dL	50	100	1	Hypo Warning Limit
Carb Ratio (carbs)	grams	1	240	1	No entry (“--- g”)
	BE	0.1	20	0.1	No entry (“--- BE”)
	KE	0.1	24	0.1	No entry (“--- KE”)
	CC	0.1	16	0.1	No entry (“--- CC”)
Carb Ratio (insulin)	Units	0.1	50	0.1	1
Carbohydrates	grams	0	240	1	No entry (“--- g”)
	BE	0	20	0.1	No entry (“--- BE”)
	KE	0	24	0.1	No entry (“--- KE”)
	CC	0	16	0.1	No entry (“--- CC”)

Data Type	Unit of Measurement	MIN	MAX	Increments	Default Setting
Exercise 1 (health event)	%	-50	50	1	0
Exercise 2 (health event)	%	-50	50	1	0
Extended Bolus (insulin)	Units	0	50 ¹	0.1	N/A
Hyper Warning Limit	mg/dL	180	350	1	300
Hypo Warning Limit	mg/dL	50	90	1	70
Illness (health event)	%	-50	50	1	0
Insulin Sensitivity (bG)	mg/dL	1	999	1	No entry (“---mg/dL”)
Insulin Sensitivity (insulin)	Units	0.1	50	0.1	1
Meal Rise (bG)	mg/dL	50	200	1	50
Multiwave Bolus (insulin)	Units	0.2	50 ¹	0.1	N/A

Data Type	Unit of Measurement	MIN	MAX	Increments	Default Setting
Offset Time	hours:minutes	0:45	Acting Time	0:15	1:00
Premenstrual (health event)	%	-50	50	1	0
Snack Size (carbs)	grams	0	24	1	No entry (“--- g”)
	BE	0	2	0.1	No entry (“--- BE”)
	KE	0	2.4	0.1	No entry (“--- KE”)
	CC	0	1.6	0.1	No entry (“--- CC”)
Standard Bolus (insulin)	Units	0	50 ¹	0.1	N/A
Stress (health event)	%	-50	50	1	0
Target Range Upper Value	mg/dL	100	300	1	140
Target Range Lower Value	mg/dL	50	140	1	70

¹The maximum that can actually be delivered may be less due to the Accu-Chek Spirit Combo pump’s maximum insulin amount.

The following are the default settings for bG test reminders. To turn on a bG test reminder, see Setting Alarm Clock Reminders: bG Test, Other in Chapter 5, Changing Meter Settings.

Test Reminder	Default Time of Day
1	7:00 am
2	9:00 am
3	11:00 am
4	12:00 pm
5	2:00 pm
6	4:00 pm
7	7:00 pm
8	10:00 pm

The following are the default settings for the time blocks. Talk to your healthcare professional about setting up time blocks to help you manage your diabetes. To adjust the time blocks, see Chapter 5, Changing Meter Settings.

Time Block	12-Hour Format
1	12:00 am–5:30 am
2	5:30 am–11:00 am
3	11:00 am–5:00 pm
4	5:00 pm–9:30 pm
5	9:30 pm–12:00 am

Appendix E: References

1. FDA Public Health Notification: “Use of Fingerstick Devices on More than One Person Poses Risk for Transmitting Bloodborne Pathogens: Initial Communication, (2010). Update 11/29/2010” <http://www.fda.gov/MedicalDevices/Safety/AlertsandNotices/ucm224025.htm>. Accessed March 20, 2012.
2. CDC Clinical Reminder: “Use of Fingerstick Devices on More than One Person Poses Risk for Transmitting Bloodborne Pathogens, (2010).” <http://www.cdc.gov/injectionsafety/Fingerstick-DevicesBGM.html>. Accessed March 20, 2012.
3. Healthcare Infection Control Practices Advisory Committee (HICPAC), William A. Rutala, Ph.D., M.P.H., and David J. Weber, M.D., M.P.H. Centers for Disease Control and Prevention, 2008. “Guideline for Disinfection and Sterilization in Healthcare Facilities. Atlanta.”

Glossary

Term	Definition
7-day average	Includes results generated today and the previous 6 days.
Acting Time	The period of time from the start of the meal rise or the delivery of a correction bolus until your blood glucose level is expected to return to the target level.
Active Insulin	Bolus insulin that has been given to lower your blood glucose but has not yet been fully used.
Advice Options	Factors that influence bolus advice calculations including meal rise, snack size, acting time, and offset time.
After High bG Reminder	A reminder to retest your blood glucose. When enabled, this reminder occurs after a high blood glucose test result.
After Low bG Reminder	A reminder to retest your blood glucose. When enabled, this reminder occurs after a low blood glucose test result.
After Meal Reminder	A reminder to retest your blood glucose. When enabled, this reminder occurs after a meal. For this reminder to occur, you must enter carbohydrate data greater than the snack size amount.
Alarm	Audible or vibrating (silent) notification indicating a reminder, warning, or error.

Term	Definition
bG Test Reminders	Reminders to retest your blood glucose after a high blood glucose test result, after a low blood glucose test result, or after a meal.
bG Threshold	A bG test reminder setting. The upper limit for your blood glucose for a high bG test reminder and the lower limit for your blood glucose for a low bG test reminder.
Blood Glucose (bG)	The level of glucose in blood.
<i>Bluetooth</i> Wireless Technology	Wireless short-range communications technology which connects devices (such as meter and pump) in order to exchange information.
Bolus	The delivery of insulin all at once rather than slowly throughout the day, usually used to compensate for meals or high blood glucose.
Bolus Advice	When enabled, bolus advice provides recommendations on the amount of insulin for food intake and for correcting blood glucose levels that are not within your target range.
Bolus Advice Options	See Advice Options.
Bolus Delivery Start Delay	The Standard Bolus icon blinks for five seconds and then the meter communicates to the pump to begin delivery of the bolus amount. During this delay you are able to cancel the bolus delivery by pressing ▲ or ▼. The meter beeps and returns to the Pump Run screen.

Term	Definition
Carb Ratio	The amount of insulin necessary to account for a certain number of carbohydrates.
Carbohydrates (or Carbs)	Carbohydrate foods include sugars and starches. Carbohydrates can raise blood glucose levels slowly or rapidly. Carbohydrates are generally counted to calculate a bolus insulin dose.
Control Result	Value displayed on meter as the result of a control test. When the Control Result is within the range shown on the label of the test strip container, then the test strips and the meter are working properly.
Control Test	A meter test using control solution which lets you know that the meter and test strips are working properly.
Corrupt Result	bG test result that had an error.
Current Date	Refers to the date you set through the menu Settings and then in the Time/Date screen.
Current Time	Refers to the time you set through the menu Settings and then in the Time/Date screen.
Day	Period of time starting at 12:00 am and ending at 11:59 pm.
End Time	The end time of a time block.

Term	Definition
Extended Bolus	A bolus delivered over a period of time. It might be helpful during long meals or when you have meals that are digested slowly. The Extended Bolus may also be appropriate for people who have gastroparesis (delayed digestion). This option is available only when <i>Bluetooth</i> wireless technology is turned on and the meter and pump are communicating.
Health Events	A pop-up menu selection (exercise 1, exercise 2, stress, illness, premenstrual, or fasting) that allows information to be stored with a blood glucose test result or in a diary record and percentages that could adjust bolus advice recommendations for your current health status or activities.
HI	The test result is above the meter's measurement range.
Hyper	Hyperglycemia: an abnormally high level of glucose in the blood.
Hyper Warning Limit	When your blood glucose test result is above the hyper warning limit, a warning is displayed.
Hypo	Hypoglycemia: an abnormally low level of glucose in the blood.
Hypo Warning Limit	When your blood glucose test result is below the hypo warning limit, a warning is displayed.
Insulin Pump	A device that delivers a continuous supply of insulin into the body.

Term	Definition
Insulin Sensitivity	The amount of insulin necessary to lower your blood glucose by a certain amount.
Ketones	A by-product or waste product when your body burns stored fat for energy. Ketones are produced when there is not enough insulin to help your body use glucose for energy. Without enough insulin, glucose builds up in the blood.
Key Lock	A meter function which disables the keys (buttons) in order to prevent its unintended use.
LO	The test result is below the meter's measurement range.
Meal Rise	During or after meals, an increase in blood glucose levels is considered normal within a certain range, even through a meal bolus has been delivered. Enter the maximum increase in your blood glucose test result that is to be tolerated without an additional correction bolus.
Meal Time	During or after meals, an increase in blood glucose levels is considered normal within a certain range, even though a meal bolus has been delivered.
Meter	Blood glucose meter.

Term	Definition
Multiwave Bolus	A bolus designed to better simulate the body's insulin delivery. It combines an immediate bolus delivery followed by an Extended Bolus delivery. A Multiwave Bolus can be helpful when you have meals that include both rapidly and slowly absorbed carbohydrates. This option is available only when <i>Bluetooth</i> wireless technology is turned on and the meter and pump are communicating.
Note	Additional information.
Offset Time	Offset time takes into account the expected delay for the blood glucose level to actually fall during the acting time of insulin in the body. It describes the first time period within the acting time.
Paired	A pump and meter exclusively communicating and transferring information with each other.
Pump	See Insulin Pump.
Quick Bolus	A bolus delivery on the pump using the pump UP and DOWN keys. One key press equals one bolus increment (i.e., 0.1, 0.2, 0.5, 1.0, 2.0). See the pump User Guide for more information.
Remind After	A bG test reminder setting. The amount of time after a high blood glucose test result, after a low blood glucose test result, or after a meal you want the reminder to occur.

Term	Definition
Reminder	When enabled, reminders occur to remind you to test your blood glucose, to retest your blood glucose or of an event or activity.
Snack Size	The amount of carbohydrates that is not to be counted as a regular meal with the expected meal rise.
Snooze	Delay of some reminders for a defined time period.
Soft Keys	Two buttons under the meter display used to navigate through the user interface. Just above each soft key, the meter display shows the selection (i.e., Save, Cancel, Back, etc.).
Standard Bolus	A bolus that is immediately delivered to cover a food or a blood glucose correction. When Standard is selected, the bolus is delivered by the pump. This option is available only when <i>Bluetooth</i> wireless technology is turned on and the meter and pump are communicating.
Standard Deviation	As it is used in this owner's booklet, standard deviation measures how widely spread the bG test results are (e.g., if the bG test results are close to the bG average, then the standard deviation is small).
Start Time	The start time of a time block.
Target Range	The desired upper and lower limits of your blood glucose level considered acceptable as set by your healthcare professional.

Term	Definition
Time Blocks	Up to eight time periods within one day to facilitate your changing insulin needs throughout the day.
Time Range	The user sets the duration of time. There is a start and end time.
User	A person using the meter or pump.
Warning	Describes items and conditions that present hazards and may cause personal injury.
Warning Limits	See Hyper Warning Limit or Hypo Warning Limit.

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