

ACCU-CHEK® *Aviva Expert*



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ACCU-CHEK® *Aviva Expert*

BLOOD GLUCOSE METER

Standard Owner's Booklet



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Introduction

Whether the Accu-Chek Aviva Expert 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 centres. A listing is at the back of this booklet.

This booklet includes information about:

- Understanding your new Accu-Chek Aviva Expert system
- Testing your blood glucose
- Control testing
- Managing your data
- Changing the meter settings
- Understanding the icons, reminders, warnings and errors
- Care and maintenance
- Troubleshooting
- Technical information

The Accu-Chek Aviva Expert System

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

- Bolus advice calculation
- 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.

i NOTE

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

Intended Use

The Accu-Chek Aviva Expert system is intended for self-testing outside the body (in vitro diagnostic use) by people with diabetes as an aid to effective diabetes management.

The Accu-Chek Aviva Expert meter is also indicated for the management of diabetes by calculating an insulin dose or carbohydrate intake based on user-entered data.

Suitable for self-testing

The system includes (some items may be sold separately):

- **Accu-Chek Aviva Expert meter with three AAA batteries (already inserted) and a pre-inserted activation chip**
- **Accu-Chek Aviva test strips and activation chip**
- **Accu-Chek Aviva control solution**



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).

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. We have made it as simple as possible.

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 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.

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 the Accu-Chek Customer Careline on 0800 701 000 (UK) or 1 800 709 600 (ROI).
- On the meter display, the activation chip is referred to as a code key. Code key and activation chip are interchangeable and mean the same thing.
- Blood glucose and bG are interchangeable and mean the same thing.

1.2 The Accu-Chek Aviva Expert 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 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.

Activation Chip Slot

Activation chip is pre-inserted here.

Battery Door

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





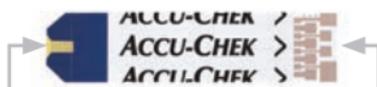
Batteries

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



Activation Chip

(for example)



Side View

Pre-inserted activation chip.

i NOTE

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

The meter has seven buttons and two soft keys.



i NOTE

- You hear a sound every time an active button/soft key is pressed unless you turned the sound off.
- Press  or insert a test strip to turn the meter on. 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 | ▶ Adjust the backlight level (low, medium, high). |
|  | Power | ▶ 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. |

1.3 Summary of Features

Display

The meter has a full-colour 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 7, Care and 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)

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.

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 five default time blocks.
- You may set up to eight 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 13.3 mmol/L and with a reminder time of 60 minutes.
- You have a blood glucose test result higher than 13.3 mmol/L, perhaps 15.0 mmol/L.
- 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” and “Injection,” 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,” or a “Lab Test.”
- For more information, see Chapter 5, Changing Meter Settings.

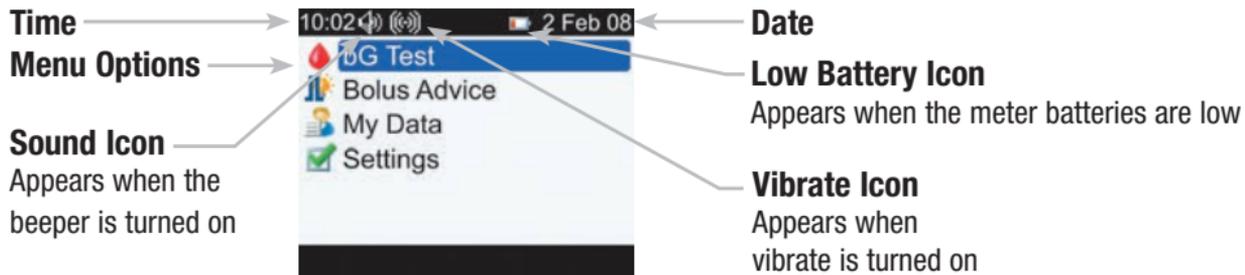
1.4 Screen Content and Navigation

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:



i NOTE

To select an item on a menu, press **▲** or **▼** to highlight (blue) the menu item and then press **○**.

Features on a screen:

Title Bar

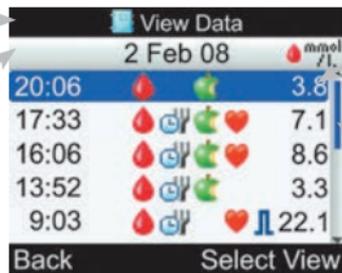
Primary menu title is displayed here.

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.



The screenshot shows a handheld device screen with a menu titled "View Data". The date is "2 Feb 08". The table contains five rows of data, with the first row highlighted in blue. A vertical scroll bar is visible on the right side. At the bottom, there are two soft key options: "Back" and "Select View".

| View Data | | | | |
|-----------|---|---|---|------|
| 2 Feb 08 | | | | |
| 20:06 |  |  |  | 3.8 |
| 17:33 |  |  |  | 7.1 |
| 16:06 |  |  |  | 8.6 |
| 13:52 |  |  |  | 3.3 |
| 9:03 |  |  |  | 22.1 |

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.

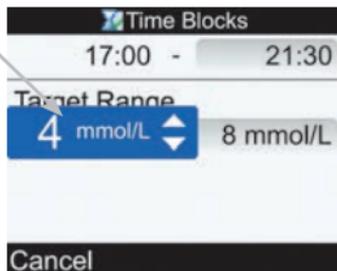
Right Soft Key Option

Press  to select the option above the button on the screen.

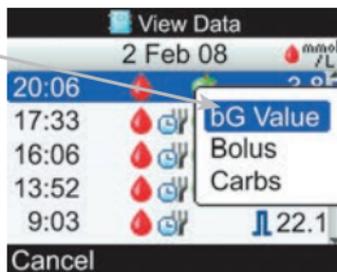
Information can be entered on some screens. Numerical entry fields appear as pop-up entry fields. When an option must be selected, it appears as a pop-up menu.

- 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



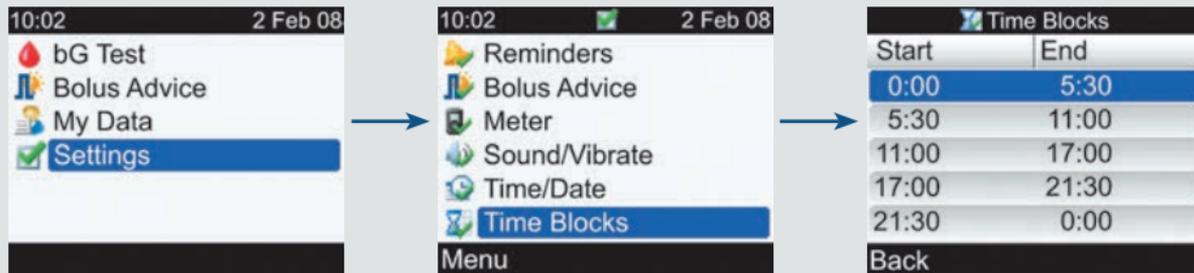
Pop-Up Menu



General Navigation Steps

To change the settings or enter information into the meter:

1.



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

Note specific to “Time Blocks” screen selection: If the bolus advice has been activated, then the “Time Blocks” selection is found under the “Bolus Advice” option.

2.

Time Blocks

0:00 - 5:30

Target Range

4 mmol/L - 8 mmol/L

Cancel Save

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

3.

Time Blocks

0:00 - 5:30

Target Range

4 mmol/L - 8 mmol/L

Cancel

- ▶ 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.

2 Testing Your Blood Glucose

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2.1 Overview

It is important to understand how to perform a blood glucose test properly. You can perform a blood glucose test from your fingertip.

NOTE

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

2.2 Using the Accu-Chek Aviva Expert System

- Only use Accu-Chek Aviva test strips.
- Store the unused test strips in their original container.
- Immediately after you take a test strip out, 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.
- Store the test strip container and the meter in a cool, dry place, such as a bedroom. Do not freeze. Refer to the test strip package insert for specifications on storage conditions.
- Use test strips at temperatures within the range indicated in the test strip package insert.
- Do not apply blood or control solution to the test strip before you insert it into the meter.



WARNING

Do not store test strips in high heat and moisture areas (bathroom or kitchen). Heat and moisture can damage 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 the meter with a pre-inserted activation chip, a test strip, and a finger pricker.



WARNING

- The finger pricker is intended for patient self-monitoring by an individual person only. It must not be used to collect blood from more than one person as it does not incorporate any features to guard against cross-infection.
- Do not change your treatment because of one blood glucose test result.
- NEVER ignore symptoms of high or low blood glucose.



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 finger pricker for a fingertip test.

2.



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

3.



- ▶ Insert a 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.



Finger pricking:

- ▶ Obtain a blood sample with the finger pricker.

6.



Finger pricking:

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

7.



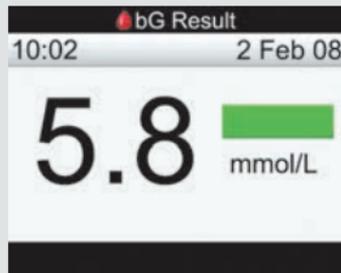
- ▶ Touch the blood drop to the **front edge** of the yellow window of the test strip. Do not put blood on top of the test strip.

8.



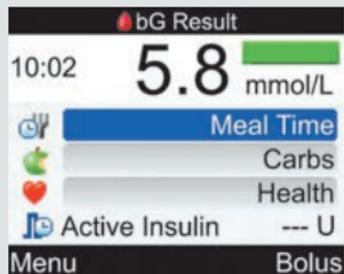
When the test strip has enough blood, the Analyzing screen appears.

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.

i 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.

i 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 test time '10:02' is on the left, and the blood glucose value '5.8' is in the center, with 'mmol/L' to its right. A green progress bar is positioned above the '5.8' value. Below the main display are four menu items: 'Meal Time' (with a fork and knife icon), 'Carbs' (with a green apple icon), 'Health' (with a red heart icon), and 'Active Insulin' (with a blue insulin icon). At the bottom, there is a 'Menu' bar with 'Bolus' selected. Arrows point from text labels on the left and right to these specific elements.

Test Time → 10:02

Meal Time → Meal Time

Carbohydrates → Carbs

Health Event → Health

Active Insulin → Active Insulin --- U

Displayed only if bolus advice is activated → Menu Bolus

Status Bar → bG Result

Blood Glucose Test Result → 5.8 mmol/L

Unit of Measure → mmol/L

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 Fasting, Exercise 1, Stress, Illness, Exercise 2 or Premenstrual 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.

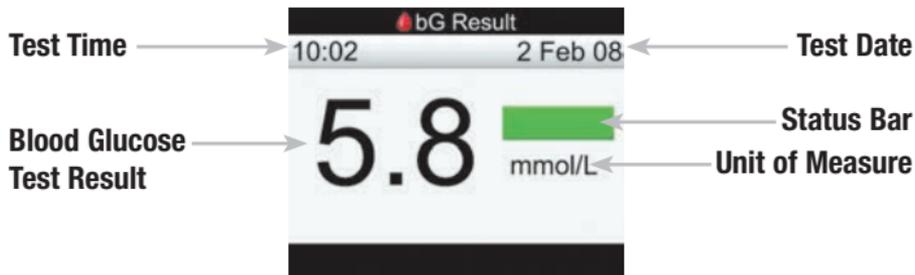
For more information about bolus advice, see the Advanced Owner's Booklet.

i 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.

2.5 Understanding Blood Glucose Test Results

The bG Result screen displays the following information:

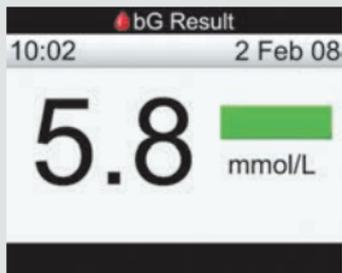


i NOTE

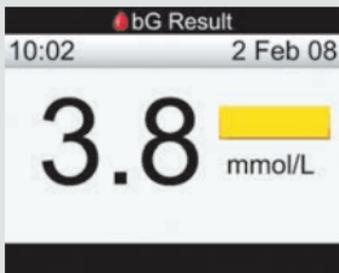
- If the dosed test strip is removed from the meter before results or errors are displayed, a blood glucose test result will not appear.
- After approximately 3 seconds, the meter displays the detailed bG Result screen (see Section 2.4, Detailed Blood Glucose Test Results).

Status Bar

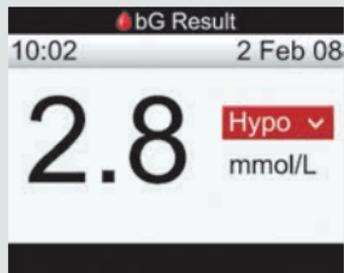
The status bar on the bG Result screen indicates how the result compares to the target blood glucose range for the current time block. The following are status bar descriptions with sample displays:



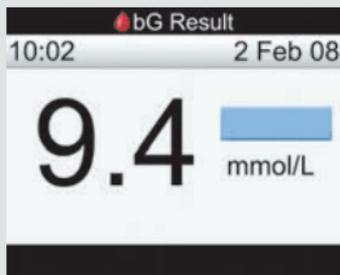
Green indicates the result is within the target range for the current time block.



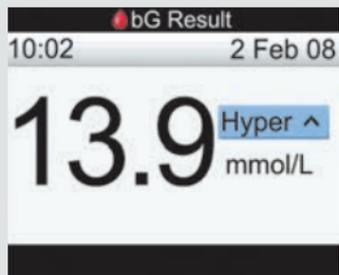
Yellow indicates the result is below the target range for the current time block. The result is not below the hypo warning limit.



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.



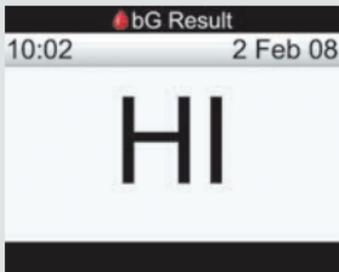
Light blue with "Hyper" indicates the result is above the hyper warning limit.

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 how 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 test with a new test strip. |
| 4. Were the test strips stored in a cool, dry place? | Repeat the test with a properly stored test strip. |
| 5. Did you follow the directions? | Read Chapter 2, Testing Your Blood Glucose, and test again. If you still have problems, contact the Accu-Chek Customer Careline on 0800 701 000 (UK) or 1 800 709 600 (ROI). |
| 6. Are the meter and test strips working properly? | Perform a control test. See Chapter 3, Control Testing, for instructions. |
| 7. Are you still unsure of the problem? | Contact the Accu-Chek Customer Careline on 0800 701 000 (UK) or 1 800 709 600 (ROI). |

After performing a control test and repeating a blood glucose test, if your blood glucose test results still do not reflect how 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. Hyperglycemia and hypoglycemia may include, but are not limited to the following symptoms:

- 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.

3 Control Testing

| | |
|--|----|
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| 3.2 Why Perform Control Tests | 55 |
| 3.3 About the Control Solutions | 56 |
| 3.4 Performing a Control Test | 57 |
| 3.5 Understanding Control Test Results | 63 |

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:

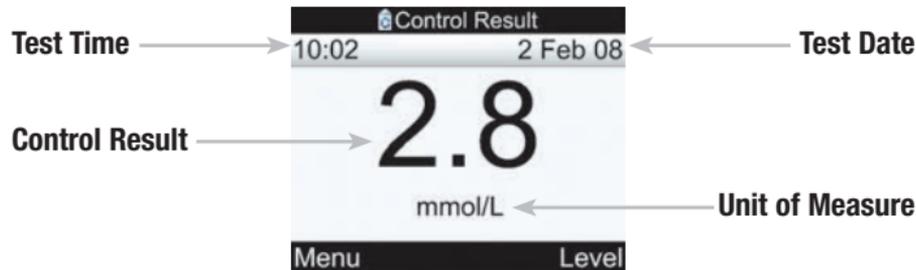
- You open a new test strip box.
- You left the test strip container open.
- You want to check the meter and test strips.
- Your test strips were stored in extreme temperatures, humidity, or both.
- You dropped the meter.
- Your test result does not match how you feel.
- You want to check if you are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

3.3 About the Control Solutions

- Only use Accu-Chek Aviva control solutions.
- The meter automatically recognises 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 the meter with a pre-inserted activation chip, 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 a 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.

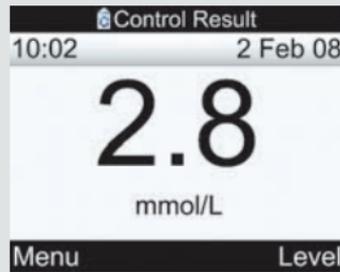
8.



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.

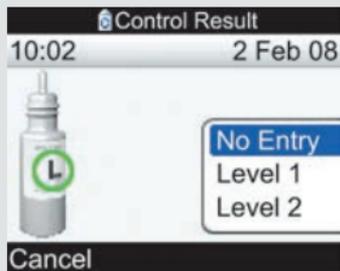
9.



The control result appears on the display.

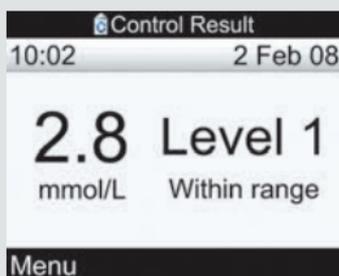
- ▶ Select Level to display the control solution level pop-up menu.

10.



- ▶ Select the control solution level and press .

11.



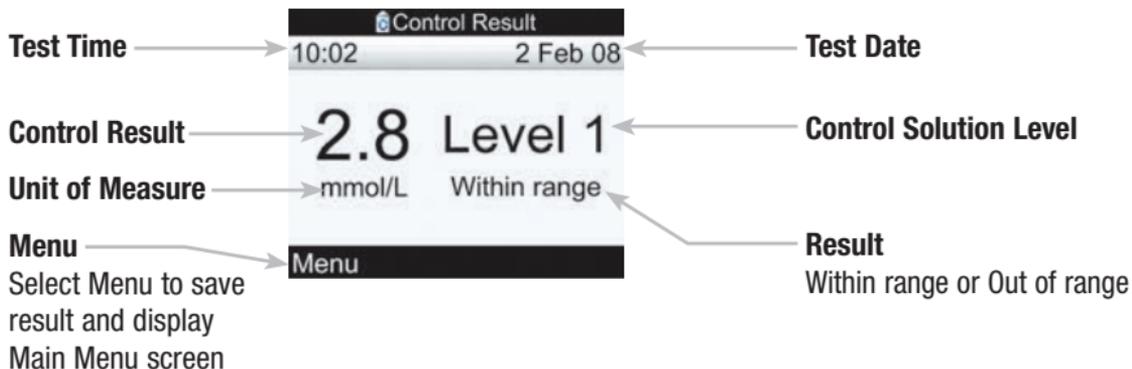
- ▶ Remove and discard the test strip.
- ▶ For information on understanding control test results, proceed to the next section, or select Menu to save this result and display the Main Menu screen.

 **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:

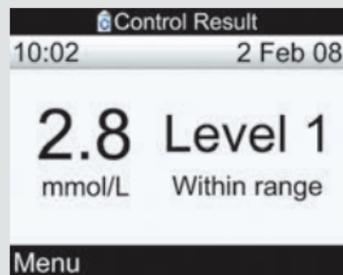




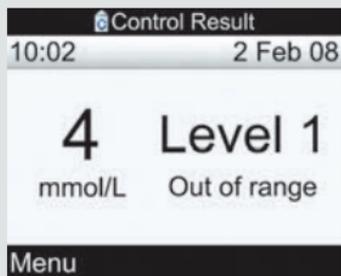
- ▶ The label on your test strip container shows the acceptable ranges for both the Level 1 and the Level 2 control solutions. The test result you get should be inside this range. Ensure you select and compare the test result to the correct level of control. For the level selected, the meter displays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

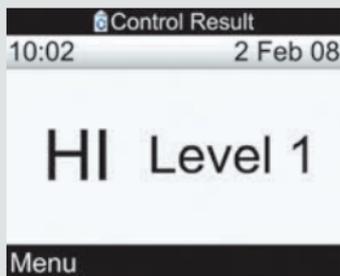
Example Control Results



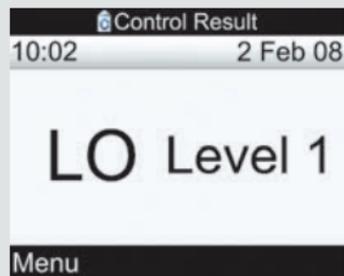
If the control test result is within the acceptable range, “Within range” appears on the detailed Control Result screen.



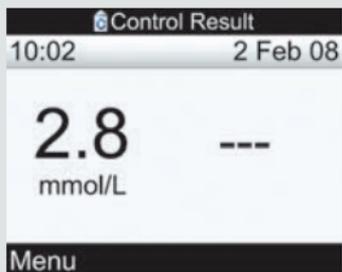
If the control test result is outside of the acceptable range, "Out of range" appears on the detailed Control Result screen.



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 your control test result is not inside the acceptable range, here are some things you can do to solve the problem:

| Troubleshooting Checks | Actions |
|---|--|
| 1. Were either 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. Contact the Accu-Chek Customer Careline on 0800 701 000 (UK) or 1 800 709 600 (ROI) if you still have problems. |
| 7. Did you chose the correct control solution level, either 1 or 2, when you performed the 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 the Accu-Chek Customer Careline on 0800 701 000 (UK) or 1 800 709 600 (ROI). |

4 Managing Your Data

| | |
|---|-----|
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| 4.3 Adding New Data | 81 |
| 4.4 Reporting Your Data | 84 |
| 4.5 Downloading Your Data to a Computer | 123 |

4.1 Overview

Analysing 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 Expert 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 colours 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.

i 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 the Accu-Chek Customer Careline on 0800 701 000 (UK) or 1 800 709 600 (ROI).
- 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 7, Care and 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 the Accu-Chek Customer Careline on 0800 701 000 (UK) or 1 800 709 600 (ROI).
- 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 test results. The list includes the time of the test, a blood glucose test icon (red drop), a meal time icon (green plate), a health event icon (heart), a bolus icon (blue 'I'), and the blood glucose test result in mmol/L. The unit of measure is shown as 'mmol/L' in the top right corner. The bottom of the screen has 'Back' and 'Select View' buttons.

| Time of Blood Glucose Test | Blood Glucose Test Icon | Meal Time Icon | Health Event Icon | Bolus Icon | Blood Glucose Test Result | Unit of Measure |
|----------------------------|-------------------------|----------------|-------------------|------------|---------------------------|-----------------|
| 20:06 | Red drop | Green plate | Heart | Blue 'I' | 3.8 | mmol/L |
| 17:33 | Red drop | Green plate | Heart | Blue 'I' | 7.1 | |
| 16:06 | Red drop | Green plate | Heart | Blue 'I' | 8.6 | |
| 13:52 | Red drop | Green plate | Heart | Blue 'I' | 3.3 | |
| 9:03 | Red drop | Green plate | Heart | Blue 'I' | 22.1 | |

Date of Record(s) → 2 Feb 08

Time of Blood Glucose Test → 20:06

Blood Glucose Test Icon → Red drop icon

Meal Time Icon → Green plate icon

Unit of Measure → mmol/L

Blood Glucose Test Result → 3.8

Carbs Icon → Green plate icon

Health Event Icon → Heart icon

Bolus Icon → Blue 'I' icon

Select View → Change meter display between blood glucose, bolus and carbs views

i 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.

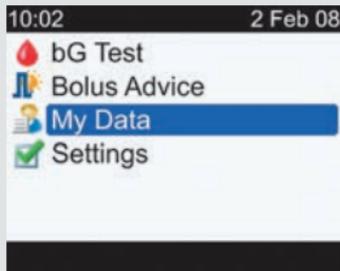
Refer to the following for icon descriptions:

| 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. |
|  | Bolus Insulin | Bolus insulin entered into the diary record. |
|  | Basal Insulin | Basal insulin is entered into the diary record. |

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

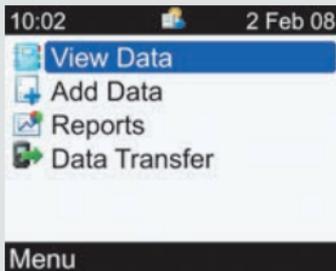
Main Menu > My Data > View Data

1.



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

2.



- ▶ Select View Data and press .

3.

Blood Glucose View:

| View Data | | | | |
|-----------|--|--|--|--------|
| 2 Feb 08 | | | | mmol/L |
| 20:06 | | | | 3.8 |
| 17:33 | | | | 7.1 |
| 16:06 | | | | 8.6 |
| 13:52 | | | | 3.3 |
| 9:03 | | | | 22.1 |

Back Select View

Bolus View:

| View Data | | | | |
|-----------|--|--|--|---|
| 2 Feb 08 | | | | U |
| 20:06 | | | | |
| 17:33 | | | | |
| 16:06 | | | | |
| 13:52 | | | | |
| 9:03 | | | | 5 |

Back Select View

Carbs View:

| View Data | | | | |
|-----------|--|--|--|----|
| 2 Feb 08 | | | | g |
| 20:06 | | | | 60 |
| 17:33 | | | | 60 |
| 16:06 | | | | 20 |
| 13:52 | | | | 60 |
| 9:03 | | | | |

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.



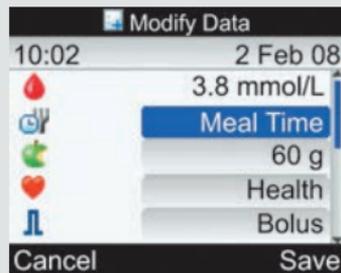
- ▶ Press ◀ to view the previous record or press ▶ to view the next (newer) record.

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.

i NOTE

- To cancel changes or return to the View Detail screen, select Cancel.
- Scroll down to select the basal entry field.

The following fields cannot be modified with the specified condition:

| Fields | Cannot be modified if the ... |
|---|--|
| Bolus | Blood glucose test result was below the hypo warning limit |
| Meal Time | Record has no blood glucose value |
| Meal Time, Carbs, Health Event, Bolus and Basal | Record has been used for bolus advice |

4.3 Adding New Data

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

The image shows two screenshots of the 'Add Data' screen. The top screenshot shows the time and date entry fields. The bottom screenshot shows the scrollable list of entry fields after scrolling down.

Time Entry Field → 10 : 02
HH MM

Date Entry Field → 2 Feb 08
DD MMM YY

Carbs Entry Field

Health Entry Field

Bolus Entry Field

Basal Entry Field

Cancel Save

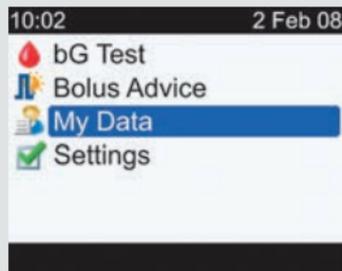
scroll down

Cancel Save

Save
Appears once data has been entered to an entry field

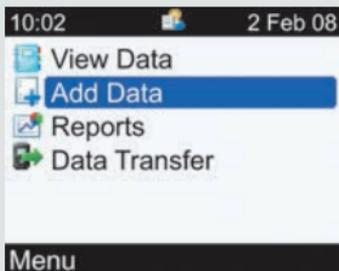
Main Menu > My Data > Add Data

1.



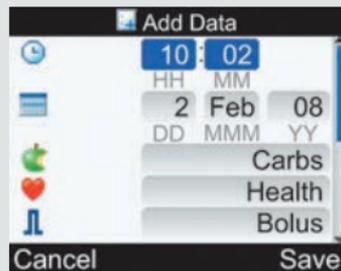
- ▶ From the Main Menu, select My Data and press .

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.

i 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

| |  mmol/L | SD | Tests |
|-----------|--|-----|-------|
| Overall | 9.1 | 4.5 | 37 |
| Pre Meal | 7.6 | 3.7 | 13 |
| Post Meal | 11.2 | 7.1 | 5 |
| Bedtime | 3.1 | | 1 |
| Other | 9.7 | 2.8 | 2 |
| Back | | | |

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

i NOTE

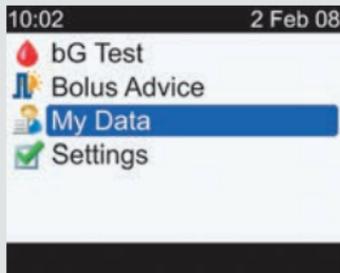
- If data are not available to calculate averages, the No Data Available screen is displayed.
- Standard deviation measures how much the blood glucose test results are scattered around the blood glucose average. A low standard deviation means the blood glucose test results are tightly clustered around 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).

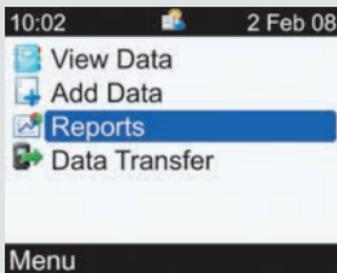
Main Menu > My Data > Reports > bG Averages

1.



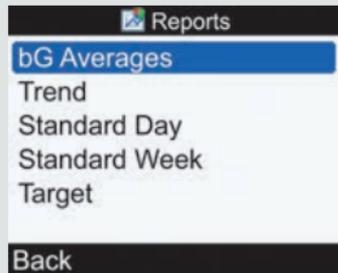
- ▶ From the Main Menu, select My Data and press .

2.



- ▶ Select Reports and press .

3.



- ▶ Select bG Averages and press .

4.

| Last 7 days | | | |
|-------------|--------|-----|-------|
| | mmol/L | SD | Tests |
| Overall | 9.1 | 4.5 | 37 |
| Pre Meal | 7.6 | 3.7 | 13 |
| Post Meal | 11.2 | 7.1 | 5 |
| Bedtime | 3.1 | | 1 |
| Other | 9.7 | 2.8 | 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.

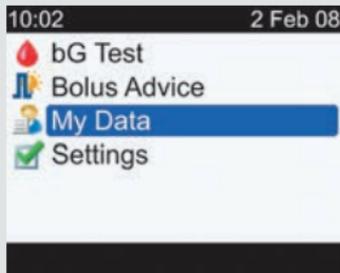
To return to the Reports screen, select Back.

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).

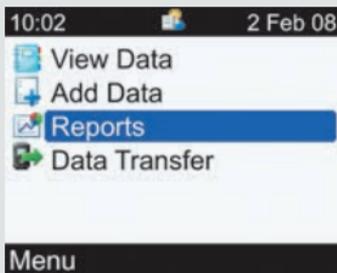
Main Menu > My Data > Reports > Trend

1.



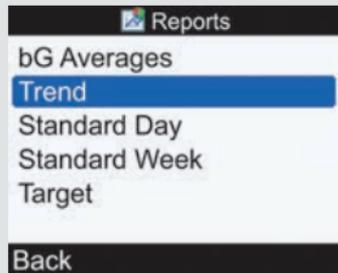
- ▶ From the Main Menu, select My Data and press .

2.



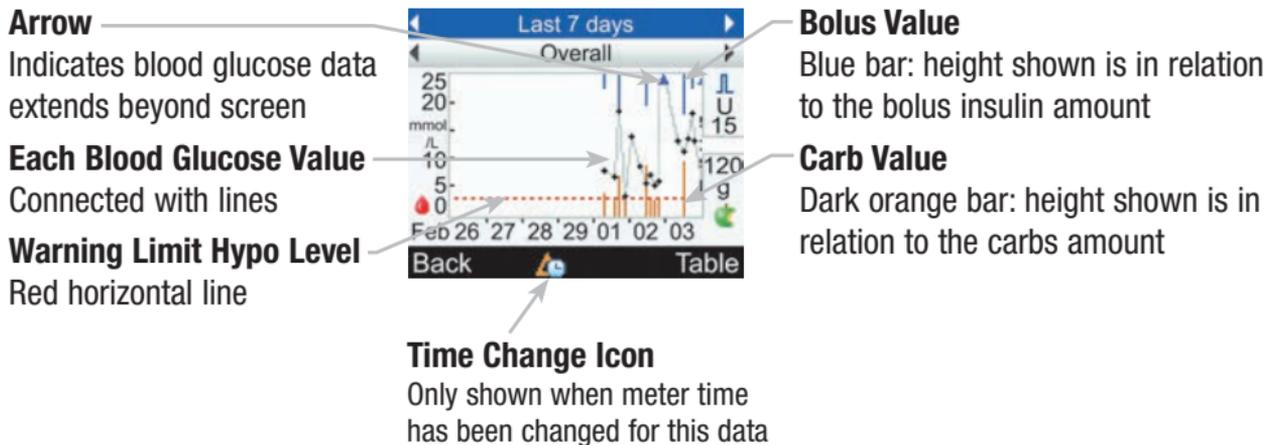
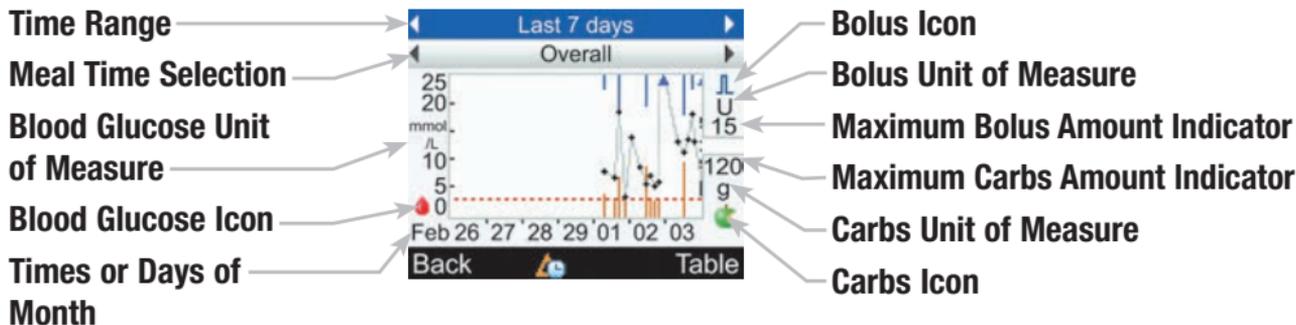
- ▶ Select Reports and press .

3.



- ▶ Select Trend and press .

Trend Graph Screen



 **NOTE**

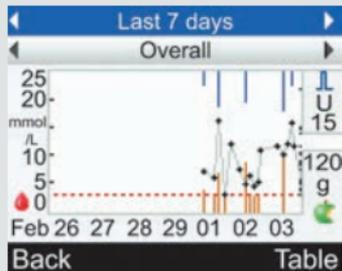
- If data are not available to display the trend graph, the No Data Available screen is displayed.
- Trend graphs do not include corrupt results or control results.
- If  (time change icon) is shown at the bottom of the Trend Graph screen, the time and date of one or more data points in the trend graph 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.
 2. The meter time is changed ahead 1 hour.
 3. The bG data on the trend graph is shown at 10:00.

i NOTE

- 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.

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 \square to display the Table (proceed to the next section for more information).

To return to the Reports screen, select Back.

i 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 —————> mmol/L

Carbs Icon with Carbs Unit of Measure —————> g

Bolus Icon with the Bolus Unit of Measure —————> U

Time Change Icon —————> [Clock Icon]

| Time | Blood Glucose (mmol/L) | Carbs (g) | Bolus (U) |
|-------|------------------------|-----------|-----------|
| 20:06 | 3.8 | 66 | |
| 17:33 | 7.1 | 60 | |
| 16:06 | 8.6 | 20 | |
| 13:52 | 3.3 | 60 | |

Back [Clock Icon] Graph

Time Change Icon
Only shown when meter time has been changed for this data

i 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.
 2. The meter time is changed ahead 1 hour.
 3. The bG data on the trend table is shown at 10:00.
- 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 | | |
| 2 Feb 08 | mmol/L | g |
| 20:06 | 3.8 | 66 |
| 17:33 | 7.1 | 60 |
| 16:06 | 8.6 | 20 |
| 13:52 | 3.3 | 60 |

Back Graph

- ▶ When there are multiple records, press \triangle or ∇ 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 \triangle to highlight the time range selection field (top of screen). Press either \triangleleft or \triangleright 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 \triangle or ∇ to highlight the meal time selection field (immediately below the time range which is at the top of the screen). Press either \triangleleft or \triangleright 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.

i NOTE

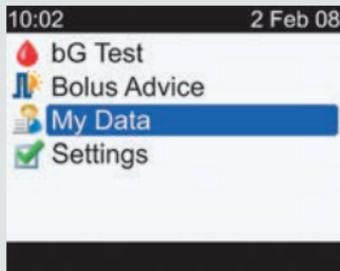
The meter saves the current settings (time range, meal time and table view) when you select Back or when the meter powers off.

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).

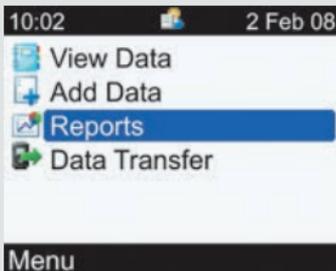
Main Menu > My Data > Reports > Standard Day

1.



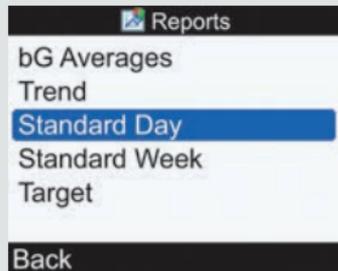
- ▶ From the Main Menu, select My Data and press .

2.



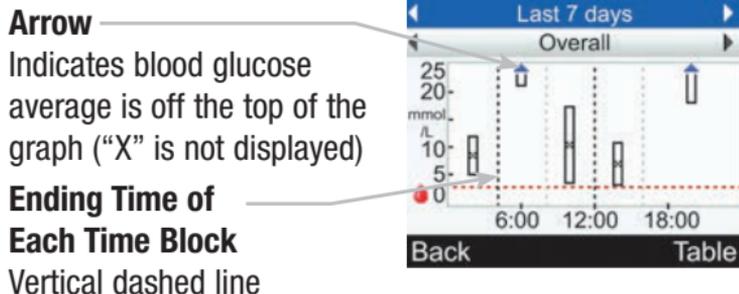
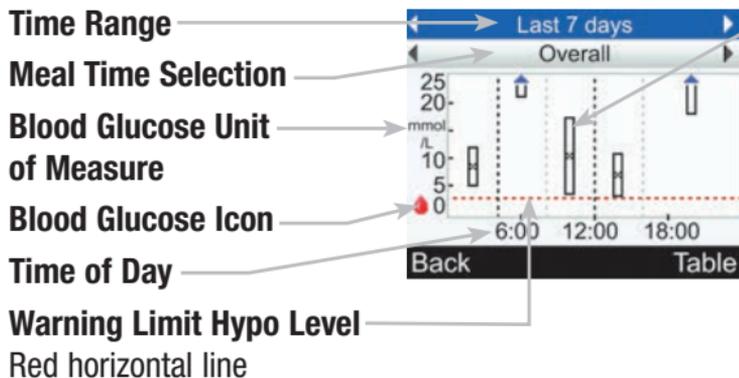
- ▶ Select Reports and press .

3.



- ▶ Select Standard Day and press .

Standard Day Graph Screen



Box for Each Time Block

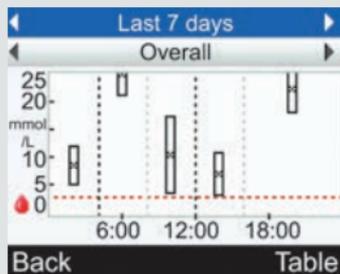
- "X" in centre of box indicates the average of all blood glucose test results for the selected criteria.
- The top of the box indicates 1 standard deviation above the average and the bottom of the box indicates 1 standard deviation below the average. The box is not displayed if there are not enough 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.

i 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 \blacktriangle to highlight the time range selection field (top of the screen). Press either \blacktriangleleft or \blacktriangleright 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 \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 \square 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 turns off.

Standard Day Table Screen

The screenshot shows a table with columns for Time Block, Blood Glucose Average (mmol/L), Standard Deviation (SD), and Number of Tests. The table is titled 'Overall' and is part of a 'Last 7 days' view. The data is as follows:

| Time Block | Blood Glucose Average (mmol/L) | Standard Deviation (SD) | Number of Tests |
|---------------|--------------------------------|-------------------------|-----------------|
| 0:00 - 4:00 | 8.7 | 3.7 | 3 |
| 4:00 - 8:00 | 8.1 | 2.6 | 4 |
| 8:00 - 12:00 | 11.1 | 8.1 | 4 |
| 12:00 - 16:00 | 7.4 | 4.1 | 9 |

At the bottom of the screen, there are two buttons: 'Back' and '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.

| | mmol/L | SD | Tests |
|---------------|--------|-----|-------|
| 0:00 - 4:00 | 8.7 | 3.7 | 3 |
| 4:00 - 8:00 | 8.1 | 2.6 | 4 |
| 8:00 - 12:00 | 11.1 | 8.1 | 4 |
| 12:00 - 16:00 | 7.4 | 4.1 | 9 |

Back Graph

- ▶ Press \triangle or ∇ to scroll screen.

2.

- ▶ To display a standard day table for another time range (last 7, 14, 30, 60 or 90 days), press \triangle to highlight the time range selection field (top of screen). Press either \triangleleft or \triangleright 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 \triangle or ∇ to highlight the meal time selection field (immediately below the time range which is at the top of the screen). Press either \triangleleft or \triangleright 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.

i NOTE

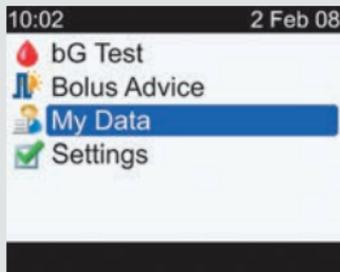
The meter saves the current settings (time range, meal time and table view) when you select Back or when the meter turns off.

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).

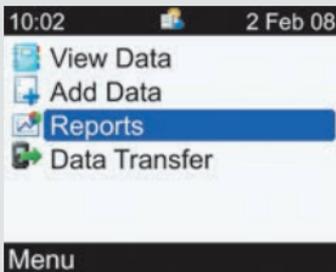
Main Menu > My Data > Reports > Standard Week

1.



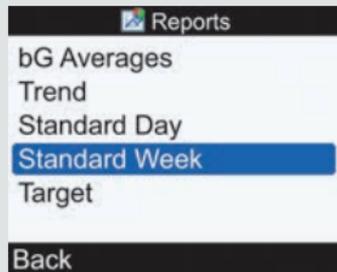
- ▶ From the Main Menu, select My Data and press .

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)

Time Range

Meal Time Selection

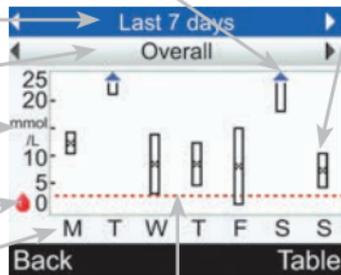
Blood Glucose Unit of Measure

Blood Glucose Icon

Day of Week

Warning Limit Hypo Level

Red horizontal line



Box for Each Time Block

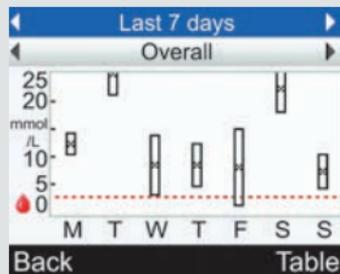
- "X" in centre of box indicates the average of all blood glucose test results for the selected criteria.
- The top of the box indicates 1 standard deviation above the average and the bottom of the box indicates 1 standard deviation below the average. The box is not displayed if there are not enough 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.

i 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.

i NOTE

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

Standard Week Table Screen

Time Range ———→ **Last 7 days** ———→ **Standard Deviation (SD)**

Meal Time Selection ———→ **Overall**

Day of Week ———→

Blood Glucose Average ———→

Number of Tests ———→

| |  mmol/L | SD | Tests |
|-----------|--|-----|-------|
| Monday | 12.4 | 2.2 | 5 |
| Tuesday | 10.1 | 3.9 | 5 |
| Wednesday | 8.7 | 5.5 | 5 |
| Thursday | 8.8 | 4.0 | 5 |

Back **Graph**

i 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 | | | |
| | mmol/L | SD | Tests |
| Monday | 12.4 | 2.2 | 5 |
| Tuesday | 10.1 | 3.9 | 5 |
| Wednesday | 8.7 | 5.5 | 5 |
| Thursday | 8.8 | 4.0 | 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 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.

i NOTE

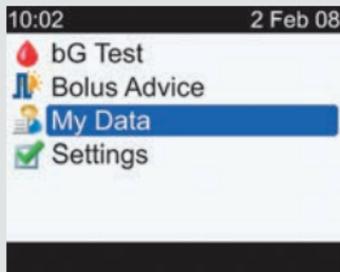
The meter saves the current settings (time range, meal time and table view) when you select Back or when the meter turns off.

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).

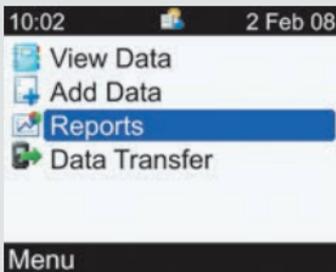
Main Menu > My Data > Reports > Target

1.



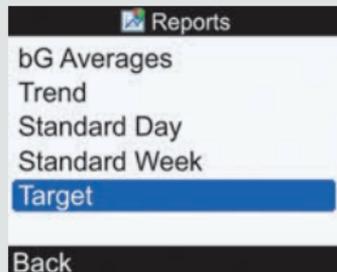
- ▶ From the Main Menu, select My Data and press .

2.



- ▶ Select Reports and press .

3.



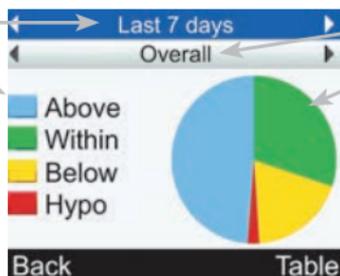
- ▶ Select Target and press .

Target Graph Screen

Time Range

Legend

Blood glucose test result categories



Meal Time Selection

Pie Chart

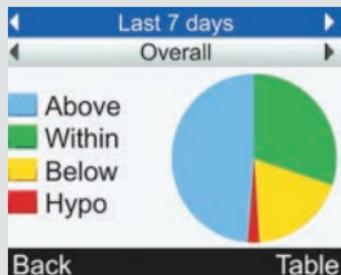
Represents the percentages for the blood glucose test result categories

i 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.

i NOTE

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

Target Table Screen

Time Range

Legend

Blood glucose test result categories



Meal Time Selection

Percentage of Occurrence

i 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.

| Last 7 days | |
|-------------|-----|
| Overall | |
| Above | 48% |
| Within | 32% |
| Below | 18% |
| Hypo | 2% |

Back Graph

- ▶ 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 turns off.

4.5 Downloading Your Data to a Computer

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

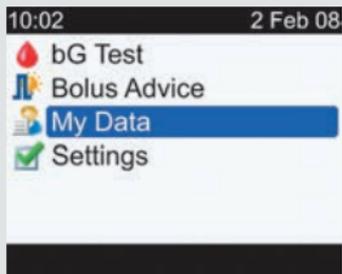
1.

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

2.

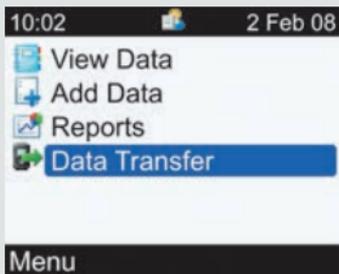
- ▶ Run the software programme and follow the instructions about how to download information. Ensure the software is ready to accept data from the meter.

3.



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

4.



- ▶ Select Data Transfer and press .

5.



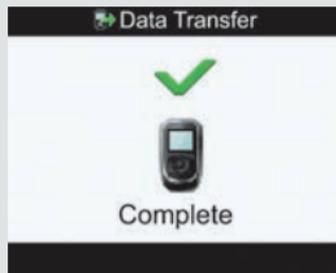
- ▶ Locate the infrared (IR) window on the top of the meter.
- ▶ Locate the IR window on the computer's infrared cable.
- ▶ Point the two IR windows toward each other. They should be 3 to 10 cm apart.

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.

i NOTE

If the data did not transfer successfully, turn the meter off, turn the meter back on, and try again. If you still have problems, contact the Accu-Chek Customer Careline on 0800 701 000 (UK) or 1 800 709 600 (ROI).

5 Changing Meter Settings

| | |
|---|-----|
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5.1 Overview

You have the flexibility to change the Accu-Chek Aviva Expert 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.

NOTE

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

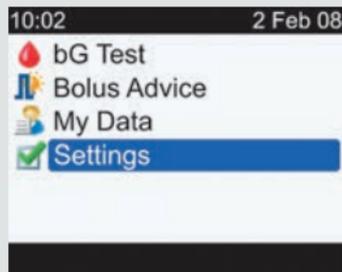
5.2 Setting bG Test Reminders: After High bG, After Low bG, After Meal

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 turns off.
 - 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.

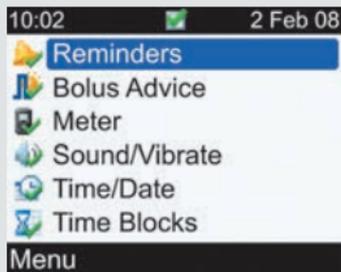
Main Menu > Settings > Reminders > bG Test Reminders

1.



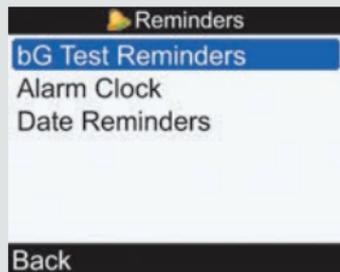
From the Main Menu, select Settings and press .

2.



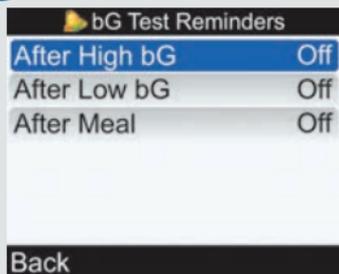
▶ Select Reminders and press .

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:

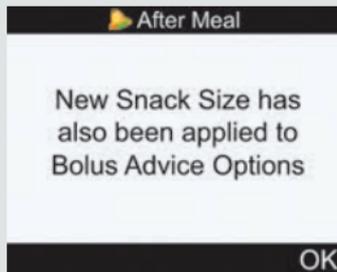
- ▶ Select the Snack Size entry field and press .
- ▶ Set the snack size amount and press .

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, Injection, Other

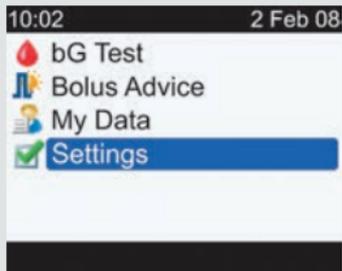
Alarm clock reminders are a helpful way to remind you to test your blood glucose, or for any other daily appointment. You can set up to eight reminders per day.

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, or no basal insulin data was entered for an Alarm Clock Injection Reminder), the reminder is displayed when the meter turns off.
 - Dismiss the reminder by pressing . Reschedule (snooze) the reminder for 15 minutes by pressing .
 - Alarm Clock Injection Reminder: Dismiss the reminder by entering basal insulin data.
 - 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.
- When you enter basal insulin data, the meter dismisses Alarm Clock Injection Reminders which are pending within the next 30 minutes.
- For more information, see Chapter 6, Icons, Reminders, Warnings and Errors.

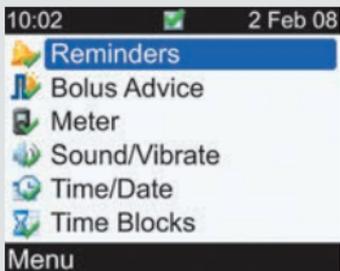
Main Menu > Settings > Reminders > Alarm Clock

1.



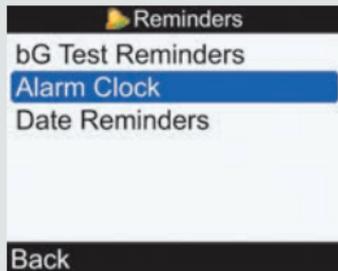
- ▶ From the Main Menu, select Settings and press .

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, Injection 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, Injection 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.

i 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 and “MM” is minutes.
- If you tested within 30 minutes of a bG Test Reminder, the reminder does not occur.
- If you entered basal insulin data within 30 minutes of an Injection 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

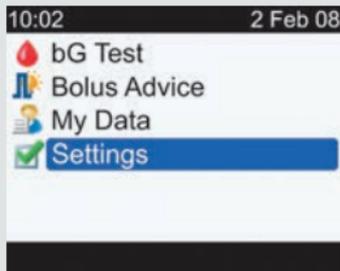
Date reminders are a helpful way to remind you of an upcoming Dr. Visit or Lab Test.

Date Reminders: Important Information

- Displayed when you turn the meter on 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.

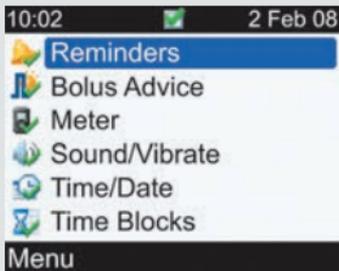
Main Menu > Settings > Reminders > Date Reminders

1.



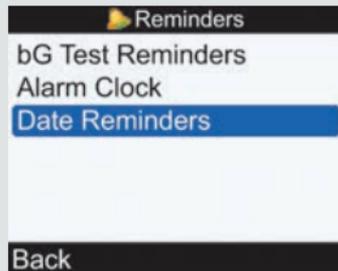
- ▶ From the Main Menu, select Settings and press .

2.



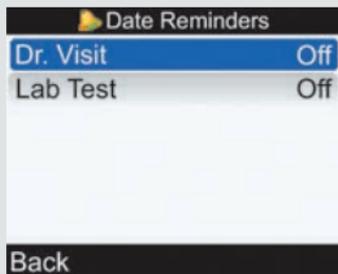
- ▶ Select Reminders and press .

3.

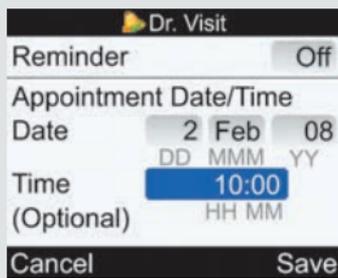


- ▶ Select Date Reminders and press .

4.



- ▶ Select either Dr. Visit or Lab Test and press .
- ▶ Proceed to either Dr. Visit or Lab Test 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.

Lab Test

Reminder Off

Appointment Date/Time

Date 2 Feb 08
DD MMM YY

Time 10:00
(Optional) HH MM

Cancel 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.

i 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 and "MM" is minutes.
- 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 utilise 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.

WARNING

- Bolus advice should not be used if you are using an intermediate-acting insulin like Neutral Protamine Hagedorn (NPH) insulin or any other intermediate-acting insulin.
- Remember, long-acting insulin should not be used as a meals bolus or as a correction bolus.

Time Blocks–Bolus Advice Screen

Time Block Start Time

Target Range Lower
Limit Value

Carb Ratio–
Number of Insulin Units

Time Blocks

0:00 - 5:30

Target Range
4 mmol/L - 8 mmol/L

Carb Ratio
1 U for 10 g

Cancel Save

Time Block End Time

Target Range Upper Limit Value

Carb Ratio–
Number of Carbs

scroll down

Insulin Sensitivity–
Number of Insulin Units

Time Blocks

Target Range
4 mmol/L - 8 mmol/L

Carb Ratio
1 U for 10 g

Insulin Sensitivity
1 U for 2 mmol/L

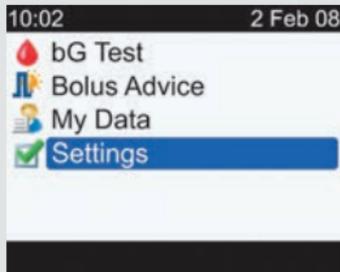
Cancel Save

Insulin Sensitivity–
Change in Glucose Level

Scroll Bar

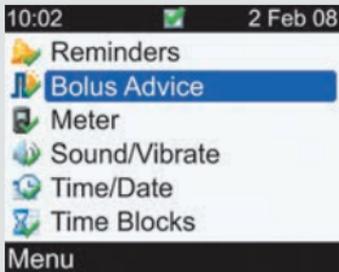
Main Menu > Settings > Bolus Advice

1.



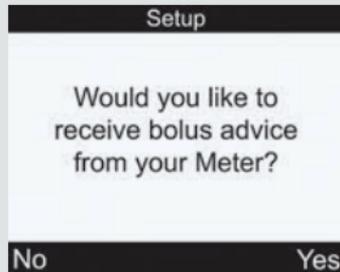
- ▶ From the Main Menu, select Settings and press .

2.



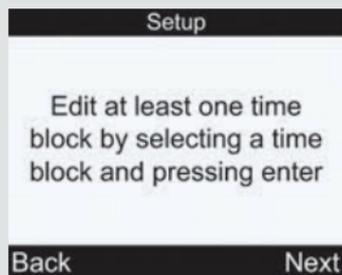
- ▶ Select Bolus Advice and press .

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 .

Time Blocks
0:00 - 5:30
Target Range
4 mmol/L - 8 mmol/L
Carb Ratio
1 U for 10 g
Cancel Save

scroll down

Time Blocks
Target Range
4 mmol/L - 8 mmol/L
Carb Ratio
1 U for 10 g
Insulin Sensitivity
1 U for 2 mmol/L
Cancel 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 .

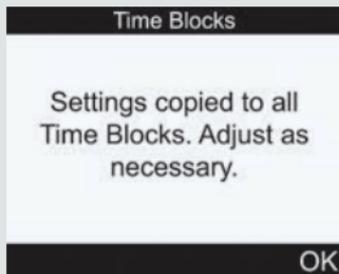
To Change the Carb Ratio:

- ▶ 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.



- ▶ 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

21:30 - 0:00

Target Range
4 mmol/L - 8 mmol/L

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 .

Time Blocks

0:00 - 5:30

Target Range
4 mmol/L - 8 mmol/L

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.
- ▶ Remove another time block, or proceed to step 8.

8.

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

Back Next

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.

| Advice Options | |
|----------------|----------|
| Meal Rise | 6 mmol/L |
| 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 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 .

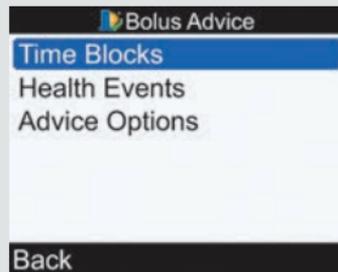
To save the changes and exit, select Save.

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:

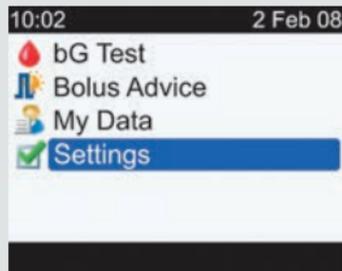
- Adding or removing time blocks
- Changing the time of day when time blocks occur
- Changing the values for target range, carb ratio and insulin sensitivity for any time block
- Changing health event percentages
- Changing advice options (meal rise, snack size, acting time, offset time)

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

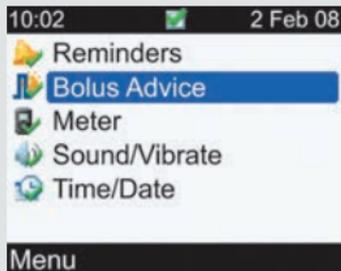
Main Menu > Settings > Bolus Advice > Time Blocks

1.



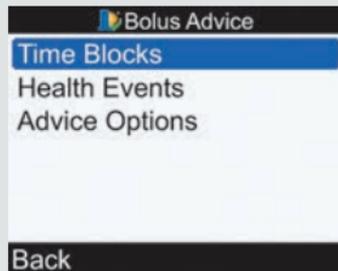
- ▶ From the Main Menu, select Settings and press .

2.



- ▶ Select Bolus Advice and press .

3.



- ▶ Select Time Blocks and press .

4.

| Time Blocks | |
|-------------|-------|
| Start | End |
| 0:00 | 5:30 |
| 5:30 | 11:00 |
| 11:00 | 17:00 |
| 17:00 | 21:30 |
| 21:30 | 0:00 |
| 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 | |
|--------------|----------|
| 21:30 - | 0:00 |
| Target Range | |
| 4 mmol/L - | 8 mmol/L |
| 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

0:00 - 5:30

Target Range
4 mmol/L - 8 mmol/L

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.

Time Blocks

0:00 - 5:30

Target Range
4 mmol/L - 8 mmol/L

Carb Ratio
1 U for 10 g

Cancel 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 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.

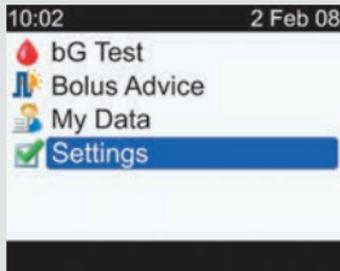
| Time Blocks | |
|-------------|-------|
| Start | End |
| 0:00 | 5:30 |
| 5:30 | 11:00 |
| 11:00 | 17:00 |
| 17:00 | 21:30 |
| 21:30 | 0:00 |
| Back | |

- ▶ 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

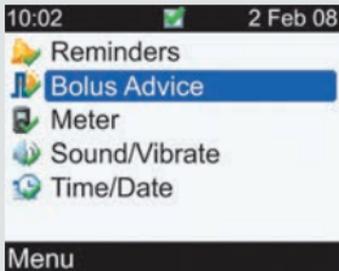
Main Menu > Settings > Bolus Advice > Health Events

1.



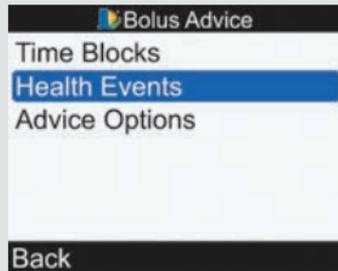
- ▶ From the Main Menu, select Settings and press .

2.



- ▶ Select Bolus Advice and press .

3.



- ▶ Select Health Events and press .

4.

| Health Events | |
|---------------|-----------------------------------|
| Exercise 1 | <input type="text" value="-10%"/> |
| Exercise 2 | <input type="text" value="-20%"/> |
| Stress | <input type="text" value="0%"/> |
| Illness | <input type="text" value="+20%"/> |
| Premenstrual | <input type="text" value="0%"/> |
| Cancel | Save |

To Change the Health Events:

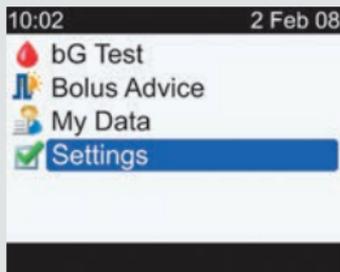
- ▶ Select the entry field of the health event to be changed and press
- ▶ Set the percentage and press
- ▶ Repeat the previous steps to change other health events.

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

Setting Bolus Advice Options—Bolus Advice is Set Up

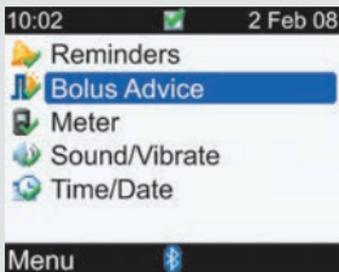
Main Menu > Settings > Bolus Advice > Advice Options

1.



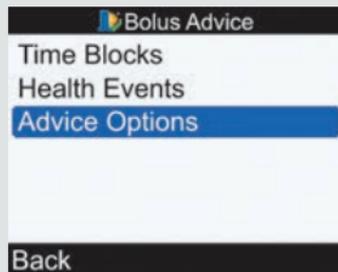
- ▶ From the Main Menu, select Settings and press .

2.



- ▶ Select Bolus Advice and press .

3.



- ▶ Select Advice Options and press .

4.

| Advice Options | |
|----------------|---------------|
| Meal Rise | 6 mmol/L |
| 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 | |
| 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 hyperglycaemia (Hyper) or hypoglycaemia (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.”

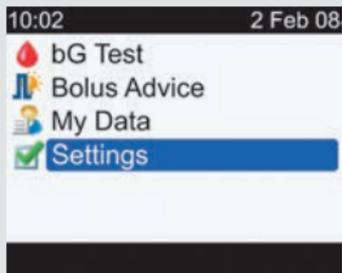
¹The meter displays a recommended amount of fast carbohydrates.

WARNING

This function is no substitute for hyperglycaemia or hypoglycaemia training by your healthcare professional.

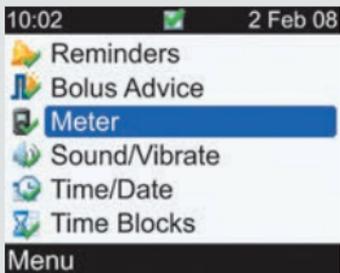
Main Menu > Settings > Meter > Warning Limits

1.



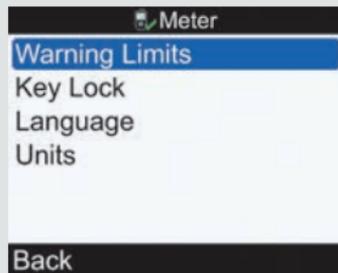
- ▶ From the Main Menu, select Settings and press .

2.



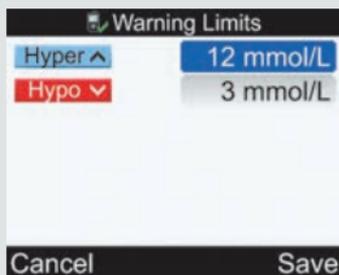
- ▶ Select Meter and press .

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 .

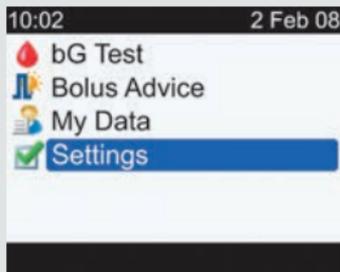
To save the changes and return to the Meter Menu screen, select Save.

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 button. This serves as a safety measure against unintentional activation of meter functions.

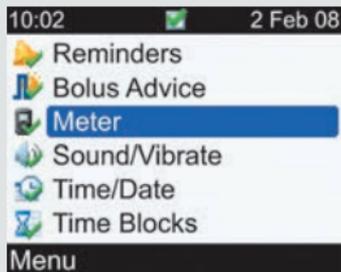
Main Menu > Settings > Meter > Key Lock

1.



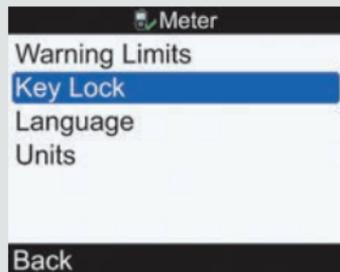
- ▶ From the Main Menu, select Settings and press .

2.



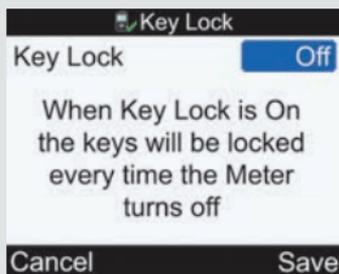
- ▶ Select Meter and press .

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 the meter on, 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

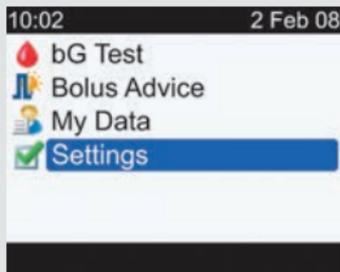
- ▶ When the buttons are locked, you can still turn the meter on and off. You can also adjust the backlight.
- ▶ The buttons are unlocked when a test strip is inserted into the meter and remain unlocked for the current session. When the meter is turned on again, the buttons are locked.

5.9 Setting the Language

You can select a language from the predefined list.

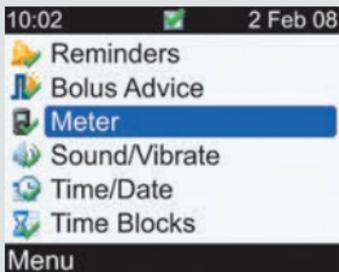
Main Menu > Settings > Meter > Language

1.



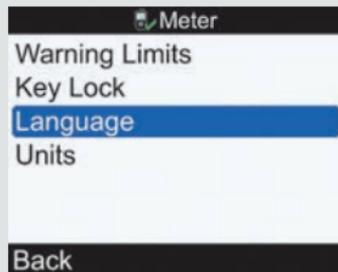
- ▶ From the Main Menu, select Settings and press .

2.



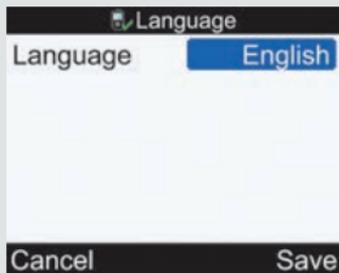
- ▶ Select Meter and press .

3.



- ▶ Select Language and press .

4.



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

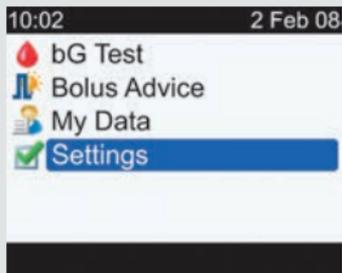
To save the change and return to the Meter Menu screen, select Save.

5.10 Setting Units: Carbs, Insulin Increment, Max Bolus

You can set up the meter for different carbohydrate (carbs) units (Grams, BE, KE or CC). The insulin increment can be set to either 0.5 or 1U. You can set the max bolus between 0 and 50 in increments of 1 or 0.5 (per the insulin increment value).

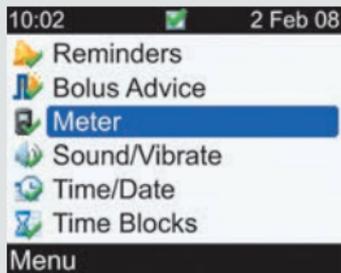
Main Menu > Settings > Meter > Units

1.



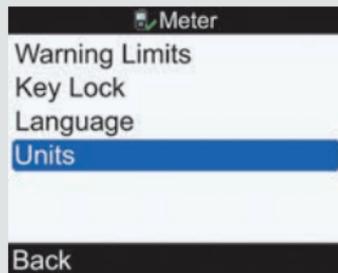
- ▶ From the Main Menu, select Settings and press .

2.



- ▶ Select Meter and press .

3.



- ▶ Select Units and press .

4.

| Units | |
|-------------------|-------|
| Carbs | Grams |
| Insulin Increment | 1 U |
| Max Bolus | 50 U |
| Cancel | Save |

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

To Change the Insulin Increment:

- ▶ Select the Insulin Increment entry field and press .
- ▶ Select 0.5 U or 1 U insulin increment and press .

To Change the Max Bolus:

- ▶ Select the Max Bolus entry field and press .
- ▶ Set the max bolus level and press .

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

i NOTE

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

5.11 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:

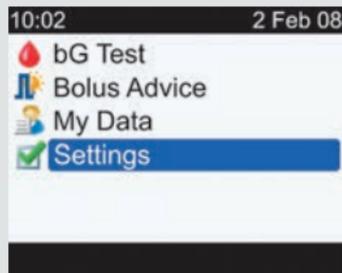
- Button presses
- Errors
- Warnings
- Reminders

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.

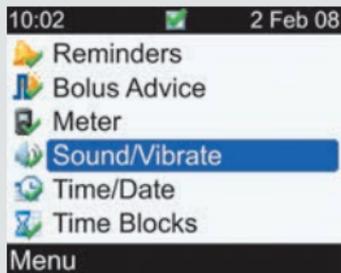
Main Menu > Settings > Sound/Vibrate

1.



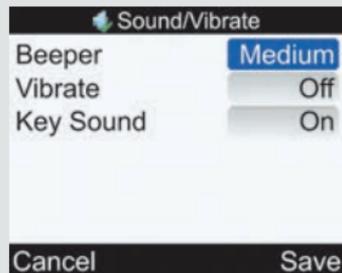
- ▶ From the Main Menu, select Settings and press .

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.

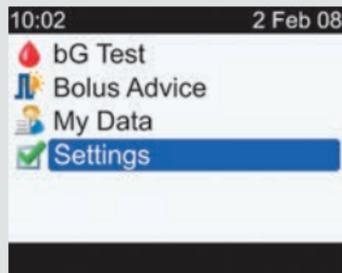
5.12 Setting the Time Format, Time, Date

NOTE

- 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 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.

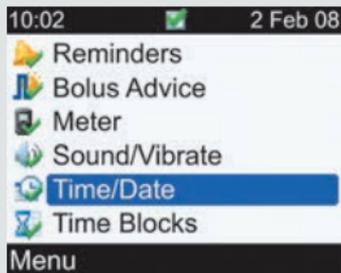
Main Menu > Settings > Time/Date

1.



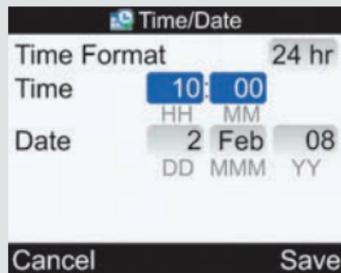
- ▶ From the Main Menu, select Settings and press .

2.



- ▶ Select Time/Date and press .

3.



- To Change the Time Format:**
- ▶ Select the Time Format entry field and press .
 - ▶ Select 24-hr or 12-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 .

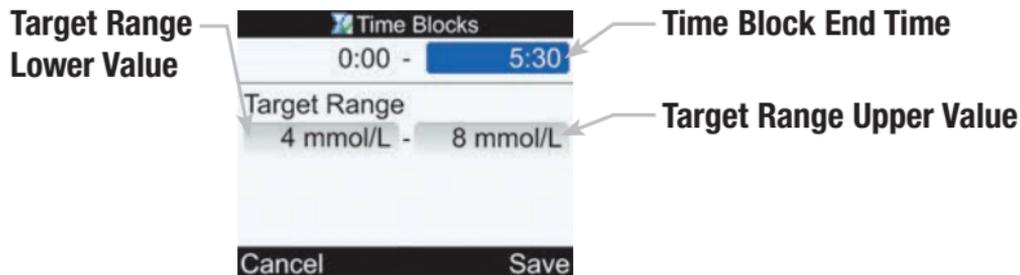
To Change the Date:

- ▶ 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.

5.13 Setting Time Blocks: Bolus Advice Not Set Up

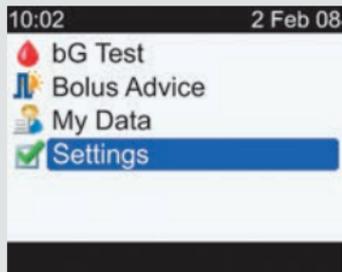
This section is for changing, adding and removing time blocks only if bolus advice has not been set up. For each time block, you can set up different blood glucose target ranges. It is suggested that you review the Getting Started Guide before continuing. Prior to setting up time blocks, it is recommended 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

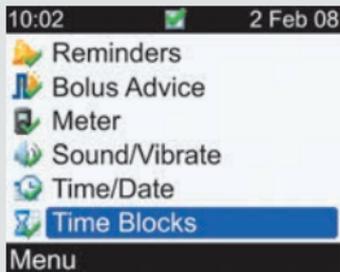
Main Menu > Settings > Time Blocks

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

0:00 - 5:30

Target Range

4 mmol/L - 8 mmol/L

Cancel 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 |
|-------|-------|
| 0:00 | 5:30 |
| 5:30 | 11:00 |
| 11:00 | 17:00 |
| 17:00 | 21:30 |
| 21:30 | 0:00 |

Back

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

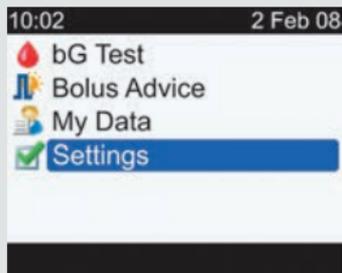
i NOTE

- 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

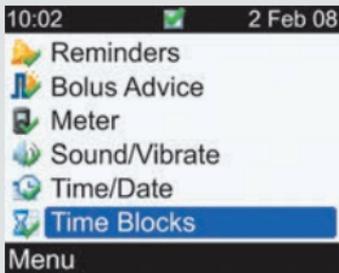
Main Menu > Settings > Time Blocks

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 time range "21:30 - 0:00". The "0:00" field is highlighted with a blue background. Below this is a "Target Range" section with two input fields: "4 mmol/L" and "8 mmol/L". At the bottom of the screen, there are two buttons: "Cancel" on the left and "Save" on the right.

- ▶ 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.

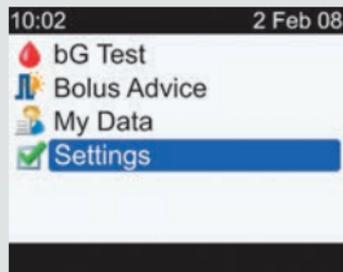
5.

- ▶ 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

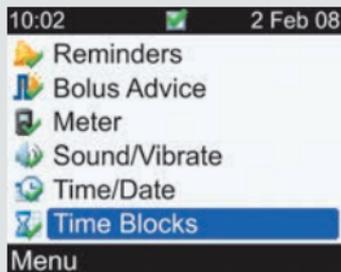
Main Menu > Settings > Time Blocks

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

0:00 - 5:30

Target Range

4 mmol/L - 8 mmol/L

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.

5.14 Backlight Settings

The backlight on your Accu-Chek Aviva Expert 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.

i 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 | Icon Name | Icon |
|-------------------------|---|--------------------------|---|
| Add Data |  | Control Test |  |
| Analyzing |  | Date |  |
| Basal Insulin |  | Download (Data Transfer) |  |
| Beeper |  | Error |  |
| Blood Glucose Averages |  | Health |  |
| Blood Glucose Test |  | Low Battery |  |
| Bolus Advice |  | Meal Time |  |
| Bolus Advice (Settings) |  | Meter |  |
| Bolus Insulin |  | Meter (Settings) |  |
| Carbs |  | My Data |  |

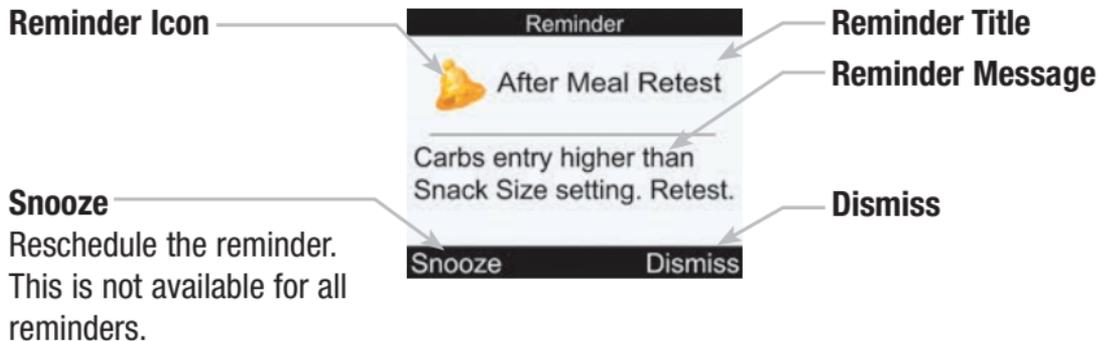
| Icon Name | Icon | Icon Name | Icon |
|--------------------------|---|-----------------------|---|
| Reminder |  | Time Block (Settings) |  |
| Reminder (Settings) |  | Time Change |  |
| Reports |  | Time/Date (Settings) |  |
| Settings |  | Vibrate |  |
| Sound/Vibrate (Settings) |  | View Data |  |
| Time |  | 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



i 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, Injection, 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 |
| Basal Injection | It is time for your scheduled basal injection | Snooze | Dismiss | 15 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 |
| 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 | |

| Reminder Title | Reminder Message | Left Soft Key | Right Soft Key | Snooze Time |
|-------------------|---|---------------|----------------|-------------|
| 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, Injection and Other)
 3. Date Reminders (Dr. Visit and Lab Test)

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.

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 turns off.
- 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 turns off.
- 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, Injection 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 turns off.
 - 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.

• **Injection Alarm Clock Reminder**

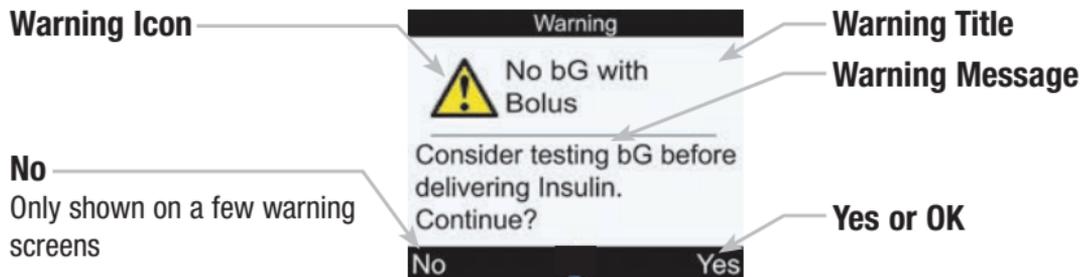
- If the meter is already on when the reminder is scheduled and no basal insulin data was entered, the reminder is displayed when the meter turns off.
- Dismiss all active Injection reminders by pressing .
- Snooze the reminder for 15 minutes either by pressing  or by inserting a test strip.
- When you enter basal insulin data, the meter dismisses any Injection 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 turns off.
- 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



i 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 |

| 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 ² | | OK |
| Corrupt Language | Choose another language | | OK |
| 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 |

| Warning Title | Warning Message | Left Soft Key | Right Soft Key |
|----------------------------|---|---------------|----------------|
| HI bG Warning | Consider checking bG, ketones and insulin | | OK |
| Insulin Sensitivity | Insulin Sensitivity seems unusual. Check entries. | | 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 |
| Invalid Hypo Values | Hypo value must be less than Time Block target ranges | | 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 |

| Warning Title | Warning Message | Left Soft Key | Right Soft Key |
|----------------------|--|---------------|----------------|
| 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 Battery Low | Replace soon | | OK |
| No bG with Bolus | Consider testing bG before delivering Insulin. Continue? | No | Yes |
| Test Strips Expiring | Change Code Key and Strips soon ² | | OK |

¹The meter displays a recommended amount of fast carbohydrates.

²On the meter display, the activation chip is referred to as a code key. Code key and activation chip are interchangeable and mean the same thing. If you need an activation chip, please contact the Accu-Chek Customer Careline on 0800 701 000 (UK) or 1 800 709 600 (ROI).

6.6 List of Errors

Error Screen Example

Error Icon



Error

Error Title

E-55 Code Key
Expired

Error Message

Turn Meter off, replace
Code Key and Strips

Menu

Menu

This option is not available for all errors.

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 ¹ | Menu ² | OK ³ |
| 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 ¹ | Menu ² | OK ³ |
| 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 ⁴ | OK ⁴ |

| 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 On the meter display, the activation chip is referred to as a code key. Code key and activation chip are interchangeable and mean the same thing. If you need an activation chip, please contact the Accu-Chek Customer Careline on 0800 701 000 (UK) or 1 800 709 600 (ROI).

² “Menu” is only displayed when the meter is in a bG test screen.

³ “OK” is only displayed after the splash screen (Accu-Chek logo screen).

⁴ 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 Care and Maintenance

| | |
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7.1 Overview

It is important to properly care for and maintain your Accu-Chek Aviva Expert meter. If you have any questions about the care and maintenance of your meter, contact the Accu-Chek Customer Careline on 0800 701 000 (UK) or 1 800 709 600 (ROI).

7.2 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.

i 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.
- 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:
 - 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.

7.3 Power-Saving Tips

To conserve battery life:

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

7.4 Cleaning the Meter

Caring for the meter is easy: just keep it free of dust. If you need to clean it, follow these guidelines carefully to help you get the best performance possible:

- DO**
- Ensure the meter is off
 - Gently wipe the meter's surface with a soft cloth slightly dampened with one of these cleaning solutions:
 - 70 % isopropyl alcohol
 - Mild dishwashing liquid mixed with water
 - 10 % household bleach solution (1 part bleach plus 9 parts water) made the same day
 - Squeeze out any excess liquid from the cloth before you wipe the meter surface

- DO NOT**
- Get any moisture in the activation chip slot or test strip slot
 - Spray any cleaning solution directly onto the meter
 - Put the meter under water or liquid
 - Pour liquid into the meter

7.5 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 8, 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 display cycles through colours (red, blue, green, and white). If any part of the display does not change colours, contact the Accu-Chek Customer Careline on 0800 701 000 (UK) or 1 800 709 600 (ROI).
- If the meter is not working properly, contact the Accu-Chek Customer Careline on 0800 701 000 (UK) or 1 800 709 600 (ROI).

8 Troubleshooting

| | |
|--|-----|
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8.1 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 the Accu-Chek Customer Careline on 0800 701 000 (UK) or 1 800 709 600 (ROI).



WARNING

Never make treatment decisions based on a warning or error message. If you have any concerns, contact the Accu-Chek Customer Careline on 0800 701 000 (UK) or 1 800 709 600 (ROI).



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 the Accu-Chek Customer Careline on 0800 701 000 (UK) or 1 800 709 600 (ROI).
- Blood glucose and bG are interchangeable and mean the same thing.

8.2 Troubleshooting the Accu-Chek Aviva Expert 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 7, Care and Maintenance. |
| | ▶ Display is damaged. | ▶ Contact the Accu-Chek Customer Careline on 0800 701 000 (UK) or 1 800 709 600 (ROI). |
| | ▶ Meter is defective. | ▶ Contact the Accu-Chek Customer Careline on 0800 701 000 (UK) or 1 800 709 600 (ROI). |
| | ▶ Extreme temperature – the temperature is outside the meter operating range. | ▶ Move the meter to an area with proper temperature. Wait 5 minutes before turning on the meter. Do not artificially heat or cool the meter. |
| Above Hyper Warning Limit | ▶ Your test result is above the hyper warning limit set in the meter. | ▶ Treat your high blood glucose as recommended by your healthcare professional. ▶ Consider checking bG, ketones and insulin. |
| Beep/Vibrate Off | ▶ Beep and Vibrate settings cannot be turned off at the same time. | ▶ Ensure that either the Beep or Vibrate setting is turned on. See Chapter 5, Changing Meter Settings. |

| Display Shows | Possible Cause(s) | Possible Solution(s) |
|--------------------------|---|--|
| 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. |
| Bolus Advice Not Setup | <ul style="list-style-type: none"> ▶ Advice is not provided unless it is set up through Bolus Advice in Settings Menu. | <ul style="list-style-type: none"> ▶ 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. |
| Bolus Advice Timeout | <ul style="list-style-type: none"> ▶ Bolus advice is no longer available for this bG 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. |
| 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. |
| Carbohydrate Ratio | <ul style="list-style-type: none"> ▶ Carbohydrate ratio is outside of the acceptable meter range. | <ul style="list-style-type: none"> ▶ Check your entries and contact your healthcare professional to determine the appropriate settings. |
| Code Key Missing | <ul style="list-style-type: none"> ▶ The activation chip is not inserted. | <ul style="list-style-type: none"> ▶ Turn the meter off and and insert the activation chip. If you need an activation chip, please contact the Accu-Chek Customer Careline on 0800 701 000 (UK) or 1 800 709 600 (ROI). |

| Display Shows | Possible Cause(s) | Possible Solution(s) |
|-----------------------------|--|--|
| 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"> ▶ Your blood glucose may be extremely low. | <p>If you see this error message after you applied blood to the test strip:</p> <ul style="list-style-type: none"> ▶ If you are experiencing any of the common symptoms of low blood sugar, contact your healthcare professional immediately. ▶ Treat your low blood sugar as recommended by your healthcare professional. ▶ If this does not match how you feel, repeat the blood glucose test and see Chapter 2, Testing Your Blood Glucose. |
| | <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. If the message reappears, contact the Accu-Chek Customer Careline on 0800 701 000 (UK) or 1 800 709 600 (ROI). |
| E-52 Code Key Error | <ul style="list-style-type: none"> ▶ The activation chip is incorrect. | <ul style="list-style-type: none"> ▶ Please contact the Accu-Chek Customer Careline on 0800 701 000 (UK) or 1 800 709 600 (ROI). |

| 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 confirms how you feel, contact your healthcare professional immediately. If it does not confirm how you feel, repeat the test and see Chapter 2, Testing Your Blood Glucose. If this still does not confirm 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. |
| E-54 Not Enough Sample | ▶ Not enough blood or control solution was drawn into the test strip for measurement or was applied after the test has started. | ▶ Discard the test strip and repeat the test. |

| Display Shows | Possible Cause(s) | Possible Solution(s) |
|------------------------------|---|--|
| E-55 Code Key Expired | <ul style="list-style-type: none"> ▶ The code key is from an expired lot of test strips. | <ul style="list-style-type: none"> ▶ This message may appear when using a white activation chip 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 activation chip and any remaining test strips. Insert a black activation chip. Make sure the time and date in the meter are correct. If you need a black activation chip, please contact the Accu-Chek Customer Careline on 0800 701 000 (UK) or 1 800 709 600 (ROI). |
| 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. |
| 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 the meter off and remove the batteries. Wait at least 30 seconds prior to reinserting the batteries. Turn the meter on and perform a blood glucose or control test. If the problem persists, contact the Accu-Chek Customer Careline on 0800 701 000 (UK) or 1 800 709 600 (ROI). |

| Display Shows | Possible Cause(s) | Possible Solution(s) |
|-------------------------|---|--|
| 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 7, Care and 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. |
| 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. |
| Insulin Sensitivity | <ul style="list-style-type: none"> ▶ Insulin sensitivity is outside of the acceptable meter range. | <ul style="list-style-type: none"> ▶ Check your entries and contact your healthcare professional to determine the appropriate settings. |

| Display Shows | Possible Cause(s) | Possible Solution(s) |
|----------------------------|--|--|
| 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 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. |
| Meter Battery Low | <ul style="list-style-type: none"> ▶ Battery power is low. | <ul style="list-style-type: none"> ▶ Install new batteries. See Chapter 7, Care and Maintenance. |

| Display Shows | Possible Cause(s) | Possible Solution(s) |
|----------------------|--|--|
| 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. |
| 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 activation chip 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 activation chip and any remaining test strips. Insert a black activation chip. Make sure the time and date in the meter are correct. If you need a black activation chip, please contact the Accu-Chek Customer Careline on 0800 701 000 (UK) or 1 800 709 600 (ROI). ▶ Ensure the time and date are correct and adjust, if necessary. See Chapter 5, Changing Meter Settings. |

i 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 the Accu-Chek Customer Careline on 0800 701 000 (UK) or 1 800 709 600 (ROI).

9 Technical Information

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9.1 Overview

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

9.2 Product Limitations

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

9.3 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) | -20 °C to 50 °C |
| 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 | 94 x 55 x 25 mm LWH |
| Weight | Approximately 103 g with batteries inserted |
| Construction | Hand-held |
| Protection class | III |
| Meter type | The Accu-Chek Aviva Expert meter is suitable for continuous operation. |
| Control solution storage conditions | 2 °C to 32 °C |
| Interface | IR; LED/IRED – Class 1 |

9.4 Product Safety Information

 **WARNING**

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

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 other electrically driven equipment is not to be anticipated.

Performance Analysis

The performance data for the Accu-Chek Aviva Expert system (Accu-Chek Aviva Expert meter with Accu-Chek Aviva test strips) were obtained using capillary blood from diabetic patients (method comparison, accuracy), venous blood (repeatability), and control solution (reproducibility). The system 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.

9.5 Disposing of the Meter



WARNING

- During blood glucose measurement, the meter itself may come into contact with blood. Used meters therefore carry a risk of infection. Dispose of your used meter, after removing the batteries, according to the regulations applicable in your country. For information about correct disposal, contact your local council and authority.
- The meter falls outside the scope of the European Directive 2002/96/EC - Directive on waste electrical and electronic equipment (WEEE).

9.6 Guarantee

The statutory provisions on rights in consumer goods sales in the country of purchase shall apply.

9.7 Additional Supplies

Test Strips

Accu-Chek Aviva test strips

Control Solutions

Accu-Chek Aviva control solutions

9.8 Information for Healthcare Professionals



WARNING

Healthcare Professionals: Follow the infection control procedures appropriate for your facility.

A drop of fresh, whole blood is required to perform a blood glucose test. Refer to the test strip package insert for additional healthcare professional information.

Appendices

Appendix A: Abbreviations

| Abbreviation | Definition |
|--------------|--|
| BE | Bread Equivalent (equal to 12 grams of carbohydrates) |
| bG | Blood Glucose |
| °C | Degrees Celsius (or Centigrade) |
| Carbs | Carbohydrates |
| CC | Carbohydrate Choice (equal to 15 grams of carbohydrates) |
| g | Grams |

| Abbreviation | Definition |
|---------------------|--|
| Hyper | Hyperglycaemia (high blood glucose) |
| Hypo | Hypoglycaemia (low blood glucose) |
| IR | Infrared |
| ISO | International Organization for Standardization |
| KE | Kohlenhydrateinheit (equal to 10 grams of carbohydrates) |
| LCD | Liquid Crystal Display |
| mmol/L | Millimoles per Litre |
| NIST | National Institute of Standards and Technology (United States) |

| Abbreviation | Definition |
|---------------------|-----------------------------|
| NPH | Neutral Protamine Hagedorn |
| SD | Standard Deviation |
| U | Units (basal 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 |

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 meter, shown here with their meaning.

| | |
|---|--|
|  | Consult instructions for use |
|  | Caution, refer to safety-related notes in the instructions for use accompanying this product. |
|  | A NOTE is used to provide additional information. |
|  | Temperature limitation (store at) |
|  | Manufacturer |
|  | Catalogue number |
|  | In vitro diagnostic medical device |
|  | Global Trade Item Number |
|  | This product fulfils the requirements of the European Directive 98/79/EC on in vitro diagnostic medical devices. |
|  | 1.5V AAA |

Appendix D: Meter Settings and Range Limits

mmol/L

| Data Type | Unit of Measurement | MIN | MAX | Increments | Default Setting |
|----------------------|---------------------|------|------|-------------------|---------------------|
| Acting Time | hours:minutes | 1:30 | 8:00 | 0:15 | 4:00 |
| Basal Insulin | Units | 0 | 99 | Insulin Increment | 0 |
| bG Threshold (High) | mmol/L | 6.5 | 19.5 | 0.1 | Hyper Warning Limit |
| bG Threshold (Low) | mmol/L | 3 | 5.5 | 0.1 | Hypo Warning Limit |
| Bolus Insulin | Units | 0 | 50 | Insulin Increment | 0 |
| 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 |

| Data Type | Unit of Measurement | MIN | MAX | Units | Default Setting |
|----------------------------------|---------------------|-----|------|-------|------------------------|
| 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”) |
| Exercise 1 (health event) | % | -50 | 50 | 1 | 0 |
| Exercise 2 (health event) | % | -50 | 50 | 1 | 0 |
| Hyper Warning Limit | mmol/L | 10 | 19.5 | 0.1 | 16.5 |
| Hypo Warning Limit | mmol/L | 3 | 5 | 0.1 | 4 |
| Illness (health event) | % | -50 | 50 | 1 | 0 |
| Insulin Increment ¹ | Units | 0.5 | 1 | | 0.5 |
| Insulin Sensitivity (bG) | mmol/L | 0.1 | 55.4 | 0.1 | No entry (“---mmol/L”) |
| Insulin Sensitivity (insulin) | Units | 0.1 | 50 | 0.1 | 1 |

| Data Type | Unit of Measurement | MIN | MAX | Units | Default Setting |
|-----------------------------|---------------------|------|-------------|--|---------------------|
| Max Bolus | Units | 0 | 50 | 1 or 0.5 (per the insulin increment value) | No entry (“---U”) |
| Meal Rise (bG) | mmol/L | 2.8 | 11.1 | 0.1 | 2.8 |
| 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”) |
| Stress (health event) | % | -50 | 50 | 1 | 0 |
| Target Range Upper Value | mmol/L | 5.5 | 15 | 0.1 | 8 |
| Target Range Lower Value | mmol/L | 3 | 8 | 0.1 | 4 |

¹The insulin increment is used when entering bolus and basal insulin data.

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

| Test Reminder | Default Time of Day |
|---------------|---------------------|
| 1 | 07:00 |
| 2 | 09:00 |
| 3 | 11:00 |
| 4 | 12:00 |
| 5 | 14:00 |
| 6 | 16:00 |
| 7 | 19:00 |
| 8 | 22:00 |

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 | 24-Hour Format |
|-------------------|-----------------------|
| 1 | 0:00–5:30 |
| 2 | 5:30–11:00 |
| 3 | 11:00–17:00 |
| 4 | 17:00–21:30 |
| 5 | 21:30–0:00 |

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. |
| 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. |
| Basal | A dose of long-acting insulin intended to maintain normal blood glucose levels between meals and at night. |

| 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 the blood. |
| 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. |
| 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. |

| Term | Definition |
|----------------|--|
| 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 00:00 and ending at 23:59. |
| End Time | The end time of a time block. |
| 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 | Hyperglycaemia: an abnormally high level of glucose in the blood. |

| Term | Definition |
|---------------------|--|
| Hyper Warning Limit | When your blood glucose test result is above the hyper warning limit, a warning is displayed. |
| Hypo | Hypoglycaemia: 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 Increment | The meter rounds off the insulin amount to be delivered, which the meter calculates if bolus advice is set up, or when you manually enter bolus and basal insulin data into the diary. The insulin increment can be set to 0.5 or 1 U. |
| 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. |

| Term | Definition |
|-------------|--|
| Max Bolus | The maximum amount of bolus insulin to be delivered at one time. A bolus that is larger than the max bolus amount requires an additional confirmation. This serves as a safety measure against unintended large boluses. |
| Meal Rise | During or after meals, an increase in blood glucose test levels is considered normal within a certain range, even though a meal bolus has been delivered. A meal rise is in effect for a specified time period. |
| Meal Time | A pop-up menu selection (pre-meal, post-meal, bedtime or other) that allows information to be stored with a blood glucose test or in a diary record. |
| Meter | Blood glucose meter. |
| Note | Additional information. |
| NPH Insulin | Neutral Protamine Hagedorn. An intermediate-acting insulin that, on average, starts to lower blood glucose within 1 to 2 hours after injection. It has its strongest effect 6 to 10 hours after injection but keeps working about 10 hours after injection. Also called N insulin. |

| Term | Definition |
|--------------------|--|
| 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. |
| 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. |
| 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 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. |

| Term | Definition |
|----------------|--|
| Target Range | The desired upper and lower limits of your blood glucose level considered acceptable as set by your healthcare professional. |
| 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. |
| 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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