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Welcome

Thank you for choosing the Optium Xceed Blood Glucose and Blood β-Ketone Monitoring System. Important steps for using the System are inside this guide. Please read it carefully.

Your new Optium Xceed Blood Glucose and Blood β-Ketone Monitoring System is an important tool that can help you better manage your diabetes. The System measures both blood glucose (sugar) and blood β-Ketone. Blood glucose and blood β-Ketone results can help you understand your diabetes and what happens with:

• Food
• Exercise
• Stress and illness
• Diabetes medications

Always monitor your blood glucose and blood β-Ketone according to your healthcare professional’s recommendations.

Call Customer Service in the UK on 0500 467 466, or in Ireland on 1800 776633 with any questions you may have about the Optium Xceed Blood Glucose and Blood β-Ketone Monitoring System. If you cannot reach Customer Service, contact your healthcare professional.

Outside the UK and Ireland, please contact your local Abbott Diabetes Care office or distributor.

Please read the following items before using your Optium Xceed Blood Glucose and Blood β-Ketone Monitoring System:

• User guide
• Blood glucose test strip instructions for use
• Blood β-Ketone test strip instructions for use
• Lancing device instructions for use and other information
• Warranty card
When you insert a test strip into your meter, the Apply Sample message shows on your meter's display window. When a blood sample or control solution sample is applied to the test strip, the glucose or β-Ketone reacts with the chemicals on the test strip. This reaction produces a small electrical current that is measured. The result shows on your meter's display window.

### Optium Xceed Kit Contents

- **Optium Xceed Meter**
- **Optium Xceed User’s Guide** – Contains system information and instructions.
- **Carrying Case** – Use this to store and carry your meter and other monitoring supplies.
- **Optium Xceed Quick Reference Guide** – Gives the basic steps to calibrate your meter and monitor your blood glucose.
- **Logbook** – Use this to record your test results, activities, and medications.
- **Limited Warranty Card** – Please fill this out and return to the address provided to start your warranty. Filling out this card helps to ensure that you receive any updates regarding your Optium Xceed meter.
- **Lancing Device, Lancets, Instructions for Use and Other Information**
- **Blood Glucose Test Strips and Instructions for Use**
- **Data Management System**

Items not included:
- Optium or MediSense Control Solutions
- Blood β-Ketone Test Strips and Instructions for Use

### Questions? Call Customer Support:
- UK: 0500 467 466
- Ireland: 1800 776633
Getting to Know Your Meter's Features

Display Window
This shows:
• Blood glucose and blood β-Ketone results
• Glucose LOT numbers and β-Ketone calibration CODEs
• Previous test results and error messages
• Blood glucose averages

Strip Port
This is where you insert:
• A blood glucose test strip
• A blood β-Ketone test strip
• A glucose calibrator
• A ketone calibrator
• Data cable (not included) for uploading results to a computer

Mode Button
Use this button to:
• Turn meter ON and OFF
• Access meter setup options
• Access and save meter settings
• Access previous results and averages

Forward Button

Back Button

Backlight Button

Battery Compartment
This is where the battery is installed.
• If your meter does not turn on, check that your battery is installed properly.
• For new battery installation, see Chapter 10.

IMPORTANT: Avoid getting dust, dirt, blood, control solution, water, or any other substance in the test strip port

Display Check
Each time you turn your meter on, a full display shows. This is called a Display Check. Look at the Display Check each time it appears on your meter's display window, especially before you monitor your blood glucose or blood β-Ketone. The Display Check shows on the display window briefly.

Do not use the meter if the meter Display Check does not exactly match the picture here (for example, if you see a "3" instead of an "8"). The meter may show an incorrect result when you use it. Please call Customer Service for assistance.

IMPORTANT: Avoid getting dust, dirt, blood, control solution, water, or any other substance in the test strip port.
CHAPTER 2
Setting Up Your Optium Xceed Meter

 Buttons to Use

- Mode Button
- Forward Button
- Back Button

 Setup Options

 Set Beeper

If the beeper is set ON, it will beep when:
• The calibrator is fully inserted
• The test countdown starts
• The test countdown finishes

 Set Time, Set Date

Important: Please check that the correct time and date is set before you use the meter for the first time. This will help you keep records of when you monitor and will help you and your healthcare professional make informed decisions about your care. **You must set the time and date to review averages.**

You may need to reset the time and date:
• After you replace the battery.
• When you travel between time zones or when the time zone you are in changes.

In "Set Date", you set the year, month, and day.

Set Time Format

In "Set Time Format", you choose how the time shows on the meter’s display window.

Set Date Format

In "Set Date Format", you choose how the month and day show on the meter’s display window.

Measurement Units

Blood glucose measurement units are factory-set in mg/dL or mmol/L.
Blood β-Ketone measurement units are in mmol/L only.

How to Set the Beeper, Date, Time, & View Measurement Units

Before you start, please note: "Press and Hold" means that you press the button in for at least 2 seconds. "Press and Release" means that you press the button and let it go quickly.

Press and Hold the button to turn the meter off and save your settings at any time. The meter automatically turns off after 30 seconds of no action.

If you like the setting that you see on your meter and do not want to change it, Press and Release the button to move to the next setup option.

Set Beeper

The ✓ means the beeper is ON.
The X means the beeper is OFF.
To turn your meter ON, Press and Hold the button. The beeper ON message shows on the display window. The musical notes flash on and off, and the meter beeps.

To change the beeper setting, Press and Release the button or the button once.

Press and Release the button to save the beeper setting and to move to Set Time (Hour).

Set Time
Hour:
The Hour flashes on and off.
1 Press and Release the button to move the hour forward.
2 If you go past the correct hour, Press and Release the button to move the hour back.
3 Press and Release the button to save the hour and to move to Set Minutes.

Minutes:
The Minutes flash on and off.
1 Press and Release the button to move the minutes forward.
2 If you go past the correct minute, Press and Release the button to move the minutes back.
3 Press and Release the button to save the minutes and to move to Set Date.

Set Date
Year:
The Year flashes on and off.
1 Press and Release the button to move the year forward.
2 If you go past the correct year, Press and Release the button to move the year back.
3 Press and Release the button to save the year and to move to Set Month.
Month:
The Month flashes on and off.
1. Press and Release the ▲ button to move the month forward.
2. If you go past the correct month, Press and Release the ▼ button to move the month back.
3. Press and Release the ① button to save the month and to move to Set Day.

Day:
The Day flashes on and off.
1. Press and Release the ▲ button to move the day forward.
2. If you go past the correct day, Press and Release the ▼ button to move the day back.
3. Press and Release the ① button to save the day and to move to Set Time Format.

Set Time Format
You have two choices:
Choice #1: For the 12-hour format, AM or PM shows.
Choice #2: For the 24-hour format, AM or PM does not show.
1. To change the Time Format, Press and Release the ▲ button or the ▼ button once.
2. Press and Release the ① button to save the Time Format and to move to Set Date Format.

Set Date Format
You have two choices:
Choice #1: For the month-day format, "-" shows with the date.
Example: "25 May" shows as "5-25".
Choice #2: For the day.month format, "•" shows with the date.
Example: "25 May" shows as "25.5".
1. To change the Date Format, Press and Release the ▲ button or the ▼ button once.
2. Press and Release the ① button to save the Date Format and to move to Measurement Units.
**Blood Glucose Measurement Units**

Consult your healthcare professional if you have any questions about the blood glucose measurement units.

This screen shows the blood glucose measurement units (mg/dL or mmol/L).

Press and Release the 1 button to return to Set Beeper.

Press and Hold the 1 button to turn your meter off.

**You have successfully set up your meter.**

---

**CHAPTER 3**

**Calibrating Your Optium Xceed Meter**

**Why Calibrate Your Meter?**
Your Optium Xceed meter must be calibrated so that it can recognise the test strip you are using. Calibration ensures that your results are accurate.

**When to Calibrate Your Meter**
- When you use the meter for the first time.
- EACH time you open and use a new box of blood glucose or blood β-Ketone test strips.

**What You Will Need**
- Optium Xceed meter.
- For glucose calibration:
  - Blood glucose test strip.
  - Blood glucose test strip instructions for use.
  - Blood glucose test strip calibrator.
- For β-Ketone calibration:
  - Blood β-Ketone test strip.
  - Blood β-Ketone test strip instructions for use.
  - Blood β-Ketone test strip calibrator.

**How to Calibrate Your Meter**
Before you insert a test strip for the first time, please note:

This means the meter is **not** calibrated for blood glucose monitoring.

This means the meter is **not** calibrated for blood β-Ketone monitoring.
**IMPORTANT:** Use only the calibrator that is packaged in the box of test strips you are using. 

**Do not** use test strips that have expired. Check the expiry date on the test strip foil packet and test strip box. If only the year and month are shown, the expiry date is the last day of the month.

1. Remove the glucose or β-Ketone calibrator package from the new box of test strips.

2. Open the calibrator package. Find the three raised bumps on the calibrator package. Peel the clear cover away from the three raised bumps.

3. Hold the calibrator (white for glucose and purple for blood β-Ketone) with the LOT number facing you.

4. Insert the calibrator into the strip port. Push it in until it stops. The Display Check shows on the display window, followed by the time, month, and day. Next, the LOT number shows on the display window.

   a. **Example** of glucose LOT number: LOT 13758

   b. **Example** of β-Ketone LOT CODE: CODE 12345

   Then you hear the beeper, if the beeper is ON.

5. Check that the LOT number on all these items matches:

   - ✓ Display window
   - ✓ Test strip calibrator
   - ✓ Test strip instructions for use
   - ✓ Test strip foil packet

   **When the LOT number on all these items matches:**

   **What It Means:**
   Calibration is complete.

   **What to Do:**
   You may now monitor your blood glucose or blood β-Ketone.

   **When the LOT number on all these items DOES NOT match:**

   **What It Means:**
   Your meter may not be calibrated for the box of test strips you are using.

   **What to Do:**
   • Check that you are using the calibrator that came in the box of test strips you are using.
   • Try to calibrate again.

**IMPORTANT:** If the LOT number still does not match, contact Customer Service. **Do not** attempt to monitor your blood glucose or blood β-Ketone. Your meter may show an incorrect result.

6. Remove the calibrator from the meter and store it in your meter’s carrying case.

**IMPORTANT:** Do not throw the calibrator away until you have used all of the test strips in the box.

If you have any trouble calibrating your system, please contact Customer Service.
How to Recall the LOT Number

1. To recall the glucose LOT number, Press and Hold the ▶ button. While holding the ▶ button, Press and Hold the ◄ button. The Display Check shows on the display window, then the glucose LOT number shows with the time, month, and day of the most recent glucose calibration.

2. After the glucose LOT number is displayed, you can recall the β-Ketone LOT number. Press and Release the ▶ button or the ◄ button. The β-Ketone LOT number shows with the word “CODE”, the time, month and day of the most recent β-Ketone calibration.

Note: If the LOT number that shows on your meter’s display window is not correct:

What It Means:
Your meter may not be calibrated for the box of test strips you are using.

What To Do:
• Re-calibrate your meter.
• Check that you are using the calibrator that came in the box of test strips you are using.

Remember, improper calibration will cause incorrect results.

3. Press and Hold the ◄ button to turn your meter off.
How to Monitor Your Blood Glucose

Getting Started

1. Prepare your lancing device.

2. Wash your hands using warm soapy water and dry them completely.

3. Remove the test strip from its foil packet.

Note: For pictures that show how to open the blood glucose test strip foil packet, please see the information card in the box of blood glucose test strips.

4. Insert the three black lines at the end of the test strip into the strip port.

5. Push the test strip in until it stops. The meter turns on automatically. These items show on the display window, one after the other:
   - Display Check – Remember to make sure that all items in the picture here show on the display window. (See Chapter 1 for more information about the Display Check.)
   - Time, month, and day (if set)
     If date and time are not set, dashes will show instead of numbers.
   - LOT number for the box of blood glucose test strips you are using.
   - Apply Sample message, which tells you that the meter is ready for you to apply blood to the blood glucose test strip.
**Obtaining A Blood Drop**

Use your lancing device to obtain a blood drop.

**Recommendations for Obtaining a Blood Drop**

- To obtain a sample from an alternative site (forearm, upper arm, or base of the thumb), use an appropriate alternative site lancing device.

- Before you obtain a blood sample from the fingertip, forearm, upper arm, or base of the thumb, make sure the sample site is clean, dry, and warm. To warm the sample site, wash it in warm water, rub the skin vigorously for a few seconds, or apply a warm pad to it.

- Hang your arm down before pricking your finger or the base of the thumb to help blood flow.

- To obtain a blood sample from the arm, use a fleshy area away from bone. Avoid areas where there is a lot of hair.

- Avoid squeezing the puncture site.

- Apply the blood sample to the test strip immediately.

**Lancets and Lancing Device**

- Lancets are for one-time use only. Use a new lancet each time you monitor.

- Discard your used lancet properly. Put it in an empty puncture-resistant container, such as a plastic milk carton or detergent bottle.

- Never share your lancing device or lancet with another person.

**Applying the Blood Drop to the Test Strip**

1. Touch the blood drop to the white area at the end of the test strip. The blood is drawn into the test strip.

   **Note:** If the meter shuts off before you apply blood to the test strip, remove the test strip from the meter and try again.

2. Continue to touch the blood drop to the end of the test strip until the meter begins the test. The meter begins the test when:
   - You hear the beeper, if the beeper is ON.
   - The display window shows the status bar.
   - Then the display window shows the countdown.

   **Note:** Do not remove the test strip from the meter or disturb it during the countdown.
Important:
If the countdown does not start:

What It Means:
You might not have applied enough blood to the test strip.

What to Do:
- Discard the test strip, turn off your meter, and try again with a new test strip.

3 At the end of the countdown:
- If the beeper is ON, listen for the beeper.
- The blood glucose result shows on the display window.
- The result is stored in your meter’s memory. You may also write the result in your logbook.

Shutting Off Your Meter

1 Removing the test strip from the strip port turns off the meter. You can use the opened foil packet to remove and discard your used test strip.

2 Discard the test strip properly.

Note: You may also turn the meter off by Pressing and Holding the button. If you do not turn your meter off or pull the test strip out, the meter shuts off automatically after 60 seconds.

Understanding Your Result

"LO" Result

What It Means:
Your meter has determined that your blood glucose result is lower than 1.1 mmol/L (20 mg/dL) or there may be a problem with the test strip.

What to Do:
Monitor your blood glucose again with a new test strip. If LO shows on the display window again, contact your healthcare professional immediately.
**Result 16.7 mmol/L or Higher**

When your blood glucose result is 16.7 mmol/L (300 mg/dL) or higher, **KETONES?** flashes on and off on the display window.

**What to Do:**
If you check your ketones as part of your diabetes management programme, it is recommended that you check your blood β-Ketone.

---

**"HI" Result**

**What It Means:**
Your meter has determined that your blood glucose result is higher than 27.8 mmol/L (500 mg/dL) or there may be a problem with the test strip.

**What to Do:**
Monitor your blood glucose again with a new test strip. If **HI** shows on the display window again, contact your healthcare professional immediately.

---

**"E4" Result**

**What It Means:**
Your meter has determined that your blood glucose may be too high to be read by the system, or there may be a problem with the test strip.

**What to Do:**
Monitor your blood glucose again with a new test strip. If **E4** shows on the display window again, contact your healthcare professional immediately.

---

**Important:**
It is recommended that you repeat the blood glucose test with a new test strip when:
- **LO** shows on the display window.
- You obtain a low blood glucose result, but you do not have symptoms of low blood glucose.
- Your meter displays a blood glucose result that is unusually low, lower than 2.8 mmol/L (50 mg/dL).
- **HI** shows on the display window.
- You obtain a high blood glucose result, but you do not have symptoms of high blood glucose.
- Your meter displays a result that is unusually high, higher than 16.7 mmol/L (300 mg/dL).
- You question your result.
- Your meter displays an error message (For example, **E-4**).

**Important:**
A result that is incorrect may have a serious medical outcome. Consult your healthcare professional before changing your diabetes medication programme.
CHAPTER 5

Monitoring Your Blood β-Ketone

It is important to check your ketones when:
• You have an illness.
• Your blood glucose is higher than 16.7 mmol/L (300 mg/dL).
• You are experiencing unusual blood glucose results.
• You and your healthcare professional determine that it is necessary.

What You Will Need
• Blood β-Ketone test strip with its instructions for use.
• Optium Xceed meter calibrated to match the LOT number of the blood β-Ketone test strip you are using.
• Lancing device and a new, sterile lancet.

Important Information about Monitoring Your Blood β-Ketone
• For more detailed information about your blood β-Ketone test strip, please refer to its instructions for use before monitoring.
• Do not use out-of-date test strips. Check the expiry date printed on the test strip box and on each test strip foil packet.
• Do not put urine on the blood β-Ketone test strip.
• Use the test strip immediately when you take it out of its foil packet.

Questions? Call Customer Support:
UK: 0500 467 466
Ireland: 1800 776633

• Do not use a wet, bent, scratched, or damaged test strip.
• Do not use the test strip if its foil packet has a puncture or tear in it.
• Use each test strip only once.
• Before you monitor, allow your meter and test strip to reach the recommended operating range of the test strip. The test strip operating range is in the “What else do I need to know?” section of your blood β-Ketone test strip instructions for use.
• Read the lancing device instructions for use.
How to Monitor Your Blood β-Ketone

Getting Started

1. Prepare your lancing device.

2. Wash your hands using warm soapy water and dry them completely.

3. Remove the test strip from its foil packet.

   Note: For pictures that show how to open the blood β-Ketone test strip foil packet, please see the information card in the box of blood β-Ketone test strips.

4. Insert the three black lines at the end of the test strip into the strip port.

5. Push the test strip in until it stops.

   The meter turns on automatically.

   These items show on the display window, one after the other:
   - Display Check – Remember to make sure that all items in the picture here show on the display window. (See Chapter 1 for more information about the Display Check.)

   - Time, month, and day (if set)
     If date and time are not set, dashes will show instead of numbers.

   - LOT number (CODE) for the box of blood β-Ketone test strips you are using.

   - KETONE and Apply Sample message, which tell you that the meter is ready for you to apply blood to the blood β-Ketone test strip.

Obtaining A Blood Drop

Use your lancing device to obtain a blood drop.

Important: Blood β-Ketone test strips have not been evaluated for alternative site monitoring. Use only fingertip blood samples for blood β-Ketone monitoring.
Recommendations for Obtaining A Blood Drop

- Before you obtain a blood sample from the fingertip, make sure the sample site is clean, dry, and warm. To warm the sample site, wash it in warm water or rub the skin vigorously for a few seconds.
- Hang your arm down before pricking your fingertip to help blood flow.
- Avoid squeezing the fingertip.
- Apply the blood sample to the test strip immediately.

Lancets and Lancing Device

- Lancets are for one-time use only. Use a new lancet each time you monitor.
- Discard your used lancet properly. Put it in an empty puncture-resistant container, such as a plastic milk carton or detergent bottle.
- Never share your lancing device or lancet with another person.

Applying the Blood Drop to the Test Strip

1. Touch the blood drop to the white area at the edge of the test strip. The blood is drawn into the test strip.

Note: If the meter shuts off before you apply blood to the test strip, remove the test strip from the meter and try again.

2. Continue to touch the blood drop to the white area at the edge of the test strip until the meter begins the test. The meter begins the test when:
   - You hear the beeper, if the beeper is ON.
   - The display window shows the status bar.
   - Then the display window shows the countdown.

Note: Do not remove the test strip from the meter or disturb it during the countdown.

Important: If the countdown does not start:

What It Means: You might not have applied enough blood to the test strip.

What to Do:
- Apply a second drop of blood to the test strip. Refer to your test strip instructions for use for the number of seconds you have to apply a second drop.
- If the countdown still does not start, or if the number of seconds you have to apply a second drop have passed, discard the test strip, turn off your meter, and try again with a new test strip.

3. At the end of the countdown:
   - If the beeper is ON, listen for the beeper.
   - The blood β-Ketone result shows on the display window with the word KETONE.
   - The result is stored in your meter’s memory as a blood β-Ketone result. You may also write the result in your logbook.
**Shutting Off Your Meter**

1. Removing the test strip from the strip port turns off the meter. You can use the opened foil packet to remove and discard your used test strip.

2. Discard the test strip properly.

**Note:** You may also turn the meter off by Pressing and Holding the button. If you do not turn your meter off or pull the test strip out, the meter shuts off automatically after 60 seconds.

**Understanding Your Result**

Blood β-Ketone is expected to be lower than 0.6 mmol/L. Blood β-Ketone may be higher when a person is ill, is fasting, exercises vigorously, or if blood glucose levels are not controlled.

- **When:** Blood β-Ketone result is between 0.6 and 1.5 mmol/L and blood glucose result is 16.7 mmol/L (300 mg/dL) or higher.

- **What It Means:** A problem requiring medical assistance may be occurring.

- **What to Do:** Contact your healthcare professional. Follow his or her instructions for sick day management.

- **When:** Blood β-Ketone result remains high or becomes higher than 1.5 mmol/L:

- **What It Means:** You may be at risk of developing diabetic ketoacidosis (DKA).

- **What to Do:** Contact your healthcare professional immediately.

- **"HI" Result**

- **What It Means:** Your meter has determined that your blood β-Ketone result is higher than 8.0 mmol/L, or there may be a problem with the test strip.

- **What to Do:** Monitor your blood β-Ketone again with a new test strip. If HI shows on the display window again, contact your healthcare professional immediately.
"E-4" Result

What It Means:
There may be a problem with the test strip.

What to Do:
Monitor your blood β-Ketone again with a new test strip. If E-4 shows on the display window again, contact your healthcare professional immediately.

Important:
It is recommended that you repeat the blood β-Ketone test with a new test strip when:
• HI appears in the display window.
• Your result is unusually high.
• You question your result.
• You obtain a 0.0 mmol/L blood β-Ketone result BUT your blood glucose is higher than 16.7 mmol/L (300 mg/dL).

Important: A result that is incorrect may have a serious medical outcome. Consult your healthcare professional before changing your diabetes medication programme.

CHAPTER 6
Doing A Control Solution Test

Why Do A Control Solution Test?
The control solution test tells you that your meter and test strips are working correctly. A control solution test is similar to when you monitor your blood glucose or blood β-Ketone, except you use an Optium or MediSense Control Solution. You do not use a drop of blood in a control solution test.

When Is Doing A Control Solution Test Recommended?
• When you question your results.
• To make sure that your meter and test strips are working properly.

Important Information about Control Solution Testing
• For more detailed information on how to obtain control solutions, please contact Customer Service in the UK on 0500 467 466, or in Ireland on 1800 776633.
• For more detailed information about control solutions, read the control solution instructions for use.
• Optium or MediSense Control Solutions may be used for glucose or β-Ketone control solution testing.
• Do not use the control solution if the expiry date has passed. Check the expiry date printed on the control solution bottle.
• When you open a control solution bottle for the first time, count forward 90 days and write this date on the control solution bottle using a pen that won’t smear or wipe off. Throw away any remaining solution after this date.
• The results obtained from control testing do not reflect your personal blood glucose or blood β-Ketone levels in any way.
• Do not swallow the control solution.
• Do not inject the control solution or use the control solution as eye drops.

What You Will Need
• Optium Xceed meter calibrated to match the LOT number of the test strip you are using
• Blood glucose or blood β-Ketone test strip and its instructions for use
• Optium or MediSense Control Solutions and instructions for use

How to Do Control Solution Testing

Getting Started
1 Wash your hands using warm soapy water and dry them completely.
2 Remove the test strip from its foil packet.

Note: For pictures that show how to open the blood glucose test strip foil packet, please see the information card in the box of test strips.

3 Insert the three black lines at the end of the test strip into the strip port.

4 Push the test strip in until it stops. The meter turns on automatically.

These items show on the display window, one after the other:
• Display Check – Remember to make sure that all items in the picture here show on the display window. (See Chapter 1 for more information about the Display Check.)
• Time, month, and day (if set)
  If date and time are not set, dashes will show instead of numbers.
• LOT number for the box of test strips you are using.
• Apply Sample message, which tells you that the meter is ready for you to apply control solution to the test strip.

Note: If you are doing a β-Ketone control solution test, KETONE will show on the meter’s display window with the β-Ketone Apply Sample message.
5 To mark the test as a control test, Press and Release the button once. shows on the display window.

**Important:** If you do not mark the test as a control test, it will be saved in your meter’s memory as one of your personal blood glucose or blood β-Ketone results. This could affect your blood glucose averages.

**Applying Control Solution to the Test Strip**

1 Turn the control solution bottle upside down three to four times to mix the solution.

2 Remove the cap.

3 Apply a drop of control solution to the test strip in the area shown here. The control solution is drawn into the test strip.

4 Continue to touch the control solution to the test strip until the meter begins the test. The meter begins the test when:
   • You hear the beeper, if the beeper is ON.
   • The display window shows the status bar.
   • Then the display window shows the countdown.

**Note:** Do not remove the test strip from the meter or disturb it during the countdown.

**Important:** If the countdown does not start:

**What It Means:**
You might not have applied enough control solution to the test strip.

**What to Do:**
• Discard the test strip, turn off your meter, and try again with a new test strip.

5 At the end of the countdown:
   • If the beeper is ON, listen for the beeper.
   • The control result shows on the display window.

**Note:** If you are doing a β-Ketone control solution test, KETONE will also show with the result.

• The result is stored in your meter’s memory as a control result. In your logbook, record the result as a control result.
Shutting Off Your Meter

1 Removing the test strip from the strip port turns off the meter. You can use the opened foil packet to remove and discard your used test strip.

2 Discard the test strip properly.

Note: You may also turn the meter off by Pressing and Holding the button. If you do not turn your meter off or pull the test strip out, the meter shuts off automatically after 60 seconds.

Understanding Your Result

Compare the control result to the “Expected Results for Use with Optium or MediSense Control Solutions” range printed on:
• The blood glucose test strip instructions for use, for glucose control solution testing.
• The blood β-Ketone test strip instructions for use for β-Ketone control solution testing.

If the control result falls within the range:
What It Means
Your meter and test strips are working correctly.

If the control result does not fall within the range:
What It Means
Your meter and test strips may not be working correctly.

What to Do
Repeat the test with a new test strip and ensure the control solution testing instructions are followed completely. If the result is still not within the printed range, contact Customer Service.

What Can Your Meter Show You?

Memory
Your Optium Xceed meter has a memory that stores up to 450 events. This is a combination of control results, your personal blood glucose and blood β-Ketone results, and other meter information.
You can review up to 450 of your most recent events on your meter’s display window.

Glucose Averages
You can view the average of all your blood glucose results from the last 7, 14, or 30 days. If you marked your control solution tests, the averages do not include control solution results. (For more information on marking control solution tests, see Chapter 6.)

IMPORTANT:
• To review blood glucose averages, you must set the date and time before monitoring.
• If you do not mark control solution tests, this may affect your glucose averages.
• Blood glucose averages do not include blood β-Ketone results, glucose control results, β-Ketone control results, or results that do not show the time, month, and day.
• When there are no previous results or blood glucose averages to review, the display window shows three dashes.
How to See Results in Memory

1. Begin with your meter turned off. Make sure there is nothing in the strip port.

2. Press and Release the button.
   - The Display Check shows on the display window.
   - Then your most recent result shows with its units on the meter’s display window, along with the time, month, and day that you got the result. (To set the correct date and time, follow the steps in Chapter 2.)

A blood glucose result in Memory will show with the letters MEM.

A blood β-Ketone result in Memory will show with the letters KET MEM.

3. To review previous results, Press and Release the button once per result.

4. When you reach the last result in Memory, the display window shows three dashes.

5. To return to a result you previously reviewed, Press and Release the button once per result.

A control solution result in Memory shows with a control bottle, as long as you marked the test as a control solution test.
**How to See Averages**

**Important:**
- Results that show as LO during blood glucose monitoring are included as 1.1 mmol/L (20 mg/dL) in blood glucose averages.
- Results that show as HI during blood glucose monitoring are included as 27.8 mmol/L (500 mg/dL) in blood glucose averages.

1. While in Memory, Press and Release the 1 button at any time to see the 7-Day average of your blood glucose results.

**Note:** n means how many tests were performed within the 7-, 14-, or 30-Day average period.

2. Press and Release the button once to see the 14-Day average of your blood glucose results.

3. Press and Release the button again to see the 30-Day average of your blood glucose results. If you Press and Release the button again, the display window shows the 7-Day average.

4. Press and Release the 1 button at any time to return to Memory.

5. Press and Hold the 0 button to turn off your meter. Otherwise, the meter turns off after 30 seconds.

**Transferring Your Results to a Computer**

Download of test results to a computer requires a compatible data management system. For more information, please go to our website or call Customer Care.
There are times when error messages may show on your meter’s display window.

In the next few pages, we describe the error messages that may show on your meter’s display window, what they mean, and what you need to do.

<table>
<thead>
<tr>
<th>Message</th>
<th>What It Means</th>
<th>What You Need to Do</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-1</td>
<td>Temperature is too hot or too cold for the system to work properly.</td>
<td>• Move your meter and test strips to a location where the temperature is appropriate and monitor again with a new test strip. You may have to wait for your meter to adjust to the new temperature. Refer to your test strip instructions for use for the appropriate operating range. • If the error message appears again, contact Customer Service.</td>
</tr>
<tr>
<td>E-2</td>
<td>Meter error.</td>
<td>• Turn the meter off, then repeat previous monitoring steps. • If the error message appears again, contact Customer Service.</td>
</tr>
<tr>
<td>E-3</td>
<td>There may be a problem with the test strip.</td>
<td>• Review the monitoring instructions. • Monitor again with a new test strip. • If the error message appears again, contact Customer Service.</td>
</tr>
<tr>
<td>E-4</td>
<td>Blood glucose result may be too high to be read by the system. OR There may be a problem with the blood glucose or blood β-Ketone test strip.</td>
<td>• Monitor again with a new test strip. • If the error message appears again, contact your healthcare professional immediately.</td>
</tr>
<tr>
<td>Message</td>
<td>What It Means</td>
<td>What You Need to Do</td>
</tr>
<tr>
<td>---------</td>
<td>---------------</td>
<td>---------------------</td>
</tr>
</tbody>
</table>
| E-5     | Blood applied to test strip too soon. | • Review the monitoring instructions.  
• Monitor again with a new test strip.  
• If the error message appears again, contact Customer Service. |
| E-6     | Calibration/Test strip error. | • Repeat the calibration using the calibrator bar that came with the test strip you are using.  
• Check the date setting on your meter.  
• Check the expiry date on the test strip foil packet.  
• If the error message appears again, contact Customer Service. |
| E-7     | Test strip error. Test strip is damaged, used, or the meter does not recognize it. | • Monitor again using a test strip designed for use with Optium Xceed.  
• If the error message appears again, contact Customer Service. |
|        |               | • Remove test strip, turn meter off, and try to monitor again.  
• If the error message appears again, contact Customer Service. |
CHAPTER 9

Your Meter’s Specifications & Limitations

Questions? Call Customer Support:
UK: 0500 467 466
Ireland: 1800 776633

Specifications & Limitations

Size
Length
Width
Top
5.33 cm
Bottom
4.32 cm
Thickness
1.63 cm

Weight
40 - 46 grams

Power Source
One CR 2032 Lithium (coin cell) battery

Battery Life
Approximately 1,000 tests

Memory
Up to 450 events including control results, personal blood glucose and blood β-Ketone results, and other meter information.

Storage
Temperature
Meter: –25º to 55ºC
Test Strips:
See test strip instructions for use.
Control Solution:
See control solution instructions for use.

Blood Glucose Assay Range
See blood glucose test strip instructions for use.

Blood β-Ketone Assay Range
See blood β-Ketone test strip instructions for use.

Control Solution Range
See blood glucose or blood β-Ketone test strip instructions for use.

Functions
- Blood glucose monitoring
- Blood β-Ketone monitoring
- Memory: 450 events
- Glucose averaging: 7-Day, 14-Day and 30-Day Averages
- Control solution marking and testing
- Backlight: If ON – Stays ON during countdown; turns OFF 30 seconds after result is displayed. If OFF – Stays OFF during countdown; stays OFF during data upload.
- Beeper: If ON – Beeps when calibrator is fully inserted and when countdown starts and finishes.

Data port
Yes

Meter Operating Range
Temperature: 10º to 50ºC
Relative Humidity: 10% to 90%, non-condensing

System Operating Range
Temperature: The system operating range is the operating range of the test strip you are using. See “Limitations of Procedure” section in test strip instructions for use.
Relative Humidity: 10% to 90%, non-condensing
Important Information about Using Blood Samples from the Forearm, Upper Arm, or Base of the Thumb:

• Contact your healthcare professional before you begin using any one of these alternative sites to test your blood glucose.

• Sampling from any one of these alternative sites may cause minor bruising and may leave marks that go away in a short time.

• There may be times when alternative site results are different from fingertip results. This happens when blood glucose levels change rapidly (for example, after you eat a meal, after you take insulin, or during or after exercise).

• Use alternative sites to monitor your blood glucose before, or more than two hours after, you eat a meal, take insulin, or exercise.

• Do not use blood samples from alternative sites when:
  1. You think your blood glucose is low or is changing rapidly,
  2. You have been diagnosed with hypoglycemic unawareness,
  3. The results from alternative sites do not match the way you feel,
  4. It is within two hours of eating a meal, taking insulin, or exercising, or
  5. You monitor your blood β-Ketone.

Cleaning Your Meter
Store your meter in its carrying case. If the surface of your meter gets dirty, you may clean it. Use a damp cloth and mild soap. Healthcare professionals: Acceptable cleaning solutions include 10% Bleach, 70% Alcohol, or 10% Ammonia.

Important:
Do not try to clean the strip port.
Do not pour liquid into the strip port or buttons.
Do not place your meter in water or any other bath.

Replacing Your Meter’s Battery
When your meter needs its batteries replaced, the display window shows one of two things:

This means the battery is low. You may still use your meter and the results will be accurate. However, the backlight is not useable. It is recommended that you replace the battery at this time.

This means the battery must be replaced. The meter is not useable. The meter turns off automatically.

Important:
Do not remove the old battery until you have a new battery to install. It may be necessary to reset the time and date once you install a new battery.
How to Replace Your Meter’s Battery

If your meter includes a plastic tab, use these directions.

1. Gently push the battery cover in and up with your thumb.

2. Lift the battery cover out of the meter.

3. Pull on the plastic tab sticking out of the meter to remove the old battery.

4. Insert a new CR 2032 Lithium (coin cell) battery with the plus sign (+) facing up.

If your meter has no plastic tab follow these directions.

1. Gently push the battery cover in and up with your thumb.

2. Lift the battery cover out of the meter.

3. To remove the battery, push the battery upward to release the battery.

4. Insert a new CR 2032 Lithium (coin cell) battery with the plus sign (+) facing up.

5. Place the notches on the battery cover into the appropriate moulded areas.

6. Gently push the battery cover in and down until you hear a click.

7. Press and Hold the button to turn your meter on. If your meter does not turn on, review the battery installation steps and reinstall the battery.

8. Check the date and time on your meter. You may automatically be prompted to reset the time and date when you first press the mode button to turn your meter on. (See Chapter 2, Setting Up Your System).

9. Be sure to discard the old battery in compliance with your local council’s regulations.

The European Battery Directive requires separate collection of spent batteries, aiming to facilitate recycling and to protect the environment.

The batteries in this product should be removed and disposed in accordance with local regulations for separate collection of spent batteries.
Support & Guarantee

Support

Abbott Laboratories is committed to providing you with support. Call us with any questions you may have about your Optium Xceed meter: In the UK, 0500 467 466, in Ireland, 1800 776633.

Outside the UK and Ireland, please contact your local Abbott Diabetes Care office or distributor.

You can also visit us online at www.diabetesnow.co.uk or www.diabetesnow.ie, or email us at customerservices@diabetesnow.co.uk.

Guarantee

Abbott Laboratories (Abbott) guarantees that the Optium Xceed Meter shall be free from defects in material and workmanship for a period of two (2) years (24 months) from the date of purchase. Abbott’s sole obligation shall be limited to replacing the defective meter with a new or reconditioned unit. The guarantee extends only to the original purchaser and is not assignable or transferable, and shall not apply to auxiliary equipment or disposable accessories.

Abbott guarantees that the equipment is fit for the purpose and indications described in the labelling when used in accordance with the directions for use. Unless the equipment is used in accordance with such instructions, this guarantee is void and of no effect. Abbott guarantees the performance of the Optium Xceed Meter if it is used as directed and provided that the failure to perform or misperformance of the Optium Xceed Meter has not been caused in whole or in part by the use of test strips that are not Optium Plus test strips manufactured by Abbott Laboratories, Products. In the unlikely event that your Optium Xceed Meter should fail, it will be replaced free of charge.

Contact us on our freephone helpline number Monday - Friday, 08.00 - 17.30.

In the UK: 0500 467 466.
In Ireland: 1800 776633.

References


Appendix

**Glossary of Symbols**

There are special symbols that are associated with your Optium Xceed Blood Glucose and Blood β-Ketone Monitoring System:

- **This Way Up**
- Represents the limitations of temperature for storage.
- **Lot Number**
- **Expiry Date**

CE mark applies to the Medical Device Directive 93/42/EEC. The product meets the requirements of 93/42/EEC.

- **Attention:** Refer to manual prior to use.
- **Discard after single use. Use only once.**
- **Re-order Number**

Date of Manufacture

Do Not Drink

Legal Manufacturer

Refer to Manual

Recyclable

For *in vitro* diagnostic use only.

Sterilised Using Irradiation (Lancets only).

Biological risk.

Battery Disposal