



Prime

Blood Glucose Monitoring System

User Instruction Manual



CAUTION:

Before using any product to test your blood sugar (blood glucose), read all instructions and practice the test. Do all quality control checks as directed and consult with a diabetes healthcare professional. These recommendations apply to all blood glucose monitoring systems and are supported by the American Association of Diabetes Educators, the American Diabetes Association, the U.S. Food and Drug Administration, and the Health Industry Manufacturers Association.

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INTRODUCTION

Thank you for choosing the ReliOn® Prime Blood Glucose Monitoring System. Frequent blood glucose testing is important. It tells you how your diabetes is affected by factors such as medication, diet, exercise, and stress management. Blood glucose test results can also tell you if your diabetes is changing in ways that affect your treatment plan. **Always consult your diabetes healthcare professional before making any changes.** All of the information needed to use the ReliOn® Prime System is included in this manual. Please read it thoroughly before using the system. If you have any questions, call Customer Service at 800.631.0076 (24 hours a day, 7 days a week). Contact your healthcare professional with questions if you are unable to reach Customer Service.

Intended Use

The ReliOn® Prime Blood Glucose Monitoring System is intended for the quantitative measurement of glucose in fresh capillary whole blood samples drawn from the fingertips or palm. Testing is done outside the body (*In Vitro* Diagnostic Use). It is indicated for use at home (over the counter [OTC]) by persons with diabetes, or in clinical settings by healthcare professionals, as an aid to monitor the effectiveness of diabetes control. It is not intended for the diagnosis of or screening for Diabetes Mellitus, and is not intended for use on neonates.

Important Information

- Test results below 70 mg/dL indicate low blood glucose (hypoglycemia)
- Test results above 240 mg/dL indicate high blood glucose (hyperglycemia)
- If results are below 70 mg/dL or above 240 mg/dL, repeat the test
- If results continue to measure below 70 mg/dL or above 240 mg/dL consult your diabetes healthcare professional immediately
- If symptoms are not consistent with test results AND all the instructions have been followed carefully, contact your diabetes healthcare professional
- Before testing, always make sure both the meter and test strips are at operating temperature

THE ReliOn® Prime SYSTEM

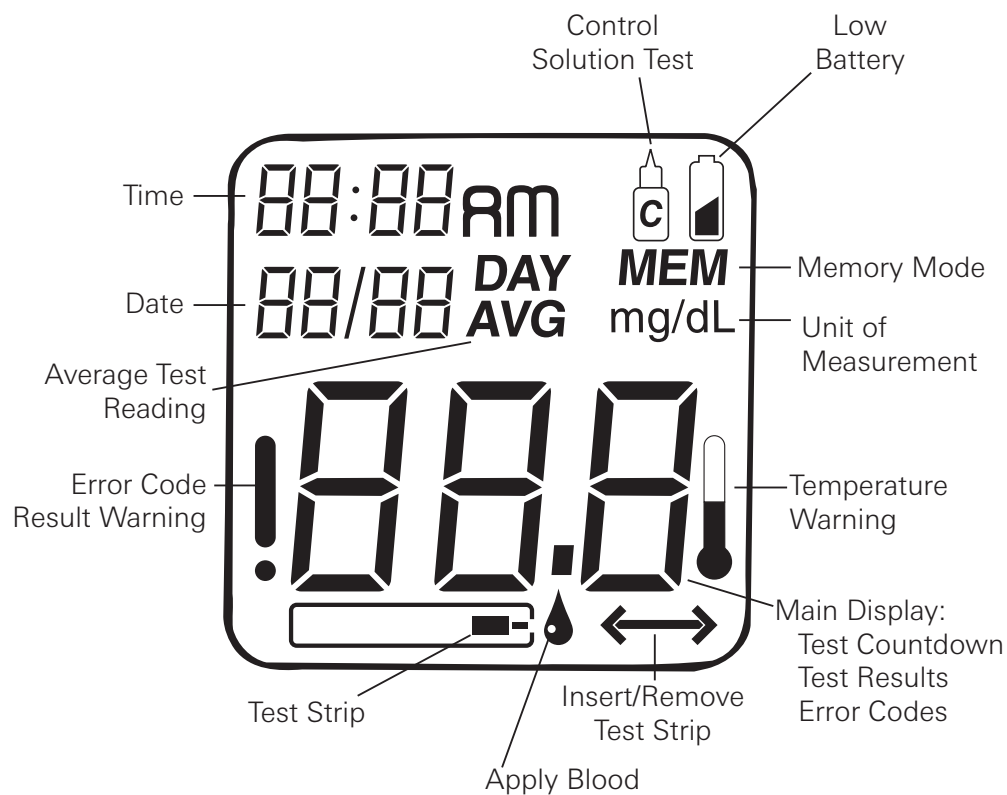
The ReliOn® Prime System Includes:

- ReliOn® Prime Meter
- Carrying Case
- User Instruction Manual
- Other materials required but not provided:
 - Test Strips
 - Control Solution
 - Lancing Device and/or Lancets

UNDERSTANDING THE ReliOn® Prime BLOOD GLUCOSE METER



Explanation of the Full Display Screen

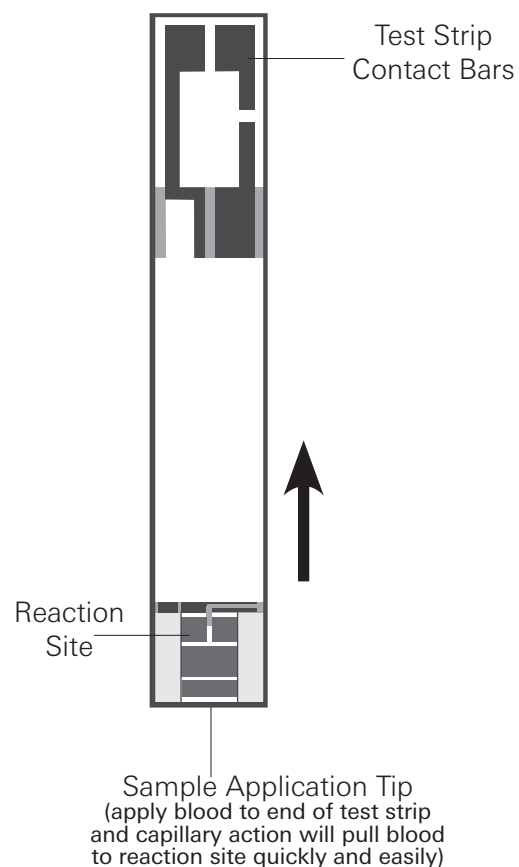


If any part of the display screen is missing when the meter is turned on call Customer Service at 800.631.0076.

ReliOn® Prime TEST STRIPS

These capillary action test strips require only 0.5 micro-liter (μl) of blood and provide an end-fill sample application tip for easy blood application. The ReliOn® Prime Blood Glucose Monitoring System measures the amount of glucose (sugar) in fresh capillary whole blood. When a drop of blood is added to the sample application tip, the sample is drawn into the test strip reaction site. The glucose in the blood reacts with the enzyme on the test strip. This reaction produces a current, proportional to the amount of glucose in the blood. The meter detects the current and converts it into a blood glucose reading.

TEST STRIP



TESTING WITH ReliOn® Prime TEST STRIPS

The ReliOn® Prime Blood Glucose Monitoring System works with the ReliOn® Prime Test Strips.

Important Test Strip Information

- Store the test strip bottle in a cool, dry place between 39°F–86°F (4°C–30°C)
- Keep away from direct sunlight and heat
- Do not refrigerate or freeze
- Do not store or transfer the test strips outside the original bottle
- As soon as you have removed a test strip, replace the cap securely on the bottle
- Use test strips within 90 days (3 months) of opening and not beyond the expiration date ( Exp.)

Important Test Strip Information

- Write the date of opening on the bottle label to remind you to discard the strips after 90 days (3 months)
- Do not bend, cut, or alter a test strip
- Do not reuse a test strip
- Use only ReliOn® Prime Test Strips with the ReliOn® Prime Meter
- Ensure your hands are clean and dry before handling test strips

Changing the Battery

The ReliOn® Prime Blood Glucose Meter has a CR2032 battery installed.

Note:

Changing the battery should only take a few seconds. If the battery is changed within 30 seconds, the meter memory is not affected. You will not lose any past test results and the settings are not affected.

However, if it takes longer than 30 seconds to change the battery, or if the battery is dead before changing it, the time and date settings may need to be reset.

The first time the meter is turned on after changing the battery, you may see a display screen message (E00). This means you should check that the time and date are correct. (See pages 18-21 for detailed instructions on changing the time and date).

WARNING:

Keep all batteries out of children's reach. If a battery is swallowed, consult a doctor immediately.

When the battery power is getting low, your meter shows . You have enough power for about 100 tests before you need to replace the battery.

If the  is flashing, there is only enough power for about 20 tests. Replace the battery as soon as possible.

When the battery has run out, the meter will not work.



How to Change the Battery

Step 1

Turn the meter off. The battery cover is on the back of the meter.

Step 2

Pull the battery cover up with your finger or fingernail. Remove battery cover.

Step 3

Remove the old battery. If necessary, turn the meter over and tap it gently against the palm of your hand until the battery falls out. Avoid the use of sharp objects that may damage the meter.

Step 4

Insert the new battery. The “+” on the battery should be facing up.

Step 5

Replace the battery cover.

Meter Set Up

Before using the ReliOn® Prime Meter for the first time, you must set the time and date. You can choose between the 12-hour format (1-12 o'clock with am or pm) and the Military 24-hour format (0-23). The date format can either be displayed as month/day (U.S.A. format) or day/month (International format). Do not perform a blood glucose test until you have set the meter correctly.

Setting the Time and Date

Step 1: *Turn on meter*

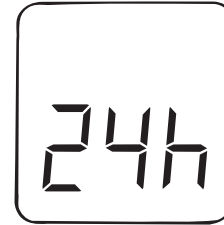
Press the On/Off button to turn the meter on. The full screen appears briefly. If any part of the display screen is missing (see page 11), call Customer Service. The meter then displays the time, date, unit of measurement, and the insert test strip symbol.

Step 2: *Enter set-up mode*

Press and hold down the On/Off button for more than 2 seconds to enter the set-up mode.

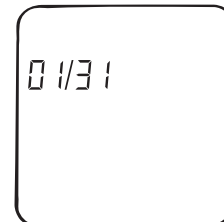
Step 3: *Set the time format*

The time can be displayed in either 24-hour format or 12-hour format with AM and PM. The meter displays the current time format. To change format, press either the Back or Forward button. Press the On/Off button to select the time format. The date format then appears on the display.

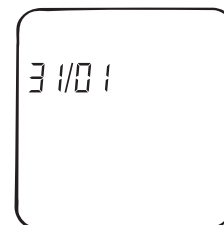


Step 4: *Set the date format*

The date format can either be displayed as month/day (01/31) or day/month (31/01). The meter displays the current format. To change format, press either the Back or Forward button. Press the On/Off button to select the date format. The hour setting then flashes on the display.



Month/Day Format



Day/Month Format

Step 5: Set the hour

Press and release the Back or Forward button to change the hour. Hold the Back or Forward button down to scroll through quickly. When the correct hour is displayed, press the On/Off button. The minute setting then flashes on the display.



Hour flashing

Step 6: Set the minute

Press and release the Back or Forward button until the correct minute appears. Hold the Back or Forward button down to scroll through quickly. When the correct minute is displayed, press the On/Off button. The month setting then flashes on the display.



Minute flashing

Step 7: Set the month (If day/month format is selected then Step 7 will set day)

Press and release the Back or Forward button until the correct month appears. Hold the Back or Forward button down to scroll through quickly. When the correct month is displayed, press the On/Off button. The day setting then flashes on the display.



Month flashing

Step 8: *Set the day*

(If day/month format is selected then Step 8 will set month) Press and release the Back or Forward button until the correct day appears. Hold the Back or Forward button down to scroll through quickly. When the correct day is displayed, press the On/Off button. The year setting then flashes on the display.



Day flashing

Step 9: *Set the year*

Press and release the Back or Forward button until the correct year appears. Hold the Back or Forward button down to scroll through quickly. When the correct year is displayed, press the On/Off button for two seconds to exit set up mode.



Year flashing

Note:

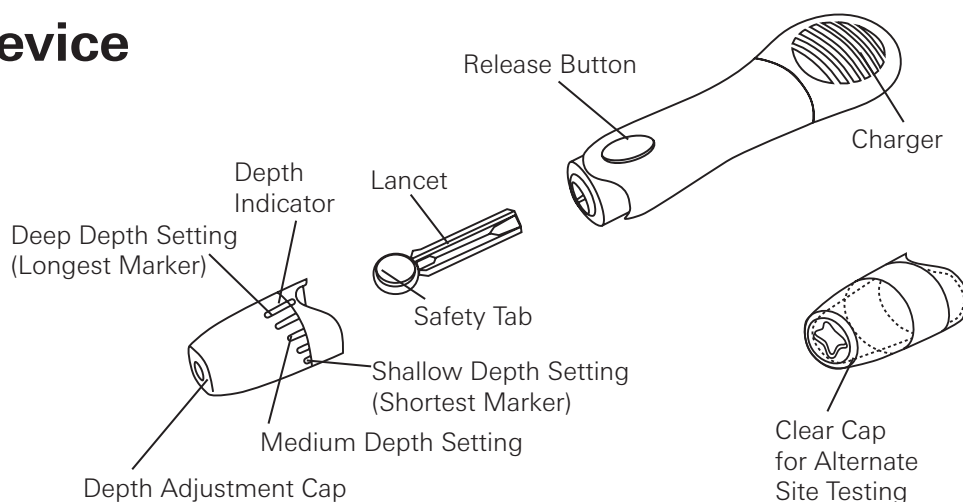
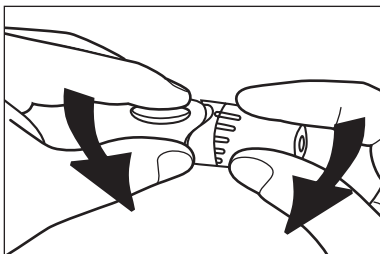
Pressing the On/Off button for more than 2 seconds at any stage saves the time and date and exits the set-up mode. The meter automatically shuts off after 2 minutes if no buttons are pressed. Settings stored up to that point are saved.

BLOOD GLUCOSE TESTING

ReliOn® Lancing Device

Step 1

Pry the depth adjustment cap sideways to remove it.

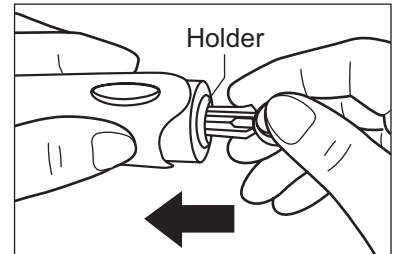


NOTE: Do not use the lancet if the cap is missing or damaged.

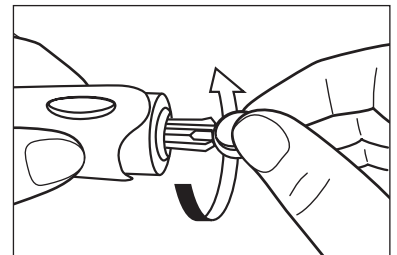
NOTE: Lancing device is for single-patient use only and should never be shared with another person, even a family member. This lancing device should not be used for multiple patient testing by healthcare providers or at healthcare provider sites.

Step 2

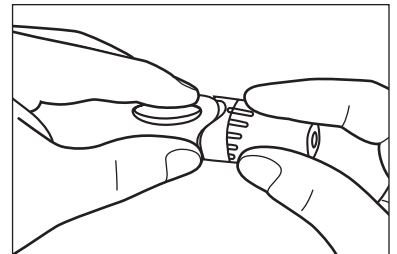
Insert a new, unused lancet into the Holder until it stops.

**Step 3**

Twist off the safety tab.

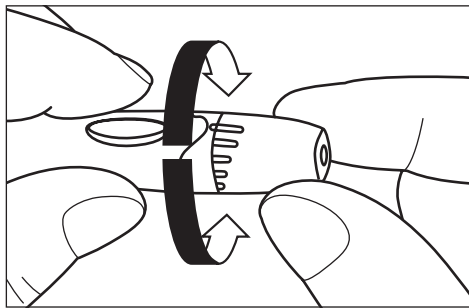
**Step 4**

Attach the depth adjustment cap.

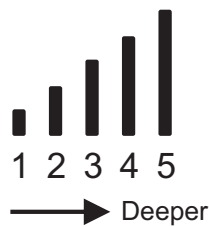


Step 5

Adjust the depth of puncture setting if necessary. If the obtained amount of blood is excessive, turn the dial to a lower setting. If the obtained amount of blood is insufficient, turn the dial to a larger setting.



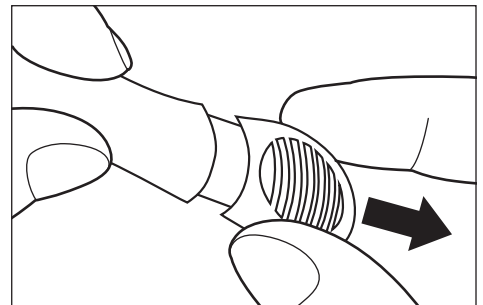
Level indications



There is no numeric inscription on the Lancing Device.

Step 6

Pull the charger to reset the device. You may hear a click.



Obtaining a Drop of Blood

Step 1

Wash hands with soap and warm water. Dry hands thoroughly. If you use alcohol wipes to cleanse fingers, make sure the area is dry before lancing finger. Residual alcohol may lead to inaccurate readings.



Step 2

Let the arm hang down for 10 to 15 seconds. (Holding the arm below the heart and massaging the wrist, palm and finger makes it easier to obtain a blood drop).

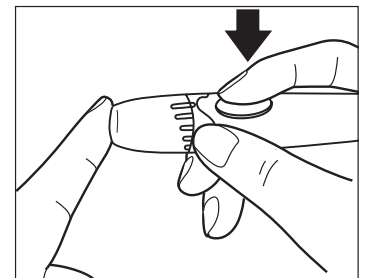


Step 3

Choose a site on the side of a fingertip to minimize pain.

Step 4

Press the depth adjustment cap to the side of the fingertip. Push the release button.



Step 5

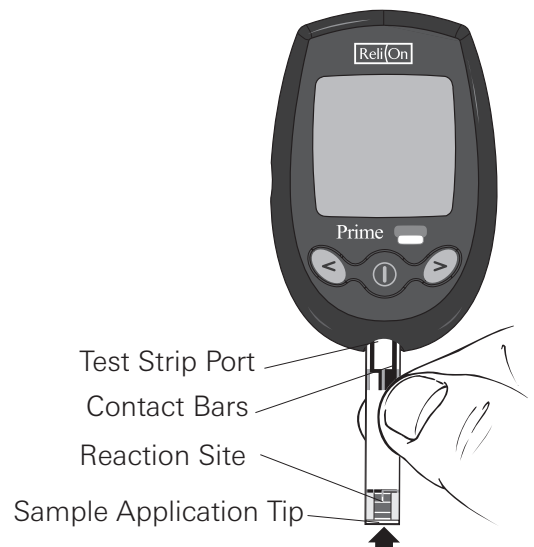
Set aside the Lancing Device and wait a few seconds for a blood drop to form. Keeping the hand warm, lowering the hand to waist level and gently massaging your wrist, palm or the base of the finger helps the flow of blood. Use a different site each time you test to help prevent soreness and calluses.

PERFORMING A BLOOD GLUCOSE TEST

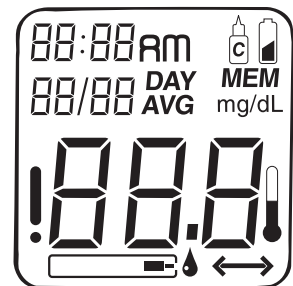
Note: For Instructions on Alternate Site Testing, refer to pages 31-38.

Step 1

Insert a ReliOn® Prime Test Strip into the meter. Insert the contact bars into the test strip port, with the reaction site facing up.



When the test strip is inserted, the meter turns on automatically. If any part of the display screen is missing (see page 11), call Customer Service.

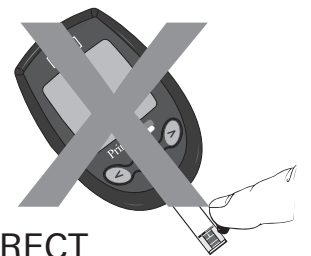
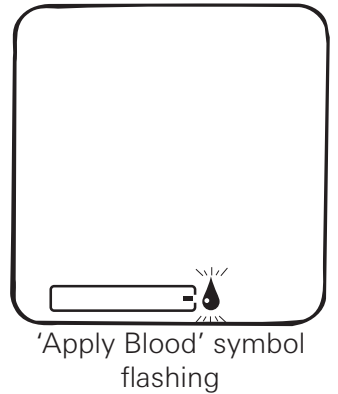


The test strip and flashing blood drop tells you the meter is ready for you to apply a drop of blood to the sample application tip at the end of the test strip.

Step 2

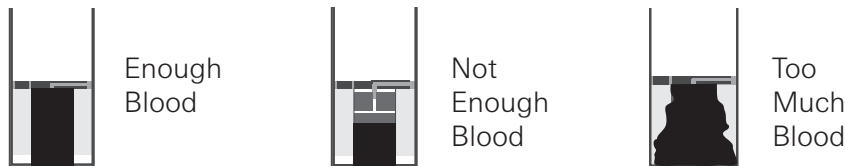
Lance your finger using the Lancing Device. Touch the sample application tip at the end of the strip to the blood drop on your finger. The capillary action will pull the blood to the reaction site.

DO NOT add blood to the top of the test strip. You may receive an abnormal (high) result.

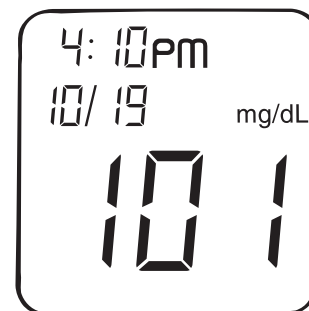


IMPORTANT: The meter will start to count down, showing a flashing dash when it detects that blood has been applied. Discard test strip if meter does not start to count down after blood drop is applied.

IMPORTANT: The minimum sample volume is 0.5 μL . Smaller samples may not start the meter or can start the meter count down and provide an "E13" error message. Ensure blood completely fills reaction site.



The meter will count down showing a flashing dash. The result is displayed in 7 seconds.



Displaying the Result

Step 3

Always record your results in your self-testing logbook along with other information such as insulin dosage, diet, and exercise. The result is automatically stored in memory with the time and date.

Step 4

A lancet should be used once. After use, put protective cap back on and remove lancet from lancing device. Dispose lancet in a safe manner as not to cause accidental injury. Remove the used test strip and dispose of it carefully. The meter shuts off automatically when the test strip is removed.

ALTERNATE SITE TESTING (AST)

Important Information About AST

Sites other than your fingertip may have fewer nerve endings so obtaining a blood sample from these sites may be less painful. The technique for alternate site testing is different from fingertip testing. Blood glucose results from sites other than your fingertip could be significantly different due to blood glucose levels changing rapidly after a meal, insulin, or exercise.

Consult with your diabetes healthcare professional prior to testing from a site other than your fingertips.

Results obtained from sites other than the fingertip may differ significantly as is the case with all blood glucose monitoring systems. Rapidly changing results are likely to occur after eating. Insulin dosing and physical activity are shown in the fingertip more quickly than in alternate sites.

On average, blood taken from the palm may give results as much as 5% higher than blood taken from the fingertip.

Consider Alternate Site Testing When:

- Testing before a meal
- You are in a fasting state
- Two hours have passed since a meal
- Two hours have passed since insulin dosing
- Two hours have passed since physical activity

Use Fingertip When Testing:

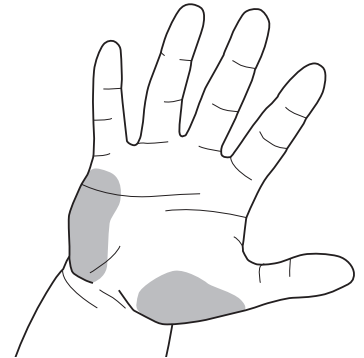
- Within two hours after a meal
- Within two hours after insulin dosing
- Within two hours after physical activity
- If you have a history of hypoglycemia, are experiencing low blood sugar, or suffer from hypoglycemic unawareness (you cannot tell when you have low blood glucose)
- To confirm your blood glucose level if your AST result is not consistent with how you feel
- During times of stress or illness

Ask your diabetes healthcare professional about recommended testing procedures before operating machinery or driving a car, as fingertip testing is usually the preferred method of testing under these circumstances.

If bruising occurs, you may choose to lance a fingertip instead.

Preparing to Test Your Blood Glucose From an Alternate Site

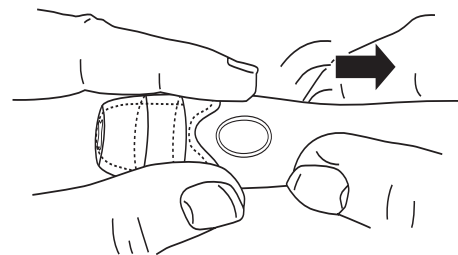
Choose a Site: Select a soft, fleshy area on the palm that is free of visible veins and moles and away from bone. Wash the area with warm, soapy water. Rinse and dry completely. If you use alcohol wipes to cleanse the site, make sure the area is dry before lancing the site.



Performing a Blood Glucose Test From an Alternate Site

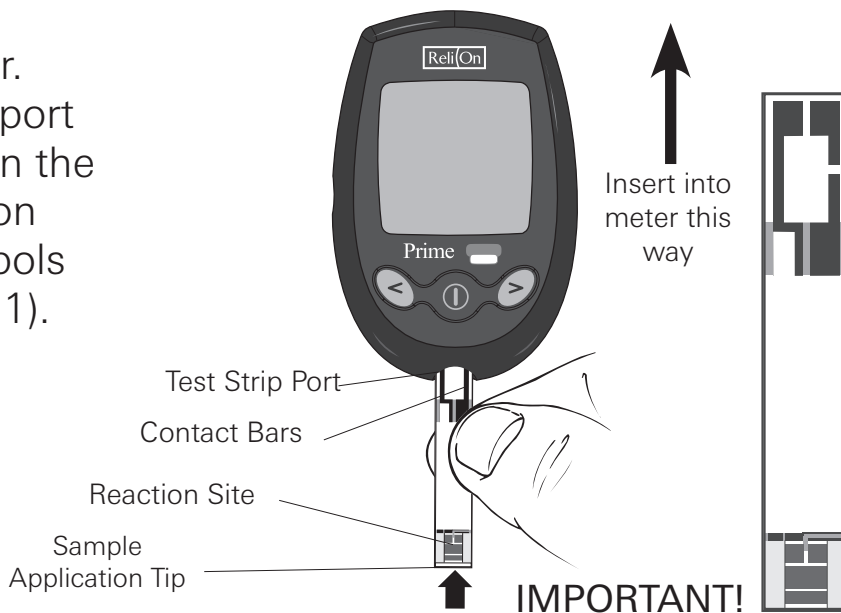
Step 1

Attach clear cap for Alternate Site Testing to lancing device. Insert lancet and cock lancing device.



Step 2

a) Insert a test strip into the meter. Insert contact bars into test strip port with reaction site facing up. When the strip is inserted, the meter turns on automatically. Make sure all symbols appear on the screen (see page 11).



b) Wait until strip with flashing blood drop appears.
(You now have 2 minutes to apply blood drop before meter shuts off).

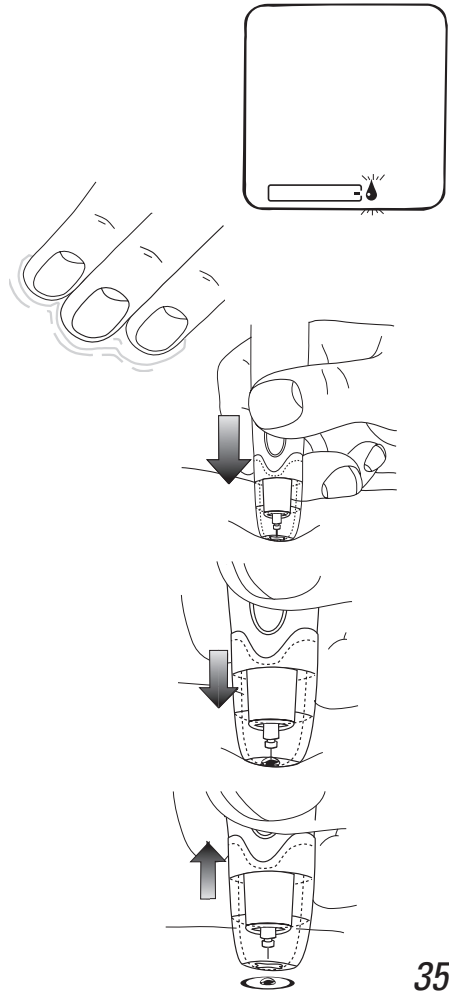
Step 3

a) Vigorously rub the selected area for 5 to 10 seconds until it starts to feel warm to the touch.

b) Firmly hold the cocked lancing device against the clean skin for 5 to 10 seconds.

c) Press the release button on the lancing device to lance the skin. Continue to hold the lancing device firmly against the skin until a 0.5 μ L blood drop forms

d) Once a large enough drop of blood has formed, remove the lancing device.



Step 4

Pick up the meter. Touch the end of the test strip to the blood sample until the reaction site is full. Immediately remove the meter and test strip from the blood drop.



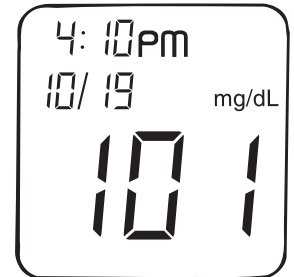
IMPORTANT

- Was the sample a deep red color and free of watery fluid?
- Was the drop large enough (at least 0.5 μL)?
- Did the reaction site fill with enough blood all at once?

IF NOT, REPEAT TEST.

Step 5

The meter will count down, showing a flashing dash and display result in 7 seconds.



CONSIDER YOUR RESULT.

REPEAT ALTERNATE SITE TEST:

- IF the blood sample appeared to be diluted with clear fluid.
- IF you did not vigorously rub the test site.
- IF the blood drop was not large enough to fill the reaction site
- IF the test was accidentally marked as a "Control" result.
- IF your result was not consistent with how you feel.

Any of the above situations can lead to an inaccurate test result.



Enough
Blood



Not
Enough
Blood



Too
Much
Blood

If the repeated alternate site result is still not consistent with how you feel, confirm your blood glucose level with fingertip testing.

Step 6

Always record your results in your self-testing log book along with other information such as insulin dosage, diet, and exercise. The result is automatically stored in memory with the time and date.

Step 7

Remove the test strip and dispose of it carefully. A lancet should be used once. After use, put protective cap back on and remove lancet from lancing device. Dispose lancet in a safe manner as not to cause injury. The meter shuts off automatically when the test strip is removed.

USING CONTROL SOLUTION

Use Control Solution to check that the meter and test strips are working correctly. It is important that you carry out this simple check regularly.

Control Solution contains a known amount of glucose that reacts with the ReliOn® Prime Test Strip. Control Solutions are available in two levels - Normal and High.

Compare the control solution test results with the range printed on the test strip bottle label.

To order control solution, call ReliOn® at 800.631.0076.

It is recommended to use Control Solution:

- When you open a new bottle of test strips.
- Whenever you suspect the meter or test strips may not be functioning properly.
- If test results appear to be abnormally high or low or are not consistent with clinical symptoms.
- If the test strip bottle has been left open or has been exposed to light, temperatures below 39°F(4°C) or above 86°F(30°C), or humidity levels above 80%.
- To check your technique.
- When the ReliOn® Prime Meter has been dropped or stored below freezing or above 122°F(50°C).
- Each time the batteries are changed.

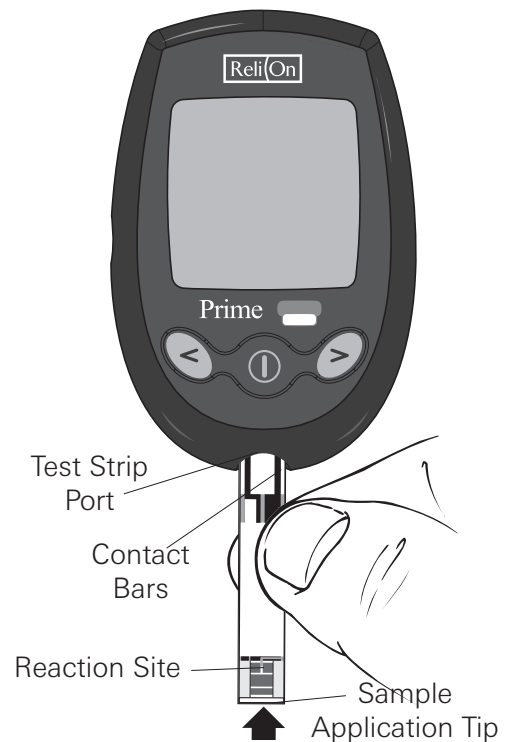
Performing a Control Solution Test

Before performing a control solution test, always check the expiration date ( Exp.) of the control solution. Do not use control solution if it is past the expiration date or if the solution has not been stored correctly. When you open a new bottle of control solution, always write the date of opening on the control solution label. As soon as you have used the control solution, put the cap back on the bottle. Always use the control solution within 90 days (3 months) of first opening.

Step 1

Insert a ReliOn® Prime Test Strip into the test strip port of the meter with contact bars facing up. The meter turns on automatically.

The full screen appears briefly. If any part of the display screen is missing (see page 11), call Customer Service. The screen then displays the test strip symbol and flashing blood drop.



Step 2

You must press the Back or Forward button **BEFORE** performing control solution test.

Hold the Back or Forward button until  appears in the upper right corner of the screen. **Verify that  remains displayed on the screen.** If you do not do this, the control solution result will NOT be valid.

 will prompt you to add control solution.

Step 3

Mix control solution by gently inverting control solution bottle several times. Remove the cap from the control solution bottle. Place cap on flat surface. Squeeze the bottle and discard the first drop. Apply the second drop to the top of the cap.



Step 4

Bring meter and test strip to the drop. Test strip will draw up the solution. The meter will show result in 7 seconds.

Note: Dye added to control solution may stain surfaces or fabric. Use with care.

Step 5

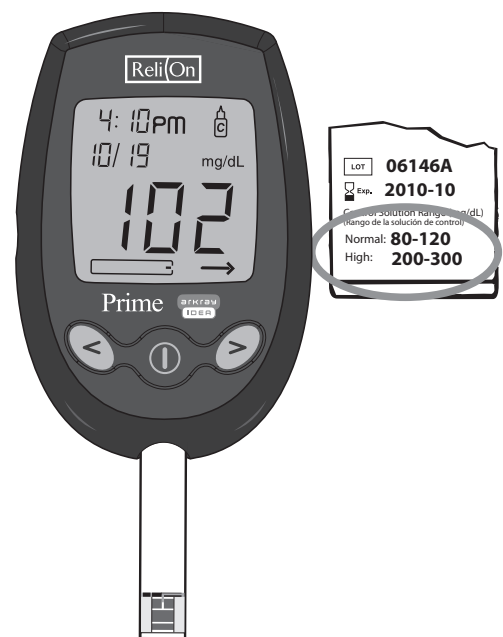
Compare the result with the range printed on the test strip bottle you are using. Values may vary from bottle to bottle. Verify that the result is within range of the control solution level that you are using. If the result falls within the range on the bottle, the meter is working correctly.

Step 6

Remove the test strip. The meter shuts off automatically when the test strip is removed.

Dispose of the test strip immediately.

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Comparing Control Solution Results

If the result is outside the range printed on the test strip bottle, repeat the test. One or more of the following may have caused an out-of-range result:

- The meter was not placed in control solution mode before adding control solution
- The control solution has expired or has been contaminated
- The control solution was stored below 35°F (2°C) or above 86°F (30°C)
- First drop of control solution was not discarded
- The test strip was not stored correctly
- The test strip was used after the expiration date of the bottle
- The test strip bottle was open for more than 90 days (3 months)
- The ReliOn® Prime meter has been damaged or has malfunctioned
- Contamination due to the tip of the control solution bottle touching the test strip

Repeat the test, carefully following instructions, using control solution mode with new control solution or a new test strip, as appropriate. Compare the result with the range printed on the test strip bottle you are using.

Note:

If your control solution result continues to fall outside the required range, the system may not be working correctly. DO NOT USE the system to test your blood. If you are unable to resolve the problem, call Customer Service at 800.631.0076 (24 hours a day, 7 days a week).

DOWNLOADING TEST RESULTS TO A COMPUTER

We offer diabetes management software to help you download your test results to a computer. For more information on Diabetes Management Software, call Customer Service at 800.631.0076 (24 hours a day, 7 days a week).

UNDERSTANDING TEST RESULTS

NOTE: The ReliOn® Prime Meter is designed to give results at temperatures between 41°F - 113°F (5°C - 45°C) and relative humidity (non-condensing) of 20–80%.

Comparing Meter and Laboratory Results

Your ReliOn® Prime Blood Glucose Meter is referenced to fresh plasma blood measurement. This was performed in a clinical laboratory with glucose standard calibration to the NIST (National Institute of Science and Technology, Gaithersburg, MD, USA). The results you get from your meter may differ from the tightly controlled clinical laboratory result. This is due to normal variation. To make an accurate comparison between the meter and laboratory results, follow the guidelines below.

Before You Compare

Perform a control solution test to make sure your meter and test strips are working correctly. Wait at least 2 hours after a meal or drink (other than water) before doing comparison blood tests. Fasting is essential if venous blood is required for the reference analyzer.

When at the Laboratory

The capillary samples for both tests must be taken and tested within 15 minutes of each other. The sample must be collected with anticoagulant appropriate to the laboratory analyzer. The recommended technique should be followed. Analysis should be performed following the manufacturer's guidelines.

ALWAYS wash hands in warm, soapy water. Rinse and dry them thoroughly before testing.

ALWAYS use fresh capillary whole blood on meter tests.

You may still experience a difference from the laboratory result because blood glucose levels can change over short periods. This can be for a variety of reasons, such as food, exercise, medication, hematocrit, stress, or loss of body fluids.

Data analysis should be performed using a clinically acceptable method.

Circulating blood glucose fluctuates naturally over time. Test results can vary over time and can be affected by several factors. Some of these include, but are not limited to, the following: (1) time of day the test was performed; (2) food eaten; (3) activities performed; (4) insulin and other medications taken. If your result does not seem correct after testing your blood, repeat the test. If abnormally high or low readings persist, contact your healthcare professional.

Expected Blood Glucose Readings

Expected blood glucose levels for people without diabetes:^{1, 2}

	mg/dL
Fasting	70-110 mg/dL
2 hours after meals	70-140 mg/dL

High Blood Glucose Readings

If your blood glucose is above 600 mg/dL, you will receive a “Hi.” Repeat the test with a new test strip. If this message shows again, contact your healthcare professional immediately!

Contact your physician for advice if test results are very high³ (above 240 mg/dL) and/or you have symptoms of high blood glucose. These symptoms include dry mouth, thirst, frequent urination, nausea, vomiting, blurred vision, sleepiness, or abdominal pain. Symptoms will vary from person to person. You may have one or all of these symptoms.

Low Blood Glucose Readings

If your blood glucose is below 20 mg/dL, you will receive a “Lo.” Repeat the test with a new test strip. If this message shows again, contact your healthcare professional immediately!

Contact your physician for advice if test results are very low⁴ (below 70 mg/dL) and/or you have symptoms of low blood glucose. Symptoms of low blood glucose include sweating, shakiness, trembling, blurred vision, hunger, headache, confusion, rapid heartbeat, or tingling or numbness around the mouth or fingertips. Symptoms will vary from person to person. You may have one or all of these symptoms.

Diabetes Findings

In 1993, the National Institute of Health concluded an extensive long-term study of people with Type 1 diabetes. This study, called the Diabetes Control and Complications Trial (DCCT), found that by keeping your blood glucose close to the levels of people without diabetes you can reduce the risk of complications involving the eyes, kidneys, and nervous system by approximately 60%⁵.

What This Means for You

Frequent blood glucose testing is the best means you have for keeping track of how well you are doing with the factors that affect your diabetes-medication, diet, exercise, and stress management. Blood glucose test results can also tell you whether your diabetes is changing in ways that might require an adjustment to your treatment plan. Always consult your healthcare professional before making any changes in managing your diabetes.

Frequency of Testing

How often you need to test your blood glucose will vary according to your age, the type of diabetes you have, the medications you are taking, and your physical and emotional health. Your healthcare professional will guide you. After deciding when and how often you should test, it is important that you make testing part of your routine.

Recommendations for better diabetes control

- Follow the advice of your healthcare professional.
- Follow the exercise and meal plans recommended by your healthcare professional.
- Take insulin or diabetes medication at your scheduled times.
- Keep in touch with your emotional and physical condition.
- Stress or illness can affect diabetes.
- Watch for symptoms of hypoglycemia (low blood glucose) and hyperglycemia (high blood glucose).
- Always record your test results in a logbook. A logbook assists you in keeping a record of your blood glucose results, along with information on your food intake, exercise, and medication.
- Review your logbook of test results with your healthcare professional regularly.

References

- 1 "Definition and diagnosis of diabetes mellitus and intermediate hyperglycaemia" World Health Organization, 2006
- 2 Diabetes Care, vol. 33 Jan;1 S82-86, 2010
- 3 Krall, L.P. and Beaser R.S.: Joslin Diabetes Manual. Philadelphia: Lea and Fibiger (1989), 261–263.
- 4 Kahn, R. and Weir, G.: Joslin's Diabetes Mellitus. Philadelphia: Lea and Fibiger (1994), 489.
- 5 American Diabetes Association position statement on the Diabetes Control and Complications Trial (1993).

METER MEMORY

Marking Results in the Memory

You can mark results in the meter memory in two ways.

Marking Control Solution Tests

You must mark results with the control bottle symbol . Insert test strip into the meter. Hold the Back or Forward button until  appears in the upper right corner of the screen. Do this BEFORE performing a control solution test. If you do not mark control solution tests before applying control solution to the test strip, the results may not be accurate and control solution test results will be included in your test result averages.

The meter does not use results marked  when it calculates the 14- and 30-day average. This ensures that your 14- and 30-day average includes only results from testing your own blood.

To mark a result , press the Back or Forward button BEFORE testing with control solution. (See page 41 for detailed instructions on testing with control solution).

Marking Other Results

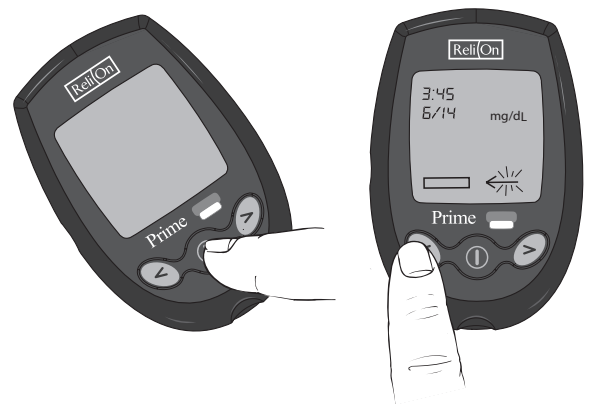
You can also mark results with an **!** when you do **NOT** want to include the result in your 14- and 30-day average. For example, if someone else used your meter, or if you believe the test result is incorrect because you applied blood to the test strip incorrectly, use the exclamation mark to ensure that your 14- and 30-day average includes only those results from testing your own blood that you want included in your average. To mark a result with **!** press the Back or Forward button **AFTER** the meter displays the test result.

Recalling Results

Step 1

Press the On/Off button to turn on the meter. Then press the Back or Forward button. Do not insert a test strip to turn on the meter.

MEM is displayed when the memory mode is entered. The meter displays the most recent test result stored in the memory.



Step 2

Press the Back or Forward button to display the average of tests over the last 14 days. This can include 1 to 250 results, depending on how frequently you test. The number at the top (20n) shows the number of tests that have produced the average.

AVG is displayed when the average is shown.

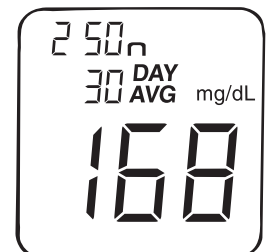


Displaying the average (14 day)

Step 3

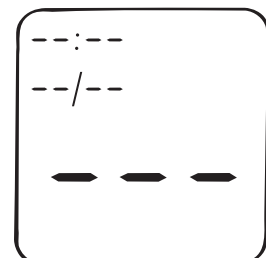
Press the Back or Forward button again to display the 30-day average. The greater the frequency of testing the higher this number will be.

AVG is displayed when the average is shown.



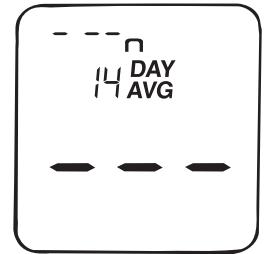
Displaying the average (30 day)

If no results are stored, or you are using the meter for the first time, the meter will display 3 bars.



No results stored

If a test has not been performed in the last 14 days the meter will display the 14-day average screen with 3 bars. This means there are no results stored to produce the average. If a test has not been performed in the last 30 days the meter will display the 30-day average screen with 3 bars.

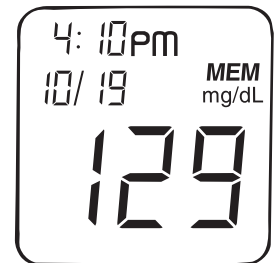


Step 4

Press the Back and Forward buttons to recall other results stored in the memory. Pressing the Forward button after the average displays the oldest test in memory. Pressing the Back button after the average displays the second most recent test in memory.



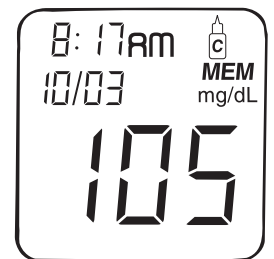
The meter displays the time each test was recorded in the upper left corner. The date of the test appears below the time.



Results marked with **!** when the test was performed are not included in the average. The marked results can be seen when you scroll through the results saved in the memory.

The memory mode also displays  if the result was marked before using control solution. These results are not included in the 14- and 30-day average.

If the thermometer symbol is flashing when you perform a test, the thermometer symbol will be displayed in the memory with the result. These results will not be included in the meter averages.



Step 5

Press the On/Off button to return to the user mode. If you are not going to test, press the On/Off button again to shut off the meter.

NOTE:

Results that appear as LO are included as 20 mg/dL in the glucose averages.

Results that appear HI are included as 600 mg/dL in the glucose averages.

DISPLAY SCREEN MESSAGES

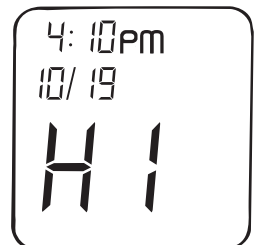
A list of all display screen messages is included below.

If you have any questions after reading these messages, or if the meter displays a message not listed here, call Customer Service at 800.631.0076 (24 hours a day, 7 days a week). If the display screen shows **!**, you should be able to clear the error message yourself. Do not send your meter to your local dealer without authorization from a company representative.

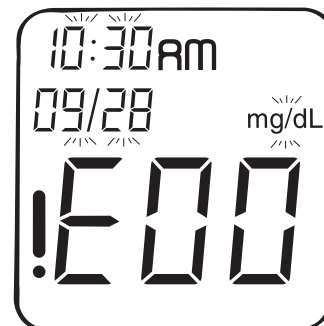
Your blood glucose level is less than 20 mg/dL. Repeat the test using a new test strip. If this message appears again, contact your healthcare professional immediately.



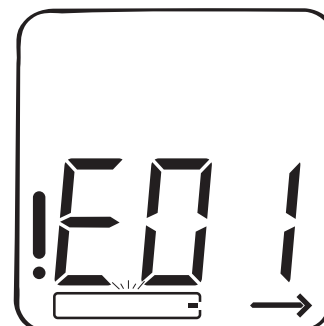
Your blood glucose level is more than 600 mg/dL. Repeat the test using a new test strip. If this message appears again, contact your healthcare professional immediately.



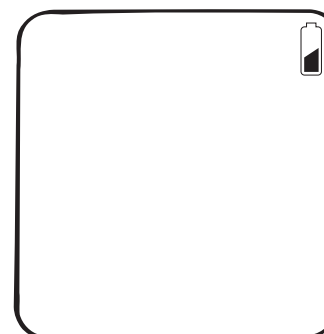
The battery has been replaced.
Check that the time and date are set correctly.



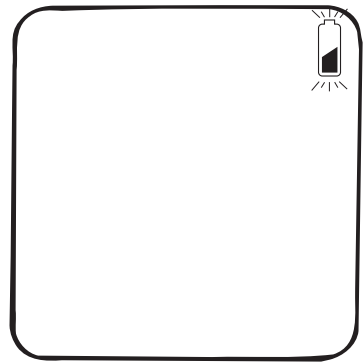
A used strip has been inserted or the meter is having difficulty reading the strip.
Repeat the test with a new test strip.



The battery power is getting low.
There is enough power for approximately 100 tests
before the battery needs to be replaced.



The battery power is low.
There is only enough power for about 20 more tests.
Replace with a new CR2032 battery as soon as possible.

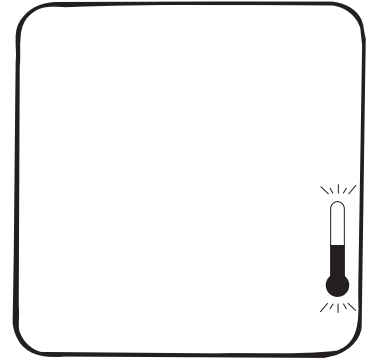


The battery power is too low for testing.
Replace with a new CR2032 battery.



Thermometer flashing.

The meter and test strips are outside the optimum temperature range of 50°F - 104°F (10°C - 40°C). Make sure your meter and strips are in an environment with a temperature between 50°F - 104°F (10°C - 40°C). Treat test result obtained where the thermometer is flashing with caution. The flashing thermometer will be displayed on all screens during glucose testing until the meter has reached acceptable temperature. Readings obtained with the flashing thermometer will show a thermometer when results are recalled in memory.

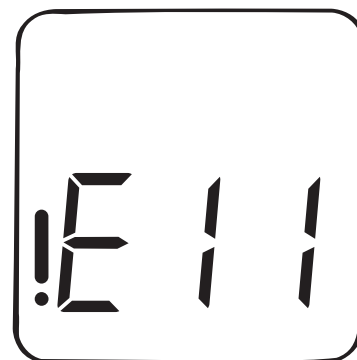


Thermometer symbol - E6.

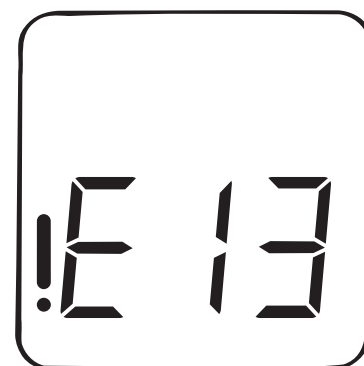
Temperature outside of acceptable range of 41°F - 113°F (5°C - 45°C). You will not obtain a reading. Allow the meter and strips to warm up or cool down slowly to between 50°F - 104°F (10°C - 40°C) or at least to 41°F - 113°F (5°C - 45°C).



Corrupted memory.
Call Customer Service at 800.631.0076.



Not enough blood was added to test strip.
Retest with new test strip. Apply at least 0.5µL of
blood to sample application tip.



CARING FOR YOUR ReliOn® Prime BLOOD GLUCOSE METER

Cleaning the Meter

The ReliOn® Prime Blood Glucose Meter is a precise instrument. Please handle it with care. Clean the outside of the meter with a damp cloth only. Dirt, dust, blood, control solution, or water entering the meter could cause damage. Your ReliOn® Prime Blood Glucose Meter should not need decontamination as no blood or control solution should come into contact with the meter if the instructions are followed correctly.

Storage

The ReliOn® Prime Blood Glucose Meter is designed to be stored within a 32°F - 122°F (0°C - 50°C) temperature range.

- Do not leave your meter in extremely hot or cold places such as near a heat source (radiator) or in a car in very hot or cold weather
- Do not store or use your meter or test strips where they may be exposed to high humidity, such as in a bathroom or kitchen

- Never hold the meter or test strips under running water
- Do not use or store your meter on or near a strong electro-magnetic field such as a microwave oven, stereo amplifiers, or a mobile phone
- Do not store your meter or test strips near bleach or cleaners that contain bleach

SPECIFICATIONS

TEST STRIPS:	ReliOn® Prime
RESULT RANGE:	20 TO 600 MG/DL
CALIBRATION:	PLASMA REFERENCED
SAMPLE SIZE:	MINIMUM 0.5 micro-liter (µL)
BLOOD SOURCE:	CAPILLARY WHOLE BLOOD
HEMATOCRIT RANGE:	33%-52%
TEST TIME:	7 SECONDS
GLUCOSE UNITS:	MG/DL
ASSAY METHOD:	BIOSENSOR, GLUCOSE OXIDASE (<i>ASPERGILLUS NIGER</i> SOURCED)
POWER SOURCE:	SINGLE REPLACEMENT 3V (CR2032) BATTERY
BATTERY LIFE:	MORE THAN 2,000 TESTS AT 4 TESTS PER DAY
DISPLAY TYPE:	LIQUID CRYSTAL DISPLAY (LCD)
MEMORY:	250 RESULTS WITH 14- AND 30-DAY AVERAGING
AUTOMATIC SHUT-OFF:	2 MINUTES AFTER LAST USER ACTION
SIZE:	APPROX. 3.3" X 2.2" X 0.6" (83.5 MM X 55.5 MM X 16 MM)
WEIGHT:	APPROX. 1.48 OZ. (42 G)
OPTIMUM OPERATING RANGES:	50°F - 104°F (10°C - 40°C)
RELATIVE HUMIDITY:	20% - 80%
ALTITUDE:	10,000 FT. (3,048 METERS)

WARNINGS, PRECAUTIONS, AND LIMITATIONS

- The ReliOn® Prime Blood Glucose Monitoring System is not designed to substitute for pathology laboratory equipment and should not be used for the diagnosis of diabetes.
- Severe dehydration (excessive water loss) may cause false low results. If you believe you are suffering from dehydration, consult your healthcare professional immediately.
- A red blood cell count (hematocrit) that is very high (above 52%) can give abnormally low results. A very low hematocrit level (below 33%) can give abnormally high results.
- Inaccurate results may occur in severely hypotensive individuals or patients in shock.
- Inaccurate low results may occur for individuals experiencing a hyperglycemic-hyperosmolar state, with or without ketosis.
- Patients undergoing oxygen therapy may yield false results.
- Do not use to test newborns. The system has not been validated for neonatal use.

- Do not use the ReliOn® Prime system at altitudes in excess of 10,000 ft (3,048 m).
- Triglycerides up to 3,300 mg/dL do not significantly affect test results. However, glucose values in specimens beyond this triglycerides level should be interpreted with caution.
- Metabolites of icodextrin (maltose, maltotriose, and maltotetraose) do not affect test results.
- Use only fresh capillary blood. Do not use serum or plasma or venous whole blood.

IMPORTANT: Low or high blood glucose readings can indicate a potentially serious medical condition. If your blood glucose reading is unusually low or high, or you do not feel the way your readings indicate, repeat the test using a new strip. If your result is still not consistent with your symptoms or if your blood glucose result is less than 60 mg/dL or higher than 240 mg/dL, contact your diabetes healthcare professional for advice.

WARRANTY

You are a valued ReliOn® customer of. It is important to us that you are completely satisfied with your Blood Glucose Meter.

ReliOn® warrants that your Meter will be free from defects in materials and workmanship for a period of five years from the date of the original purchase. If during this time the meter does not work properly because of a defect in materials or workmanship, ReliOn® agrees to replace or repair, free of charge any and all parts proven to be defective and subject to warranty.

This warranty is in lieu of all other warranties, expressed or implied, including any implied warranty of merchantability or fitness for any purpose, other than stated herein.

This warranty does not apply to the performance of the ReliOn® Prime meter that has been damaged by accident or has been altered, misused, tampered with, or abused in any way. This warranty only applies to the original purchaser of the meter and/or its agents.

RETURNS

You must contact Customer Service at 800.631.0076 before returning your meter. You will be instructed how to return the meter to ARKRAY. Returned meters without this authorization will not be accepted.

Distributor

ARKRAY USA, Inc.

Minneapolis, MN 55439 USA

TEL 800.631.0076