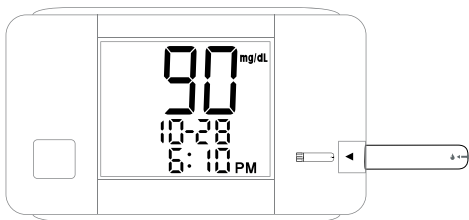


GlucoPoint

BLOOD GLUCOSE MONITORING SYSTEM



OWNER'S MANUAL

Ver 1.0
2008 04

Dear GlucoPoint System Owner:

This manual contains important information that you must know about your system. Please read it carefully and keep it for future reference.

For other questions regarding this system, please contact your local customer service. At all other times, you should contact your health care professional for assistance.

IMPORTANT SAFETY INSTRUCTIONS

READ THIS BEFORE USING

The following basic safety precautions should always be taken.

1. Close supervision is necessary when the device is used by, on, or near children, handicapped persons or invalids.
2. Use the device only for the intended use described in this manual.
3. Do not use accessories which are not supplied by the manufacturer.
4. Do not let the equipment or its flexible cord come into contact with surfaces which are too hot to touch.
5. Do not use the equipment where aerosol sprays are being used, or where oxygen is being administered.
6. Do not use device if it is not working properly, or if it has suffered any damage.
7. Before using product to test your blood glucose, read all instructions thoroughly and practice the test. Do all quality control checks as directed and consult with a diabetes healthcare professional.

KEEP THESE INSTRUCTIONS

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IMPORTANT INFORMATION

- ▶ Severe dehydration and excessive water loss may cause false low results. If you believe you are suffering from severe dehydration, consult a healthcare professional immediately.
- ▶ If you get your blood glucose results lower or higher than usual, and do not have symptoms, first repeat the test. If you have symptoms or continue to get results higher or lower than usual, follow the treatment advice of your healthcare professional.
- ▶ Apply only capillary whole blood sample to the absorbent hole. Applying other substances to the absorbent hole will cause inaccurate results.
- ▶ If you are experiencing symptoms that are not consistent with your blood glucose test results and you have followed all instructions described in this owner's manual, call your healthcare professional.
- ▶ 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. Critically ill patients should not be tested with blood glucose meters.
- ▶ Please refer to your test strip package insert for additional important information.

ABOUT ALTERNATIVE SITE TESTING (AST)

Important: There are limitations for doing AST.

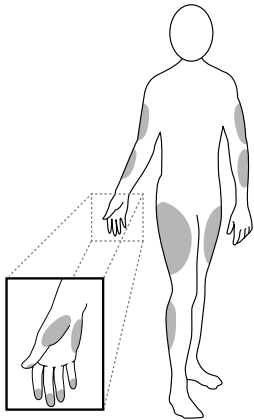
Please consult your healthcare professional before you do AST.

What is AST?

Alternative site testing (AST) means that people use parts of the body other than fingertips to check their blood glucose levels. This system provides you to test on the palm, the forearm, the upper arm, the calf, or the thigh with the equivalent results to fingertip testing.

What's the advantage?

Fingertips feel pain more readily because they are full of nerve endings (receptors). At other body sites, since nerve endings were not so condensed, you will not feel as much pain as at the fingertip.



When to use AST?

Food, medication, illness, stress and exercise can affect blood glucose levels. Capillary blood at fingertip reflects these changes faster than capillary blood at other sites. Therefore when testing blood glucose during or immediately after meal, physical exercise, or any other event, **take blood sample from your finger only.**

We strongly recommend you do AST **ONLY** in the following intervals:

- In a pre-meal or fasting state (more than 2 hours since the last meal).
- Two hours or more after taking insulin.
- Two hours or more after exercise.

Do **NOT** use AST if:

- You think your blood glucose is low.
- You are unawareness of hypoglycemia.
- Your AST results do not match the way you feel.
- You are testing for hyperglycemia.
- Your routine glucose results are often fluctuating.
- You are pregnant.

How to increase the accuracy?

Stimulating blood perfusion by rubbing the puncture site prior to blood extraction has a significant influence on the glucose value obtained. Blood from the site without rubbing exhibits a measurably different glucose concentration than blood from the finger. When the puncture site was rubbed prior to blood extraction, the difference was significantly reduced.

Please follow suggestions below before getting a drop of blood:

- Rub the puncture site about 20 seconds before penetration.
- Use a clear cap (included in the kit) instead while setting the lancing device.

INTRODUCTION OF THE SYSTEM

● Intended Use

The system is intended for use outside the body (in vitro diagnostic use). It should be used only for testing glucose (sugar) and only with fresh capillary whole blood samples taken from the finger and the alternative sites including the palm, the forearm, the upper arm, the calf and the thigh. The system is intended for use in the home and in clinical settings. It should not be used for the diagnosis of diabetes or for the testing of newborns.

AST in this system can be used only during steady-state blood glucose conditions described in the section of "About AST".

● Principle of Measurement

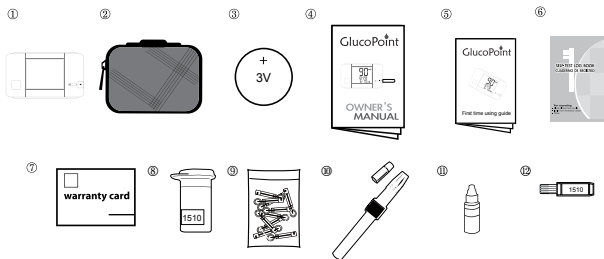
The test is based on the measurement of electrical current generated by the reaction of glucose with the reagent of the strip. The meter measures the current and displays the corresponding blood glucose level. The strength of the current produced by the reaction depends on the amount of glucose in the blood sample.

● Contents of the System

The system consists of three main products: the blood glucose meter, test strips, and two levels of control solution. These products have been designed, tested, and proven to work together as a system to produce accurate blood glucose test results. Use only the same brand-name of test strips and Glucopoint control solution with the blood glucose meter.

Your system includes:

- ① A meter
- ② Carrying Case
- ③ Extra 3V Lithium Battery
- ④ Owner's Manual
- ⑤ First time using guide
- ⑥ Daily Logbook
- ⑦ Warranty card
- ⑧ Strip
- ⑨ Lancet
- ⑩ Lancing device + clear cap
- ⑪ Control Solution (Normal)
- ⑫ Code card



PLEASE NOTE

- Check your system to be sure that it is unopened prior to use and that it contains all parts listed above. If either of these conditions occurred, please return your system to the place of purchase.

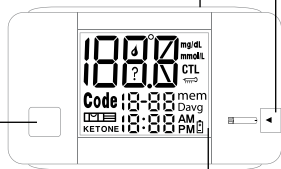
● Appearance and Key Function of the Meter

SETTING BUTTON (in the back)

Setting the date, time and unit, located in the battery compartment.

TEST PORT

The test port is where you insert the test strip for testing. The meter will turn on automatically when you insert a test strip.



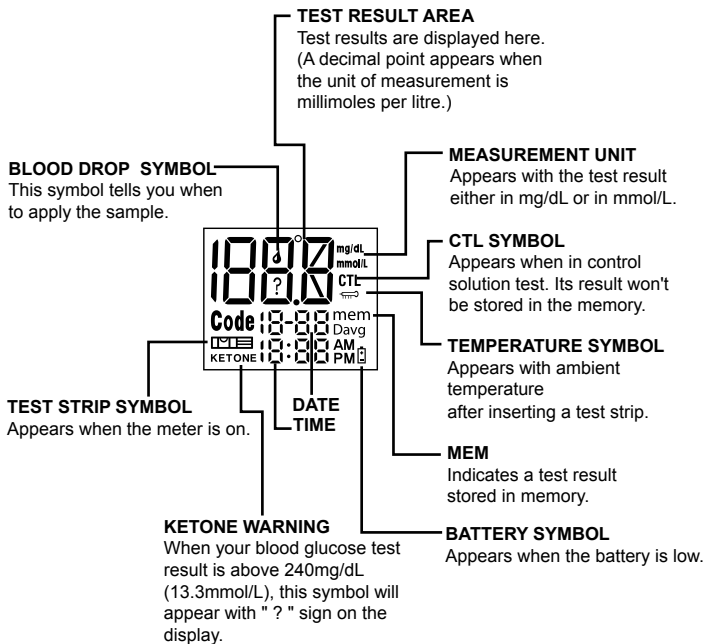
MAIN BUTTON

The main button in front of the meter is used to set up the meter, enter the memory mode, change the value of data time, unit setting, memory deleting and turn the meter on and off.

DISPLAY

Your test results are displayed here. The large, easy-to-read display guides you through the test using symbols and simple messages.

● Meter Display Segments



● Appearance of the Test Strip

Your system measures the amount of sugar (glucose) in whole blood. Blood is applied to the absorbent hole of the test strip and is automatically drawn into the reaction cell where the reaction takes place.

The test strip consists of the following parts:

Contact Bars

Insert this end of the test strip into the meter.

Push it in firmly until it will go no further.

Test Strip Handle

Hold this part to insert the test strip into the slot.

Confirmation Window

This is where you confirm if enough blood has been applied to the absorbent hole of the strip.

Absorbent Hole

Apply a drop of blood here, The blood will be sucked automatically.




See pages 27~35, Testing Your Blood, for complete instructions.

PREPARATION BEFORE USE


● Battery Replacement

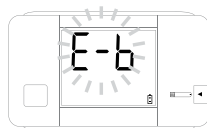
Your meter comes with one 3.0 V (CR2032) lithium battery that is already installed.

The meter will alert you when the power is getting low by displaying two different messages:

1. The  symbol appears with “CHK” and test strip symbol: the meter is functional and the result remains accurate, but it is time to change the battery.



2. The  symbol appears with the flashing E-b symbol: the battery can not provide enough power to do a test. You must change the battery immediately.



PLEASE NOTE

- Replacing the battery does not affect the meter's memory (previous test results stored in memory). However, the time and date settings may need to be updated.
- Batteries might leak chemicals if not used for a long time. Remove the battery if you are not going to use the device for an extended period (i.e. 3 months or more).

To replace the battery, make sure that the meter is turned off.

1. Press the buckle on battery cover and lift up to remove cover.
2. Remove the old battery and replace with one new 3.0 V (CR2032) lithium battery. Make sure that the positive “+” side is facing up.
3. Close the battery cover. If the battery is inserted correctly, you will hear a “beep”.



WARNING

As with all small batteries, the batteries should be kept away from small children who still put things in their mouths. If they are swallowed, promptly see a doctor for help.

● Setting the Meter and Deleting the Memory

Your meter comes with the time, date, unit of measurement and unit of temperature preset. But if you replace the battery, you may need to reset the meter.

Start with the meter off. Then press the set button located in the battery compartment. The meter is now in the setting mode. You can start to set up the meter.



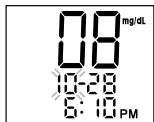
STEP 1 Set the Year

The year will appear first, with the year setting flashing. Press and release the Main button to advance one year. To move faster, keep pressing the Main button until the desired number appears. With the correct year on the display, press the Set button and then the month segment flashes.



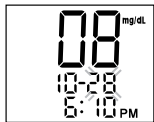
STEP 2 Set the Month

Press and release the Main button until the correct month appears. To move faster, hold the Main button down. With the correct month on the display, press the Set button and then the day segment flashes.



STEP 3 Set the Day

Press and release the Main button until the correct day appears. To move faster, hold the Main button down. With the correct day on the display, press the Set button and then the hour segment flashes.



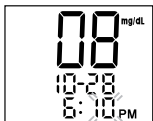
STEP 4 Set the Hour

Press and release the Main button to advance one hour. To move faster, hold the Main button down. With the correct hour on the display, press the Set button and then the minute segment flashes.



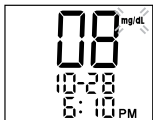
STEP 5 Set the Minutes

Press and release the Main button to advance one minute. To move faster, hold the Main button down. With the correct minute on the display, press the Set button and then the current unit of measurement starts flashing.



STEP 6 Select mg/dL or mmol/L

Press and release the Main button to select the unit of measurement you want to use. Press the Set button and then the current unit of temperature flashes.

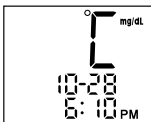


The milligram per deciliter (mg/dL) is the standard unit in the United States. The mmol/L is the standard unit in Canada. Use of the wrong unit of measure may cause you to misinterpret your blood glucose level, and may lead to incorrect treatment.

STEP 7 Select °C or °F

Press and release the Main button to select the unit of temperature you want to use.

Press the Set button and the meter will display “dEL” with flashing “mem” symbol.

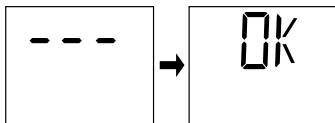


STEP 8 Delete Memory and Exit the Setting Mode

With “dEL” and flashing “mem” symbol on the display:



Press the Main button again to delete all of the memory, following the meter will display “---” and “OK” to show that the memory is deleted. Then press the Set button to turn off the meter.



If you do not want to delete the memory, press the Set button to skip this step and then the meter will be turned off.




Congratulations! You have finished all settings now!

PLEASE NOTE

- The time, date, unit of measurement and unit of temperature can ONLY be changed in the setting mode. Therefore, when you perform a glucose testing, those parameters are not possible to be changed.
- Your meter displays 7-, 14-, 21-, 28-, 60- and 90-day averages which you can access from the meter memory. These averages are calculated from results obtained during the 7-, 14-, 21-, 28-, 60- and 90-day preceding the current date and time settings. When the date and time are changed, the 7-, 14-, 21-, 28-, 60- and 90-day averages may change.
- While the meter is in the Setting mode, it will turn off automatically without any action in one minute.

BEFORE TESTING

● Checking the Display

Each time you insert a test strip into the meter to turn the meter on, the meter will display "CHK" and . This tells you that the system is performing several self-checks.




CAUTION

If the code number displayed on the meter does not match the number printed on the vial, test results may be inaccurate.

● Coding the Meter

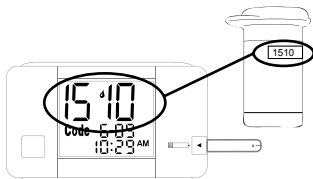
STEP 1 Enter the Code Mode.

Start with the meter turned off. Insert a test strip to turn on the meter. "CHK" and  will appear. Next, the ambient temperature and then the code number will appear.



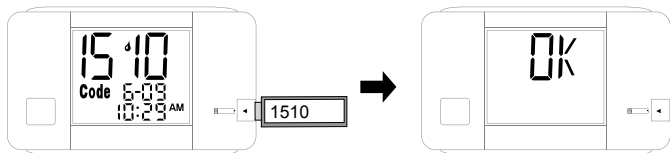
STEP 2 Match the Code Numbers.

Compare the code number on the meter display with the code number on the test strip vial. If the two code numbers match, you may begin testing. If not, follow Step 3.



STEP 3 Code the Meter

With the meter off, insert the code strip and the code number will appear on the display. Then remove the code strip and “OK” will appear. This tells you that coding is complete. You can start testing now.



● **Checking the System with GlucoPoint Control Solutions**

GlucoPoint control solutions contain a known amount of glucose that reacts with test strips. By comparing your control solution test results with the expected range printed on the test strip vial label, it is able to check that the meter and the test strips are working together as a system and that you are performing the test correctly. It is very important that you do this simple check routinely to make sure you get accurate results.

How often the control solution test should be performed?

- ▶ When you use this system to test your blood for the first time, practice the procedure using control solution. When you can do three tests in a row that are within the expected range, you are ready to test your blood.
- ▶ For routinely check the meter and test strips, perform a single test for each level of control solution at least once a week.

When the control solution test should be performed?

- ▶ Whenever you suspect that the meter or test strips are not working properly.
- ▶ When your blood glucose test results are not consistent with how you feel, or when you think your results are not accurate.
- ▶ When your test strips are exposed to extreme environmental conditions (See Storage section of this manual).
- ▶ When you want to practice running the test.
- ▶ If you drop the meter.

● Important Control Solution Information


- ▶ Use only GlucoPoint control solutions.
- ▶ Check the expiration date on the control solution vial. Do not use if expired.
- ▶ Control solution, meter, and test strips should come to room temperature (20~25°C/68~77°F) before testing.
- ▶ Shake the vial, discard the first drop of control solution, and wipe off the dispenser tip to ensure a good sample and an accurate result.
- ▶ Use only for 90 days after first opening. Record the discard date (date opened plus 90 days) on the control solution vial. Discard after 90 days.
- ▶ Store the control solution tightly closed at temperatures below 2-30°C (36-86°F). Do not freeze.

PLEASE NOTE

The control solution range printed on the test strip vial is for GlucoPoint control solution only. It is used to test meter and test strip performance. It is not recommended range for your blood glucose level.

● Doing a Control Solution Test

STEP 1 Insert the Test Strip


Insert a test strip with contact bars end first and facing up, into the test slot. The meter turns on automatically and displays “CHK” and “”.

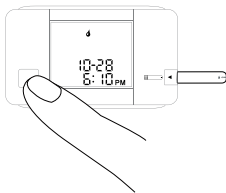


Next, the ambient temperature and then the code number will appear.

Be sure the code number on the display is the same as the code number on the test strip vial. If the code numbers do not match, please see “Coding the Meter” section of this manual.

STEP 2 Press the Main Button

While the “” symbol appears on the display, press the Main button and then “CTL” will appear on the display. With the “CTL” sign on the display, the meter will not store your test result in memory. If you decide not to perform a control solution test, press the Main button again, and the “CTL” sign will disappear.

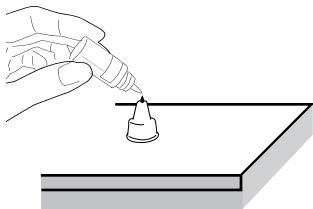


WARNING

- Contact bars must be inserted all the way into the meter or you may get an inaccurate test result.
- Every time you perform a control solution test, you must enter into the “CTL” test mode so that the test result will not be stored in the meter memory. Failure to do so will confuse the blood glucose test result with the control solution test result in memory.

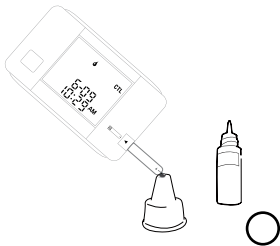
STEP 3 Obtain Control Solution

Shake the control solution vial well. Remove the cap. Squeeze the vial, discard the first drop, and wipe off the dispenser tip to prevent contamination. Squeeze the vial again to get another drop and place the drop on the top of the cap.

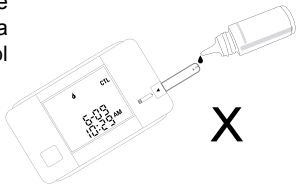


STEP 4 Apply Control Solution

Hold the meter to meet the absorbent hole of the test strip and the drop will be automatically drawn into the test strip. Make sure the confirmation window is completely filled. The meter begins to count down.

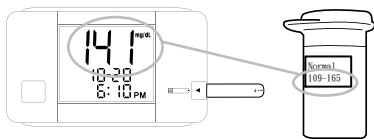


To avoid contaminating the control solution with the content of the test strip, you have to place a drop of control solution on a clean surface. Do not directly apply control solution into a strip.



STEP 5 Read and Compare the Result

After counting to 0, the test result of control solution is shown on the screen. Compare this result with the range printed on the test strip vial. It should fall within this range.



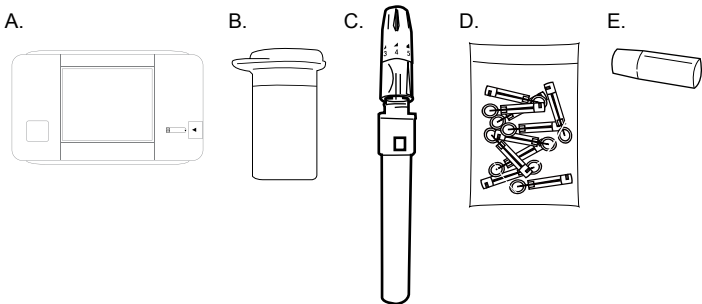
Out-of-range results

If test results fall outside the range printed on the test strip vial, check the section of "Problem in Operation" in troubleshooting guide and repeat the test. If you continue to get out-of-range results, it means that the system may not be working properly. Do NOT test your blood. Please call your local agent for help.

TESTING YOUR BLOOD

Be sure to read this section and the test strip package insert found in the test strip box carefully before testing. Make sure you have all items needed to test:

- A. Blood Glucose Meter
- B. Test Strip
- C. Lancing Device
- D. Sterile Lancet
- E. Clear Cap (For AST use)



WARNING

To reduce the chance of infection:

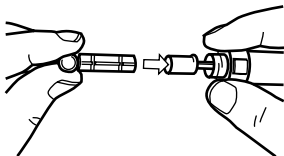
- Never share a lancet or the lancing device with others.
- Always use a new, sterile lancet. Lancets are for single use only.
- Avoid getting hand lotion, oils, dirt, or debris in or on the lancets and the lancing device.

● Testing Procedure

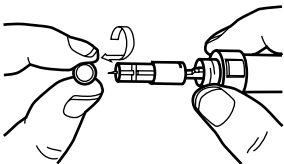
WASH AND DRY YOUR HANDS FIRST BEFORE STARTING.

STEP 1 Set the Lancing Device

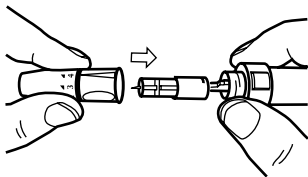
Screw off the cap of lancing device. Insert a lancet into the lancet holder and push down firmly until it is fully seated.



Twist the protective disk until it separates from the lancet.



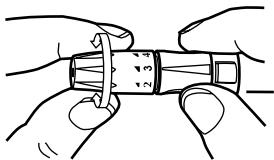
Replace the lancet device cap. Turn the cap until it is snug but not too tight.



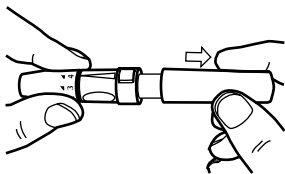
Twist the adjustable tip in either direction until the number lines up with the Arrow:

The adjustable tip offers 5 levels of skin penetration.

1-2 for soft or thin skin, 3 for average skin, 4-5 for thick or calloused skin.

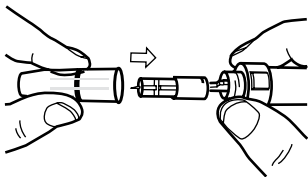


Slide the ejection/cocking control back until it clicks. If it does not click the device may have been cocked when the lancet was inserted.



Blood from sites other than the fingertip



A clear cap, together with the kit, makes it easier to get a drop of blood for AST. When you want to obtain blood from sites other than the finger, **replace the lancet device cap with the clear cap.** Turn the clear cap until it is snug but not too tight, and then Slide the ejection/cocking control back until it clicks.



The lancing device is now ready for use. Set aside for later use.

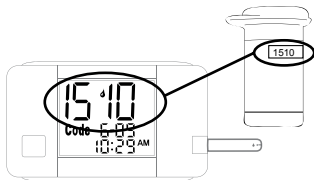
STEP 2 Insert Test Strip

Insert a test strip with contact bars end first and facing up into the test slot.

The meter will turn on automatically. "CHK" and  will appear briefly on this display. Next, the ambient temperature and then the  symbol with the code number will appear.



Make sure the code number showed on the screen is the same as the code number printed in the test strip vial. If the code numbers are different, please refer to section of "Coding the Meter", for the procedure of coding.

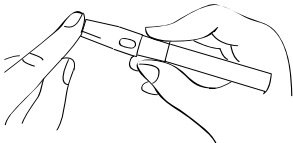


STEP 3 Get a drop of blood

Select the puncture site either in finger or in other parts (AST). Clean the puncture site with 70% alcohol cotton and let it air-dry.

■ Fingertip

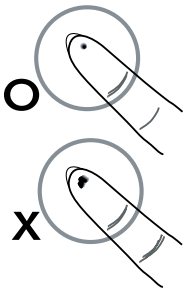
Hold the lancing device firmly against the side of your finger. Press the release button. You will hear a click, indicating that the puncture is complete.



■ Sites other than fingertip

Please refer to the section of “About AST” for available punctured sites.

After penetration, discard the first drop of blood with a clean tissue paper or cotton. Then gently squeeze the punctured area to obtain blood. But be attention NOT to smear the blood sample.




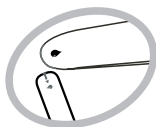
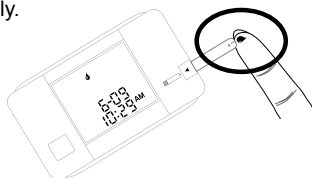
The volume of blood sample must be at least 0.7 microliter (• actual size).

PLEASE NOTE

- Choose a different spot each time you test. Repeated punctures in the same spot may cause soreness and calluses.
- Before you decide to do AST, please consult your health professional firstly.
- Since the first drop of blood usually contains tissue fluid and serum, which may affect the test result, it is recommended to be discarded.

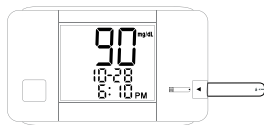
STEP 4 Apply blood into the test strip

When “” is flashing on the screen, apply your blood to the absorbent hole of the test strip until the confirmation window is **fully covered** with blood. The meter then begins to count down automatically.



STEP 5 Obtain an Accurate Result in 7 Seconds

The result of your blood glucose test is shown after the meter counts to 0. This reading is automatically stored in the meter.



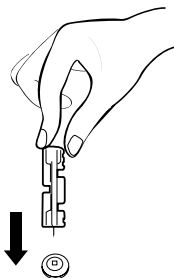
PLEASE NOTE

- Do not push your finger (with blood on it) against the test strip or try to apply a smeared sample on the test strip.
- If you do not apply a blood sample to the test strip within 3 minutes, the meter will automatically turn off. You must remove and reinsert the test strip to restart the test procedure.
- The blood should be completely filled the confirmation window before the meter begins to count down. If you find that the confirmation window is not filled with blood when the meter is counting, **NEVER** try to add more blood to the test strip. **Discard the test strip and retest with a new one.**
- If you have trouble filling the test strip, please contact the customer service for help.

STEP 6 Remove the Lancet

Always use caution when removing the lancet.

Take the lancet out carefully. Place the disk on a hard surface and push the exposed tip into the protective disk.



WARNING



The used lancet and the used test strip may be potentially biohazard. Please discard it carefully according to your healthcare provider's instructions.

● Expected Test Results

Blood glucose monitoring plays an important role in diabetes control. A long-term study showed that **keeping blood glucose levels close to normal** can reduce the risk of diabetes complications by up to 60%*¹. The results you get with the GlucoPoint blood glucose system can help you and your healthcare professional monitor and adjust your treatment plan to gain better control of your diabetes.

Time of day	Plasma glucose range (mg/dL) for people without diabetes	Your target range (mg/dL)/(mmol/L)
Fasting and before meal* ²	70-110mg/dL (3.9-6.1 mmol/L)	
2 hours after meals* ³	Less than 140 (7.8 mmol/L)	

*1: American Diabetes Association position statement on the Diabetes Control and Complications Trial (1993).

*2: Sacks, DB in " Carbohydrates ", Burt, CA, Ashwood, ER(ed), Tietz Textbook of Clinical Chemistry, Philadelphia, WB Saunders Company, 1999.

*3: ADA Clinical Practice Recommendations 2003.

Please work with your doctor to determine a target range that works best for you.

● Special Messages

The GlucoPoint meter displays results between 20 to 600 mg/dL (1.1 to 33.3 mmol/L).

If your test result is lower than 20 mg/dL (1.1 mmol/L), “Lo” will appear on the meter display. This indicates severe hypoglycemia (low blood glucose). You should immediately treat hypoglycemia as recommended by your healthcare professional.



If your blood glucose test result is above 600 mg/dL (33.3 mmol/L), “Hi” will appear on the meter display. This indicates severe hyperglycemia (high blood glucose). You should seek immediate medical assistance.



If your blood glucose test result is above 240 mg/dL (13.3 mmol/L), “KETONE” and “?” will appear on the meter display. This indicates high blood glucose*4 and you should seek immediate medical assistance.



*4: Krall, L.P., and Beaser, R.S.: Joslin Diabetes Manual. Philadelphia: Lea and Febiger (1989), 261-263.

COMPARING METER AND LABORATORY RESULTS

The meter provides you with whole blood equivalent results.

The result you obtain from your meter may differ somewhat from your laboratory result due to normal variation. Meter results can be affected by factors and conditions that do not affect laboratory results in the same way. (See test strip package insert for typical accuracy and precision data, and for important information on Limitations.) To make an accurate comparison between meter and laboratory results, follow the guide-lines below.

Before you go to the lab:

- ▶ Perform a control solution test to make sure that the meter is working properly.
- ▶ It is best to fast for at least eight hours before doing comparison tests.
- ▶ Take your meter with you to the lab.

While at the lab:

Make sure that the samples for both tests (the meter test and the lab test are taken and tested within 15 minutes of each other).

- ▶ Wash your hands before obtaining a blood sample.
- ▶ Never use your meter with blood that has been collected in a gray-top test tube.
- ▶ Use fresh capillary blood only.

You may still have a variation from the result because blood glucose levels can change significantly over short periods, especially if you have recently eaten, exercised, taken medication, or experienced stress^{*5}. In addition, if you have eaten recently, the blood glucose level from a finger stick can be up to 70 mg/dL (3.9 mmol/L) higher than blood drawn from a vein (venous sample) used for a lab test^{*6}. Therefore, it is best to fast for eight hours before doing comparison tests. Factors such as the amount of red blood cells in the blood (a high or low hematocrit) or the loss of body fluid (severe dehydration) may also cause a meter result to be different from a laboratory result.

References

- *5: Surwit, R.S., and Feinglos, M.N.: Diabetes Forecast (1988), April, 49-51.
- *6: Sacks, D.B.: "Carbohydrates." Burtis, C.A., and Ashwood, E.R.(ed.), Tietz Text book of Clinical Chemistry. Philadelphia: W.B. Saunders Company (1994), 959.

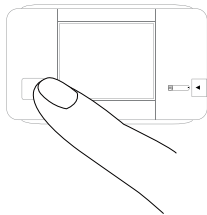
USING THE METER MEMORY

● View Results on the Meter

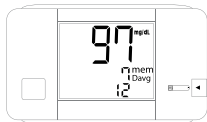
Your meter stores the 450 most recent blood glucose test results with date and time in its memory. It also provides you with 7-, 14-, 21-, 28-, 60-, and 90-day averages of your blood glucose test results. You can review the test results in memory with these easy steps.

STEP 1 Enter the Memory Mode

With the meter turned off, press the Main button twice. The 7-day average will appear, indicating that you are in the memory mode. If you continue to press the Main button, the 14-, 21-, 28-, 60-, and 90-day average will appear. You can then review the last 450 tests in the memory.

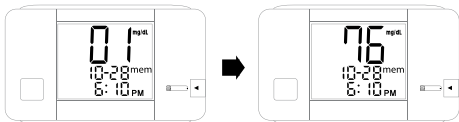


The 7-day average is calculated from the blood glucose results obtained during the last 7 days. The example displayed means that the blood glucose average of the 12 tests which were performed over the last 7 days was 97 mg/dL.



STEP 2 Recall Test Results

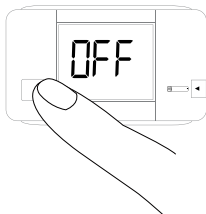
After 90-day average, the most recent test result with date and time appears. Press the Main button to review your last 450 test results in order. When the memory is full, the oldest result is dropped as the latest is added.



After viewing the oldest test result, push down the Main button again to resume to the 7-day average. If you would like to exit the memory mode, please go to the next step.

STEP 3 Exit the Memory Mode

Keep pressing the Main button for 5 seconds to turn off the meter.



PLEASE NOTE

- The control solution results are **NOT** stored in the memory (please also go to page 25 **WARNING** for information). The list of past results and the result average are for blood glucose results only.
- When using the meter for the first time, “---” will appear, showing that there are no test results in memory.
- If no button is pressed for 2 minutes, the meter will show “OFF” and turn off automatically.

● Viewing Results on a Personal Computer

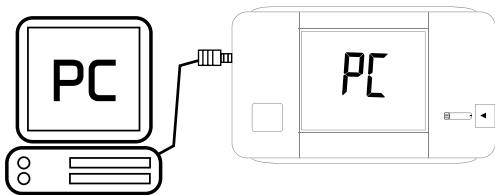
Results in memory can be transmitted to the personal computer. Health Care Software System and an Interface Cable are required before installation. An Interface Cable is required for data transmission, but is not included in the standard kit. To learn more about Health Care Software System or to obtain an Interface Cable instruction manual separately, please contact your agent or place of purchase for help.

Step 1 Install Software

Follow instruction manual provided by your agent to install health Care system software in your computer.

Step 2 Connect to Personal Computer

Connect the interface cable to the serial port of your computer. With the meter turned off, connect the Interface Cable to the Data Port of the meter. "PC" will appear on the display, indicating that the meter is ready to transmit data.



Step 3 Transmit Data

Follow the instruction manual to transmit data from the meter's memory to your computer. Results transmitted will include date and time. Remove the cable and the meter will automatically turn off.

PLEASE NOTE

- While the meter is connected to the PC, it is unable to perform a blood glucose test.

CARING FOR YOUR METER AND STRIP

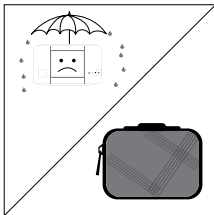
To avoid the meter and test strips getting dirt, dust or other contaminants, please wash and dry your hands thoroughly before use.

● Cleaning

Your meter does not require special maintenance. As no blood or control solution comes in contact with the meter, there is no special cleaning required.

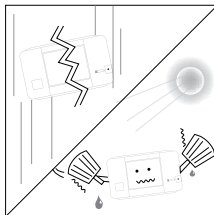
1. To clean the meter exterior, wipe with a cloth moistened with tap water or a mild cleaning agent, then dry the device with a soft and dry cloth. Do not flush with water.
2. Do not use organic solvents to clean the meter.

● Storage



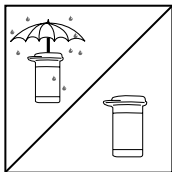
1. Meter Storage

- Storage condition: $-20^{\circ}\text{C}\sim 60^{\circ}\text{C}$ ($68^{\circ}\text{F}\sim 140^{\circ}\text{F}$), below 95% relative humidity.
- Always store or transport the meter in its original storage case.

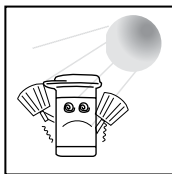


- Avoid dropping and strong impact.
- Avoid direct sunlight and humidity.

2.Strip Storage



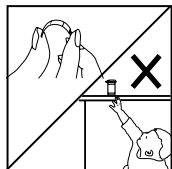
- Storage condition: 4°C~ 40°C (39.2°F~104°F), below 85% relative humidity.
- Store your test strips in their original vial only. Do not transfer to other container.



- Store test strip packages in a cool and dry place. Keep away from direct sunlight and heat.
- After removing a test strip from the vial, immediately replace the vial cap and close it tightly.
- Touch the test strip with clean and dry hands.

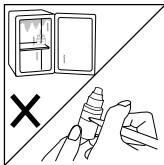


- Use each test strip immediately after removing it from the vial.
- Write the discard date (the date opened plus 90 days) on the vial label when you first open it. Discard remaining test strips 90 days after first opening date.



- Do not bend, cut, or alter a test strip in any way.
- Keep the strip vial away from children since the cap and the test strip may be a choking hazard. If swallowed, promptly see a doctor for help.

3. Control solution storage











- Storage condition: Store the control solution tightly closed at temperatures 2-30°C (36-86°F). Do NOT freeze.
- Record the discard date (date opened plus 90 days) on the control solution vial. Discard after 90 days.

PROBLEM-SOLVING GUIDE

Following is a summary of some display messages and symbols. These messages help to identify certain problems but do not appear in all cases when a problem has occurred. Improper use may cause an inaccurate result without producing an error message or a symbol. In the event of a problem, refer to the information under action.

Never try to disassemble the meter in any circumstances. If you encounter any error messages not listed below or if you have followed the actions recommended below but the problem keeps unsolved, please call the local agent for support.

● Error Message

Message	Meaning	Action
	The  symbol appears with this message on the display by itself. This means that the battery will not provide enough power for a test.	Replace the battery at once.
	Error message could be caused by a used test strip, or a temporary or permanent electronics problem occurred.	Repeat the test with a new test strip. If the error message appears again, please call your local agent for help.
	The temperature of the environment, meter, or test strip was below or above the system operation range. You can not perform a test until the meter and test strip reach a temperature within the operation range of 10~40°C (50~104°F).	Repeat the test after the meter and test strip have reached a temperature within the operation range.
	Error message indicates that there may be a problem with the meter or code strip.	Repeat the test with a new code strip. If the problem persists, please call the Customer Care Line for help.
	Error message indicates that there is a problem with the meter.	Review the instructions and try again with a new test strip. If the problem persists, please call your local agent for help.
		
	Error message indicates that you may remove the strip after applying blood to the absorbent hole.	Review the instructions and try again with a new test strip.

● Problem in Operation

1. If the meter does not display a message after inserting a test strip:

PROBABLE CAUSE	WHAT TO DO
a. Battery exhausted.	Replace the Battery.
b. Battery incorrectly installed or absent.	Check that the battery is correctly installed with the positive “+” side up.
c. Test strip inserted upside down or incompletely.	Insert the test strip correctly with the contact bars end first and facing up.
d. Defective meter.	Please call your local customer service for help.

2. If the test does not start after applying the sample:

PROBABLE CAUSE	WHAT TO DO
a. Insufficient blood sample.	Repeat the test with a new test strip and a larger sample.
b. Defective test strip.	Repeat the test with a new test strip.
c. Sample applied after automatic shutoff (three minutes after last user action).	Repeat the test with a new test strip; apply sample only when “⏸” appears on the display.
d. Defective meter.	Please call your local customer service for help.

3. If the control solution test result is out of range.

POSSIBLE CAUSE	WHAT TO DO
Error in performing the test.	Read the instruction thoroughly and repeat the test again.
Improper code number.	Check if the code number on the display matches the code number on the test strip vial.
Do not shake the control solution vial very well.	Shake the control solution vigorously and repeat the test again.
Expired or contaminated control solution.	Check the expiry date or the discarded date of the control solution.
Control solution that is too warm or too cold.	Control solution, meter, and test strips should come to room temperature (20~25°C/68~77°F) before testing.
Test strip deterioration.	Repeat the test with a new test strip.
Meter malfunction.	Contact local customer service.

SPECIFICATIONS

Dimension: 78mm*48mm*15mm

Weight: 40.17g

Power source: onè CR2032 3V lithium coin battery

Display: LCD

Memory: 450 measurement results with date and time

External output: RS232 PC interface

Auto electrode inserting detection

Auto sample loading detection

Auto reaction time count-down

Auto turn-off after 3 minutes without action

Temperature warning

Operating condition: 10°C~40°C(50°F~104°F), below 85%R.H. (noncondensing)

Storage/Transportation condition : -20°C~ 60°C(68°F~140°F) below 95% R.H.

Measurement Units: Either mg/dL or mmol/L

Measurement Range: 20~600 mg/dL (1.1~33.3 mmol/L)

The specifications may be changed without prior notice.

The device has been certified to meet the electrical and safety requirements of:

IEC 60601-1, EN 60601-1, IEC 61010-1, EN 61010-1, EN 61010-2-101, EN 60601-1-2, EN 61326.

SUMMARY OF OPERATION

This summary is intended only for quick reference and can not be taken as the substitute for the Owner's Manual. Please read the entire manual before you begin doing test.

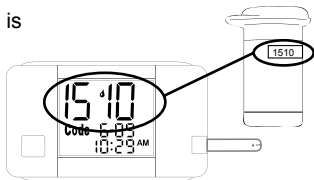
STEP 1 Insert Test Strip

The meter is automatically turned on and displayed room temperature and the code number.



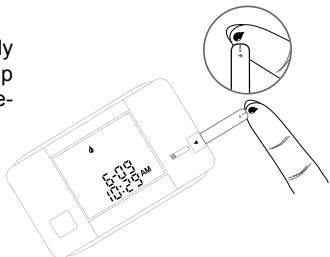
Match the code

Check if LCD displayed code number is same as the number on the strip vial.



STEP 2 Apply Sample

Hold the drop of blood and make it fully contact to the absorbent hole of test strip until the confirmation window is completely filled.



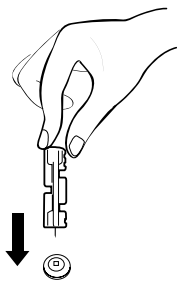
STEP 3 Obtain a Result

The meter starts to count down. Never try to add any blood into the absorbent hole even if you find that the confirmation window is not fulfilled. Discard the strip and retest with a new strip.



STEP 4 Remove the Lancet

Discard the used strip and the lancet according to your healthcare provider's instructions.



————— NOTE —————

————— NOTE —————

————— NOTE —————

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————— NOTE —————

————— NOTE —————